HAFB 97
12/31/1997

DEPARTMENT OF THE AIR FORCE

HEADQUARTERS 49TH FIGHTER WING (ACC)
HOLLOMAN AIR FORCE BASE, NEW MEXICO

U.S. AIR FORCE
1947 - 1997

MEMORANDUM FOR NEW MEXICO ENVIRONMENT DEPARTMENT
Attn: Mr. Benito Garcia
Chief, Hazardous & Radioactive Materials Bureau
P.O. Box 26110
Santa Fe, NM 87502

JAN 1998

FROM: 49 CES/CEV
550 Tabosa Avenue
Holloman AFB NM 88330-8458

SUBJECT: Report Addendum for Phase II Remediation of POL-Contaminated Sites and Oil/Water Separator (O/WS) and Waste Oil Tank (WOT) Removals

1. Holloman AFB (HAFB) submits the attached Final Report Addendum for Phase II Remediation of POL-Contaminated Sites and O/WS and WOT Removals and additional informational comments regarding the following letters: Approval of RCRA Facility Investigation (RFI) Report for 32 Table 3 Solid Waste Management Units (SWMUs) dated 23 Oct 97, and Approval of Phase II RFI Report for Table 1 SWMUs dated 4 Nov 97. First, the attached report discusses remedial activities conducted at several SWMUs including SWMUs 132, Building 21 Leach Field, and SWMU AOC-A, Open Concrete Containment Box. SWMU 118, Building 21 Pesticide Holding Tank is co-located with SWMUs 132 and AOC-A but was recommended for no further action (NFA) in the Table 2 RFI Report submitted in September 1997. SWMU 118 poses no threat to human health or the environment and is once again recommended for NFA.

2. Regarding SWMUs 39, 82, 104, 127, 197, AOC-P, and AOC-T, discussed in your letter, SWMUs 39 and 127 were previously approved for NFA in August 1997. AOC-P is discussed in the attached report and is recommended for NFA. AOC-T has been remediated via a soil vapor extraction system. A closure report for AOC-T will be submitted early next year. Modified RCRA caps were installed at SWMUs 82 and 197 in 1996 with the concurrence of the New Mexico Environment Department (NMED). In your 4 Nov 97 letter, these sites were deemed to pose a greater risk than was previously calculated. However, subsequent discussions revealed that the contaminant levels were significantly less (parts per billion versus parts per million) than stated in your 4 Nov 97 letter. HAFB is therefore again recommending NFA for SWMU 197 and conditional NFA (CNFA) for SWMU 82, the condition being long-term groundwater monitoring (LTM) which has been in place since 1995 when these sites were initially approved for modified RCRA caps. SWMU 104, also discussed in your 4 Nov 97 letter, has been investigated, characterized, and is currently undergoing LTM. The upgradient contamination is not associated with SWMU 104 and investigative efforts are already underway to characterize the potential source. This investigation is separate from SWMU 104 and will continue until completed. SWMU 104 is therefore recommended for CNFA, the condition being LTM.

3. SWMUs 5, 6, 26, 30, and 33 were recommended and approved for NFA in the Table 3 RFI Workplan submitted in 1994. These SWMUs, discussed in the workplan (Page 1-2, Section 1.2.1), passed pre-screening criteria set forth in the workplan and were, therefore, approved for NFA. Specifically, SWMUs 5 and 26 were removed several years ago and no evidence of leakage was found during the field screening. SWMUs 6 and 33 are not active O/WSs but instead are used as sediment traps. SWMU 30 is an active O/WS but was fairly new with no evidence of leakage. Based on the above information, these SWMUs were approved for NFA. HAFB requests these SWMUs be listed with those discussed in the attached report when approval of this report is given.

4. SWMU 141, Pad 9 Drainage Pit, was initially investigated in 1993 with subsequent sampling taking place in 1995. As documented in the Phase I Table 2 RFI Report (September 1997) and Preliminary Assessment and Site Inspection for Four Waste Sites (September 1993), submitted previously, no elevated radioactivity levels have been detected at the site. Total petroleum hydrocarbon levels were also less than 1000 parts per million in all vadose zone samples. The site has been fully characterized and has been shown to pose no threat to human health or the environment and is therefore recommended for NFA.

5. AOC-U, Lost River Basin, was investigated and reported as part of the Phase 1 Table 2 RFI. Your 23 October 97 letter requests borehole logs for AOC-U. As mentioned in HAFB's Response to NMED's Request for Supplementary Information, samples at AOC-U were taken with a hand auger as required in the workplan. Hand augers are generally used to sample to a depth of only 2 to 4 feet. When hand augers are used, the entire sample is collected for analysis; therefore, no boring logs are available. Soil characteristics, however, were discussed in the text of the report. No contaminants were found at levels approaching any risk-based trigger criteria and the risk screen conducted for AOC-U determined that the site posed no risk to human health or the environment. Therefore, AOC-U is recommended for NFA.

6. If you have any questions regarding these comments, or require additional information, please contact Warren Neff at (505) 475-5395.

Howard E. Moffitt

HOWARD E. MOFFITT
Deputy Base Civil Engineer

Attachment:
Final Addendum Report for Phase II Remediation of POL-Contaminated Sites and Oil/Water Separators and Waste Oil Tank Removals

RECEIVED
HAZARDOUS WASTE
PROGRAM

COMMENTS ON DRAFT FINAL PHASE II RFI REPORT

WARREN NEFF
49 CES/CEVR

Pg 4-5, Sec 4.1.5 A voluntary corrective action (VCA) was completed at SWMU 82, Building 131 Washrack, and SWMU 4, Building 131 Oil/Water. A modified cap was placed over both of these SWMUs in October 1996. Construction work plans were submitted to your office prior to initiation of field work. Decision Documents (DDs) were also approved by the New Mexico Environment Department in September 1995, detailing the recommended remedial alternative and the requirement for long-term monitoring (LTM) at SWMU 82.

Pg 4-45, Sec 4.6.5 A VCA was completed at SWMU 197, Former Entomology Shop in October 1996. Construction work plans were submitted to your office prior to initiation of field work. Decision Documents (DDs) were also approved by the New Mexico Environment Department in September 1995, detailing the recommended remedial alternative.

Pg 4-29, Sec 4.5.5 NFA is recommended for SWMU 171. A bioventing system, encompassing SWMU 39, Building 1092 O/WS, SWMU 127, Building 1092 Waste Oil Tank (WOT),
SWMU 135, Building 1092 O/WS Drainage Pit, SWMU 170, Fire Training Area #1, and the JP-4 Tank Area was constructed in June 1996 as a VCA. Workplans have been submitted to NMED and are currently under review. As with all SWMUs with remedial systems in place, confirmation borings will be conducted to verify that the NMED 1000 parts per million TPH standard has been achieved.

Pg 4-55, Sec 4.8.5 CNFA is recommended for AOC-T, the condition of NFA is the remediation of TRPH-contaminated soils to the Base-specific cleanup level. As part of a VCA, a soil vapor extraction system was installed at AOC-T in April 1995. The system has been operational since that time and has removed over 36,000 pound of total petroleum hydrocarbons (TPH) to date. Construction work plans were submitted prior to initiation of field activities. A DD was also submitted to NMED and approved in September 1995. As with all SWMUs with remedial systems in place, confirmation borings will be conducted to verify that the NMED 1000 parts per million TPH standard has been achieved.

Pg 4-16, Sec 4.3.5 CNFA is recommended for SWMU 104, the condition of NFA is the requirement of biennial groundwater monitoring for a period of 10 years. HAFB initiated a basewide LTM program in 1995 which established a biennial sampling program at numerous SWMUs. SWMU 104 has been added to the basewide LTM program and is scheduled to be sampled for volatile and semi-volatile organic compounds this summer. HAFB has already established institutional controls at SWMU 104. This site has been annotated in the Base Comprehensive Plan and land surrounding this site is managed accordingly. SWMU 104 is somewhat remote but HAFB will place signs designating this site off-limits to unauthorized personnel. HAFB is conducting a separate investigation to determine the contaminant source upgradient of SWMU 104.

Pg 4-49, Sec 4.7.5 CNFA is recommended for AOC-P, the condition of NFA is remediation of TRPH-contaminated soils to the Base-specific cleanup level. A VCA was completed at AOC-P, Building 301 Fuel Tank Leaks, in April 1997. Confirmation samples have been taken and the results will be submitted as part of an addendum to HAFB's Final Closure Report for Phase II Remediation of POL-Contaminated Sites and O/WSs and WOT Removals. This report is scheduled for submittal to NMED in August 1997. A Class 3 permit modification request was submitted to EPA Region VI in 1993 recommending site closure for AOC-P.

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Headquarters, Air Combat Command
Langley Air Force Base,
Virginia

Final Closure Report Addendum for Phase II Remediation of POL-Contaminated Sites and Oil/Water Separator and Waste Oil Tank Removals

Holloman AFB
Alamagordo, NM

December 1997

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49 CES/CEVR
Holloman Air Force Base
New Mexico

FINAL CLOSURE REPORT ADDENDUM
FOR PHASE II
REMEDIATION OF POL-CONTAMINATED SITES AND
OIL/WATER SEPARATOR AND WASTE OIL TANK REMOVALS
HOLLOMAN AIR FORCE BASE, NEW MEXICO

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Under Contract No. DACW45-94-D0003

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U.S. Army Corps of Engineers
Omaha District
Omaha, Nebraska

December 1997

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LIST OF ACRONYMS

AFB	Air Force Base
AOC	Area of Concern
ASTM	American Society for Testing and Materials
Base	Holloman AFB
bgl	Below Ground Level
BTEX	Benzene, Toluene, Ethylbenzene, and Total Xylenes
°C	Degrees Celsius
CE	Civil Engineering
CERCLA	Comprehensive Environmental Response, Compensation and Liability Act
CES	Civil Engineering Squadron
CNFA	Conditional No Further Action
CQC	Contractor Quality Control
cu yds	cubic yards
DQCR	Daily Quality Control Report
DPT	Direct Push Technology
EPA	U.S. Environmental Protection Agency
°F	Degrees Fahrenheit
FSAP	Field Sampling and Analysis Plan
ft	Feet
FWENC	Foster Wheeler Environmental Corporation
GTEL	NEI/GTEL Environmental Laboratories
HSWA	Hazardous and Solid Waste Amendments
IDW	Investigation-Derived Waste
IRP	Installation Restoration Program
LCS	Laboratory Control Sample
LEL	Lower Explosive Limit
LNAPL	Light Nonaqueous Phase Liquid
mg/kg	Milligrams Per Kilogram
mg/L	Milligrams Per Liter
MR	Missouri River

LIST OF ACRONYMS (continued)

MS	Matrix Spike
MSD	Matrix Spike Duplicate
NFA	No Further Action
NMED	New Mexico Environment Department
NMEIB	New Mexico Environmental Improvement Board
O_2	Oxygen
OCP	Organochlorine Pesticide
O/WS	Oil/Water Separator
PARCC	Precision, Accuracy, Representativeness, Comparability, and Completeness
PCB	Polychlorinated Biphenyl
PCS	Petroleum-Contaminated Soil
PID	Photoionization Detector
POL	Petroleum, Oils, and Lubricants
PPE	Personal Protective Equipment
ppm	Parts Per Million
QAPP	Quality Assurance Project Plan
QA/QC	Quality Assurance/Quality Control
Rhino Environmental	Rhino Environmental Services, Inc.
RBC	Risk Based Concentration
RCRA	Resource Conservation and Recovery Act
RFA	RCRA Facilities Assessment
RFI	RCRA Facility Investigation
RI	Remedial Investigation
SARA	Superfund Amendments and Reauthorization Act
SSHP	Site Safety and Health Plan
SVOC	Semivolatile Organic Compound
SWMR	Solid Waste Management Regulation
SWMU	Solid Waste Management Unit
TAL	Target Analyte List
TCLP	Toxicity Characteristic Leaching Procedure
TDS	Total Dissolved Solids
TERC	Total Environmental Restoration Contract

LIST OF ACRONYMS (continued)

TRPH	Total Recoverable Petroleum Hydrocarbons
TPH	Total Petroleum Hydrocarbons
USACE	U.S. Army Corps of Engineers
UST	Underground Storage Tank
USTB	Underground Storage Tank Bureau
USTR	Underground Storage Tank Regulation
VOC	Volatile Organic Compound
µg/kg	Micrograms Per Kilogram
µg/L	Micrograms Per Liter
WAD	Work Authorization Directive
WOT	Waste Oil Tank

1.0 INTRODUCTION

This report documents the remediation of soil contaminated with petroleum, oils, and lubricants (POL) and the removal of oil/water separators (O/WSs) and a waste oil tank (WOT) at Holloman Air Force Base (AFB), Alamogordo, New Mexico. These activities were conducted for the U.S. Army Corps of Engineers (USACE), Omaha District, by Foster Wheeler Environmental Corporation (FWENC) and Indian Fire and Safety under the Total Environmental Restoration Contract (TERC) No. DACW45-94-D0003, Delivery Order 11, Work Authorization Directive (WAD) 3.

Field work associated with these activities began in January 1996 and was completed in July 1997. All activities were conducted in accordance with the Phase I Project Plans for Remediation of POL-Contaminated Sites and O/WS Removals, which include the work plan, quality assurance project plan (QAPP), field sampling and analysis plan (FSAP), and contractor quality control (CQC) plan (EBASCO 1995a), the Basewide site safety and health plan (SSHP) (EBASCO 1995b), and the Phase II work plan (EBASCO 1995c).

1.1 BACKGROUND

Holloman AFB, or the Base, is subject to the requirements of several federal environmental regulatory programs, all of which require the restoration of sites suspected of containing contamination. On the basis of previous investigations conducted at the Base, some of the sites require remedial action. Brief descriptions of the salient regulatory programs are presented below.

Under a Resource Conservation and Recovery Act (RCRA) Part B permit, Holloman AFB operates an on-site storage facility for currently generated hazardous wastes. As a holder of such a facility operating permit, the Base is subject to RCRA corrective action program policies. The Hazardous and Solid Waste Amendments (HSWA) portions of the RCRA permit require Holloman AFB to investigate certain solid waste management units (SWMUs) identified in the 1988 RCRA Facilities Assessment (RFA). The 113 SWMUs listed in Tables 1, 2, and 3 of the

permit must comply with the approved schedules for implementation of the Base's corrective action program. The Base SWMUs have been divided into three separate tables based on their perceived risk to human health and the environment. SWMUs with the highest potential risk were included in Table I while SWMUs believed to pose reduced risks were placed in Tables 2 and 3.

In addition to RCRA regulatory requirements, the Base must also comply with the Installation Restoration Program (IRP), which was established to investigate past hazardous waste disposal sites at Department of Defense installations and generally follows the provisions documented in the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) and the Superfund Amendments and Reauthorization Act (SARA). There are 61 identified IRP sites at Holloman AFB. Holloman AFB has integrated these two programs to reduce duplication of effort, an approach that has been endorsed by both the U.S. Environmental Protection Agency (EPA), Region VI, and the New Mexico Environment Department (NMED).

With regard to this project, soil contaminated with POL exceeding applicable Base remediation standards was identified during previous RCRA Facility Investigations (RFIs) and/or IRP investigations conducted at Holloman AFB at three Table 1, three Table 2, and five Table 3 sites (Radian 1992, 1994, 1995a, 1995b). To fulfill the requirements of Holloman AFB's HSWA portion of the RCRA Part B permit, five O/WSs, one WOT, two electrical substations, one site contaminated by a leaking fuel tank, one drainage pit, and one site containing a transformer pad and six generator pads were earmarked for restoration. The Base elected to remove all inactive or abandoned O/WSs and WOTs to prevent future releases. Also, soil containing contaminant concentrations exceeding applicable closure standards was excavated and removed. Excavations, O/WS and WOT removals, and restorations were conducted at the following sites:

- Table 1 SWMUs: Excavation of contaminated soil
  - Area of Concern-G (AOC-G) (IRP Site DP-43): Atlas Electrical Substations
  - SWMU 107 (IRP Site OT-11): Main Base Electrical Substation
  - AOC-P (IRP Site OT-44): Building 301 Fuel Tank Leaks
- Table 2 SWMUs: Removal of O/WS, WOT, and Contaminated Soil

- SWMU 123: Building 704 WOT
- SWMUs 132 and AOC-A (IRP Site OT-16): Former Drainage Pit, and Transformer and Generator Pads at the Former Building 21 Entomology Shop, respectively

- Table 3 SWMUs: Removal of O/WSs and Soil Contaminated with POL
  - SWMU 3: Building 130 O/WS
  - SWMU 8: Building 231 O/WS
  - SWMU 14: Building 306 O/WS
  - SWMU 23: Building 800 O/WS
  - SWMU 28: Building 822 O/WS

The locations of Tables 1, 2, and 3 SWMUs subject to remediation activities under this program and presented in this report are indicated on the contaminated site location map (Figure 1-1). Individual site maps are presented in the respective sections pertaining to these SWMUs.

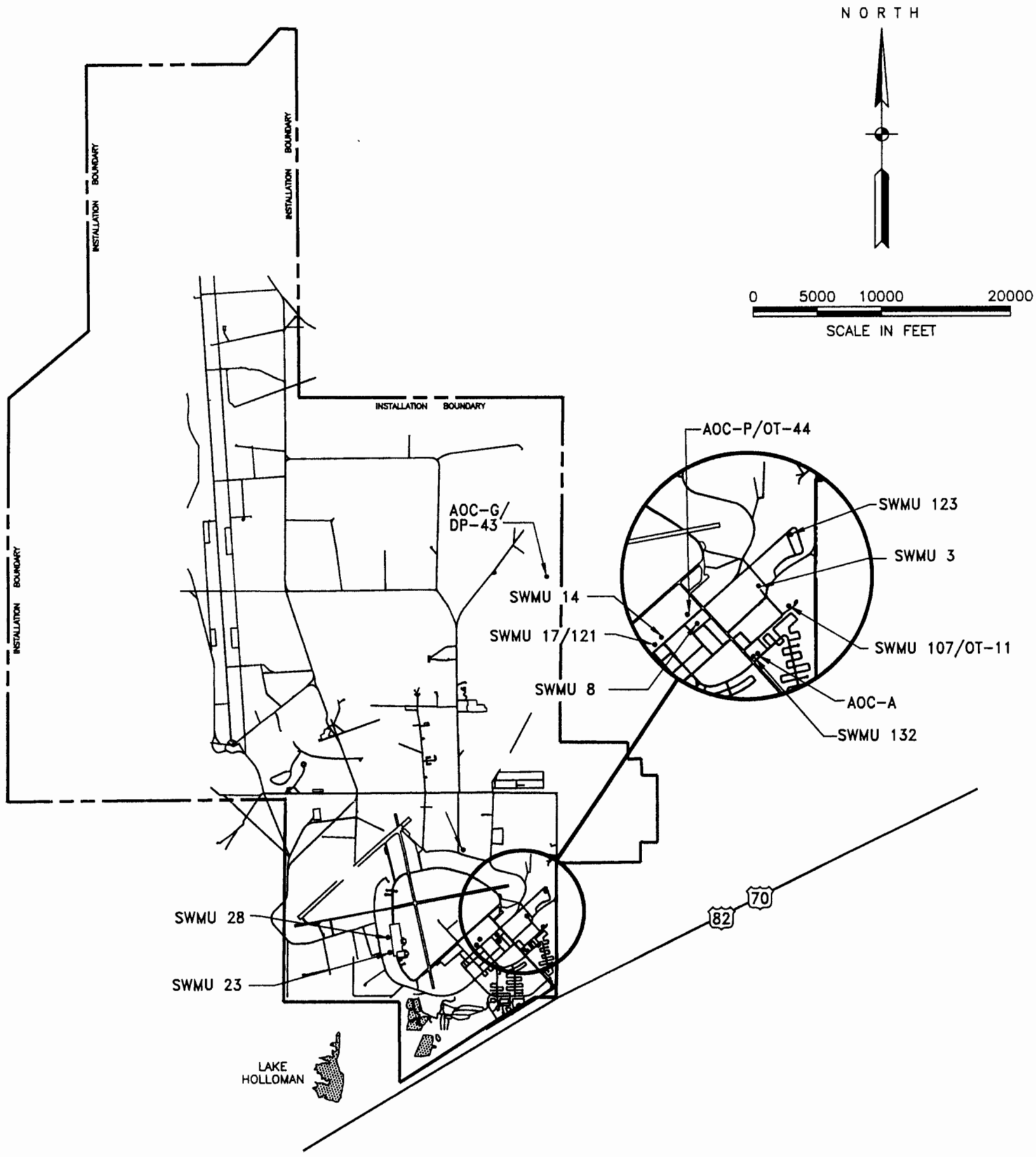
1.2 DOCUMENT ORGANIZATION

The remainder of this document is organized in the following manner:

- Procedures common to all activities such as sampling and analysis, health and safety monitoring, site restoration, and waste disposal are provided in Section 2.0.
- Sections 3.0 through 14.0 include descriptions of the site-specific investigation, removal and/or reclamation activities, closure sample locations, and investigation results for each site. Waste manifests/disposal receipts, laboratory analytical reports, and USACE site review closure reports are referenced in each section and presented in the appendices.

1.3 PROJECT OBJECTIVES

The purpose of this project is to achieve site closure objectives, either through removal of petroleum-contaminated soil (PCS) at the Tables 1, 2, and 3 SWMUs or by endorsement of the No Further Action (NFA) conclusion following site closure sampling. The volume of overexcavated soil was minimized using on-site analytical testing and field-screening techniques. By combining multiple sites into a single project, the entire remediation process, which includes



SITES

SWMU 3	BUILDING 130 O/WS
SWMU 8	BUILDING 231 O/WS
SWMU 123	BUILDING 704 WOT
AOC-G/DP-43	ATLAS ELECTRICAL SUBSTATIONS
SWMU 107/OT-11	MAIN BASE ELECTRICAL SUBSTATION
AOC-P/OT-44	BUILDING 301 FUEL TANK LEAKS
SWMU 14	BUILDING 306 O/WS
SWMU 23	BUILDING 800 O/WS
SWMU 28	BUILDING 822 O/WS
SWMU 132	FORMER DRAINAGE PIT
SWMU 17/121	BUILDING 316 O/WS AND WOT
AOC-A	GENERATOR PADS AT THE FORMER BUILDING 21 ENTOMOLOGY SHOP

Prepared for:
U.S. Army Corps of Engineers
for Holoman A.F.B.

Prepared December 1995

Figure 1-1

Phase II POL - Contaminated Site Location Map

Holloman A.F.B., New Mexico
Prepared by: Foster Wheeler Environmental Corp.

A1252-ZZ 11/02/1995

plan preparation, construction mobilization, sampling and analysis, project reporting, and disposal and/or treatment of soil, sludge, liquids, and debris was streamlined and costs were minimized.

1.4 TECHNICAL APPROACH

The RFIs/remedial investigations (RIs) previously conducted at the identified Tables 1, 2, and 3 SWMUs established that no constituents exceeding site-screening levels or established background levels are present in soil with the exception of total petroleum hydrocarbons (TPH) (Radian 1992, 1994, 1995a, 1995b).

This report includes the rationale for a recommendation that the EPA, Region VI, distinguish those sites in which soil contaminants do not exceed regulatory standards as sites requiring NFA. In addition, Class 3 RCRA permit modifications will be submitted to the EPA for these sites in order to remove them from the Base's Part B permit. During field operations, several Tables 2 and 3 O/WSs and one WOT were removed. Following O/WS and WOT removal and soil excavation, soil samples were collected from each site excavation to determine if all soil exceeding Base cleanup standards was recovered. Removal of O/WSs, the WOT, and contaminated soil at sites AOC-G, AOC-P, and SWMUs 3, 8, 107, and 123 was initially performed during the Phase I remediation of POL-contaminated sites and O/WS and WOT removals; however, these sites required additional excavation of soil contaminated with POL in excess of Base cleanup criteria.

1.5 REGULATORY ACTION LEVELS

Regulatory action levels applicable to soil and groundwater affected by POL at Holloman AFB as established by the NMED are as follows:

- POL-contaminated soil, TPH less than 1,000 milligrams per kilogram (mg/kg) and benzene less than 25 mg/kg
- Soil containing polychlorinated biphenyls (PCBs), less than 1.4 mg/kg
- Removal of light nonaqueous phase liquids (LNAPL) from groundwater

Due to the high total dissolved solids (TDS) concentrations in groundwater at the Base, there are no applicable dissolved groundwater standards. However, the EPA and the NMED require Holloman AFB to delineate the nature and extent of sorbed and dissolved-phase compounds present in the subsurface that exceed established background levels or risk-based levels.

All Tables 1, 2, and 3 soil samples were analyzed for total recoverable petroleum hydrocarbons (TRPH). AOC-G (IRP site DP-43), SWMU 132, and SWMU 107 (IRP site OT-11) were also screened for pesticides and/or PCBs. Additional analyses were performed on soil samples collected from SWMU 3 and SWMU 8. Soil from these sites was analyzed for PCBs (SWMU 3), metals, volatile organic compounds (VOCs), and semivolatile organic compounds (SVOCs). Soil samples from SWMUs 8 and 123 were also analyzed for benzene, toluene, ethylbenzene, and total xylenes (BTEX). The analytical methods used at each site were determined by analysis of historical data and process knowledge (Radian 1992, 1994, 1995a, 1995b).

For the Tables 1, 2, and 3 sites, detected levels of TRPH, metals, VOCs, and SVOCs in soil were screened as follows:

- TRPH concentrations in soil were compared to the Basewide TRPH criteria of 1,000 mg/kg established by the NMED.
- VOC, SVOC, and metals results for soil samples were compared to EPA Region VI risk-based concentration (RBC) levels for industrial land use.
- PCB results for soil samples were compared to EPA Region VI risk-based levels for residential land use.

New Mexico Environmental Improvement Board/Underground Storage Tank (UST) Regulations (NMEIB/USTR) Part I, Section 103 (C), Parts II through XIV of the NMEIB/USTR are not applicable to wastewater treatment tanks, sumps, hydraulic lift tanks, and any UST system with a capacity of 110 gallons or less. In addition, per NMEIB/USTR Part I, Section 102 (CCC), the term UST does not apply to septic tanks, surface impoundments, pits, ponds or lagoons, stormwater or wastewater collection systems, flow-through process tanks, or related piping. Therefore, NMEIB/USTR requirements were not applicable to any of the tanks or separators removed because of their use, size, or construction.

2.0 SCOPE OF WORK

Site restoration activities and O/WS and WOT removals related to the Phase II remediation of sites contaminated with POL began in January 1996 and were completed in April 1997. Site restoration activities include the extraction of O/WS and WOT liquids and sludges, O/WS and WOT removals and disposal, soil excavation and disposal, sampling and analysis, site restoration, site safety and health monitoring, and documentation. These activities are elaborated on in the following sections.

Soil contaminated with POL and construction debris was transported to the Rhino Environmental Services, Inc. (Rhino Environmental) landfarm facility and the Lincoln/Otero County Landfill, respectively, for disposal. Final inspections were performed by an USACE representative to identify any deficiencies requiring action prior to site closeout. The USACE site review closure reports are included in Appendix C.

2.1 PUMPABLE LIQUIDS AND SLUDGE

Pumpable liquids, sludge, and other debris were removed from each O/WS and the WOT by the Holloman AFB 49 Civil Engineering Squadron/Civil Engineering (CES/CE) O/WS Manager, Mr. Darvin St. John, prior to initiation of any removal activities.

2.2 OIL/WATER SEPARATORS AND WASTE OIL TANK

After pumpable liquids and sludge were removed, the lines associated with the O/WSs and WOT were cut and the units, depending on size, were broken into manageable pieces in situ or removed intact with a backhoe. The lines were then either spliced for future use or capped for abandonment.

Debris associated with piping, O/WSs, the WOT, and pavement was decontaminated, as necessary, and stored on site until eventual transport and disposal at the Lincoln/Otero County Landfill.

2.3 SOIL EXCAVATION AND DISPOSAL

Soil was visually inspected for staining, and headspace readings were taken using a photoionization detector (PID). If PID readings were greater than 500 parts per million (ppm), or the soil was visually determined to be contaminated, an on-site immunoassay analysis was performed to determine if TPH concentrations exceeded 1,000 mg/kg. If immunoassay results were greater than 1,000 mg/kg, soil was stockpiled on a liner within a bermed area and covered to prevent migration caused by wind or precipitation. Soil samples were collected from the stockpile and sent to an off-site laboratory for analysis of analytes specified in the work plan and for confirmation of soil contaminant concentrations. Upon receipt of the laboratory results, clean soil was spread over the site and contaminated soil transported off site to the Rhino Environmental facility for disposal. Waste disposal manifests are included in Appendix A.

2.4 SAMPLING AND ANALYSIS

Three sample types are presented in the following sections. These sample types include site closure, soil stockpile, and quality assurance/quality control (QA/QC) samples. Site closure samples were collected from the sides and bottom of each excavation to evaluate if closeout/NFA requirements had been met. One soil stockpile sample was collected for every 100 cubic yards (cu yds) of soil suspected of containing contaminants in excess of Base cleanup criteria. QA/QC samples were analyzed to verify the accuracy and reliability of laboratory results. Laboratory analytical results are included in Appendix B.

2.4.1 Site Closure Samples

In-place soil confirmation samples for site closure objectives were collected from excavations at all sites. Field screening of soil was conducted using headspace measurements and an immunoassay field-screening technique for TPH. In accordance with the project plans, in-place soil samples were collected from four lateral locations (usually the corners of the excavation) and from the bottom of the excavation to characterize the soil left in place at each excavation. In-place soil samples were collected using a backhoe bucket and stainless steel tools. The sample

was transferred to a clean stainless steel bowl. The sample aliquot for VOC analysis was then transferred into 4-ounce glass jars with Teflon-lined lids. The remaining sample was then mixed thoroughly with a stainless steel spoon and transferred into 8-ounce glass jars with Teflon-lined lids. The samples were labeled in accordance with FSAP requirements, placed in a cooler at 4 degrees centigrade (°C) (a trip blank was included with samples requiring VOC analysis), and transported to NEI/GTEL Environmental Laboratories (GTEL), in Wichita, Kansas, via overnight courier under strict chain-of-custody.

Sample analytical requirements were specified in the FSAP and were based on previous investigation results. Soil samples from SWMU 3 were analyzed for VOCs, SVOCs, metals, and TRPH. Soil from SWMU 8 was analyzed for BTEX, metals, VOCs, SVOCs, and TRPH. SWMU 132 soil was analyzed for PCBs, pesticides, and TRPH. Soil samples collected from SWMU 107 and AOC-G were analyzed for PCBs and TRPH. SWMU 123 soil samples were analyzed for BTEX and TRPH. Soil from other sites was analyzed for TRPH only. TRPH, BTEX, VOCs, SVOCs, and PCBs and organochlorine pesticides (OCPs) were analyzed by EPA Methods 9071/418.1, 8021A, 8240B, 8270B, and 8080/8081, respectively. Metals were analyzed by EPA Methods 6010A, 7060, 7421, 7471A, 7740, and 7841.

2.4.2 Soil Stockpile Samples

As soil was excavated, it was segregated into clean and contaminated stockpiles. The criteria for segregation were odor, VOC screening results obtained using a PID, and visual and other field screening determinations made by field personnel as discussed in the FSAP. Stockpiled soil samples were collected in accordance with the FSAP.

Contaminated and clean soil stockpiles were analyzed on site for TPH by immunoassay technique Method 4030, using the ENSYS® field screening kit. Based upon the results of the field test, soil with less than 1,000 mg/kg TPH was returned to the excavation as clean backfill. Soil with TPH greater than 1,000 mg/kg was stockpiled on a bermed liner and covered to await further waste characterization and off-site disposal.

The analytical samples were labeled in accordance with the FSAP, placed in a cooler at 4°C, and transported to GTEL via overnight courier under strict chain-of-custody. Contaminated stockpile soil samples were analyzed at the laboratory in accordance with the QAPP. Analyses performed included Toxicity Characteristic Leaching Procedure (TCLP) metals, VOCs, and SVOCs; reactive cyanide and sulfide; paint filter liquids, flash point; and corrosivity.

2.4.3 Quality Assurance/Quality Control (QA/QC) Sampling

Split duplicate samples, matrix spike (MS) samples, matrix spike duplicate (MSD) samples, and trip blanks were collected for QA/QC evaluation as required by the QAPP. Split duplicate samples of in situ soil confirmation were submitted to GTEL and the USACE Missouri River (MR) Laboratory in Omaha, Nebraska. Split duplicate samples were collected in accordance with the FSAP and QAPP. QA/QC split duplicate samples were collected at a frequency of approximately 5 percent. These samples were collected and analyzed to determine the variability of results as influenced by sampling procedures, sample handling, laboratory analysis, and sample matrix heterogeneity.

MS and MSD samples were extra aliquot samples that were collected and analyzed to determine the ability of analytical procedures to quantify the level of specific constituents present in the sample due to the sample medium. MS and MSD samples were collected and analyzed in accordance with the QAPP. MS, MSD, and other QA/QC sample results are presented in Section 15.0. Trip blank samples accompanied samples being analyzed for VOCs to determine if cross contamination of samples occurred during shipment. Trip blank results are provided in Appendix C.

2.5 SITE RESTORATION

Each site was restored by backfilling, compacting the backfill, and paving any disturbed areas with like material. Backfilling, concrete surfacing, and asphalt paving were performed in accordance with the project plans. The USACE project engineer was consulted and approval was obtained when site conditions required any deviation from the project plans.

Backfilling of each excavation was performed with either clean previously excavated soil (less than 1,000 mg/kg TRPH) or imported materials compatible with the specifications for material delinated in the project plans. Self-compacting gravels were placed in excavations in remote areas. Native fill was used next to structures or beneath pavement to avoid subsidence. This backfill was placed in each excavation in lifts and compacted using motorized compactors.

A compaction force equivalent to 90 percent of Standard Proctor was applied to each lift underlying those areas requiring repaving. A concrete cutter was used to square off the rough edges of the existing pavement prior to application of new adjoining pavement. At least 6 inches of subbase material was placed beneath asphalt paving surfaces, as stipulated in the work plans (EBASCO 1995a, 1995c). New pavement was installed with a 4-inch asphaltic base and a 4-inch asphaltic topping. Soil compaction and concrete tests results will be submitted with the final construction submittal document.

All disturbed site features, such as fencing, were restored to their original conditions. Adjacent pavement was swept and/or pressure washed to restore the site to a condition equivalent to or better than site conditions before the commencement of site activities.

2.6 DAILY QUALITY CONTROL REPORTS

Daily quality control reports (DQCRs) were submitted to the USACE project engineer on a daily basis. The daily report documented site activities, labor and materials used, testing performed, and problems encountered during each work day.

2.7 SITE SAFETY AND HEALTH

All work was performed in accordance with the approved Basewide SSHP. Air monitoring was conducted during POL remediation to ensure worker safety. Self-compacting gravel was used to backfill excavations up to at least 5 feet (ft) below grade. This practice prevented the need for shoring and for taking other health and safety precautions (e.g., those required for confined space entry) associated with compacting backfill in deep excavations. Work zones were defined and barricades were positioned to limit site access to authorized personnel only. Appropriate

personal protective equipment (PPE) was donned during POL-remediation-related activities such as sample collection.

Air in the breathing zone was monitored during excavation with a lower explosive limit/oxygen (LEL/O_2) meter, PID, and drager tubes to ensure that vapors from excavated soil did not exceed the action levels specified in the Basewide SSHP. Dust suppression during excavation was accomplished by misting the excavation with water as needed.

3.0 SITE RESTORATION AT SWMU 3, BUILDING 130 O/WS

SWMU 3, Building 130 O/WS, is located south of demolished Building 130. The O/WS, which received rinsate-containing oils, detergents, and fuels from an equipment washrack located adjacent to the unit, was removed during Phase I POL restoration activities. Soil sampling was not conducted during the Table 3 RFI because the unit was inactive and scheduled for removal (Radian 1994). Because no RFI sampling was performed, soil samples were collected and analyzed for TRPH, Toxic Characterization Leaching Procedure (TCLP) constituents (metals, VOCs, and SVOCs), and metals during Phase I POL restoration activities (Figure 3-1). TRPH results were greater than 1,000 mg/kg in four of five closure samples. VOCs, SVOCs, and metals were detected in several samples; however, concentrations were below Base cleanup criteria.

3.1 FIELD ACTIVITIES

Landscaping rock was removed and stockpiled. The area was excavated, with groundwater encountered at approximately 4 ft during excavation. Field screening was used to segregate the excavated soil into either a clean or a contaminated stockpile. An abandoned 6-inch pipe was removed and the ends grouted, and two unknown O/WSs were found and removed. The separators and pipe were decontaminated and cut into small pieces for disposal. The excavation was backfilled and compacted, the landscaping rock respread, and the fences repaired. Approximately 931.1 cu yards (1,257 tons) of TRPH-contaminated soil was transported off site to the Rhino Environmental facility for disposal.

3.2 SAMPLING AND ANALYSIS

Representative samples of in-place and stockpiled soil were collected during restoration activities. The soil samples were collected and analyzed in accordance with Section 2.4 (Sampling and Analysis), the FSAP (Ebasco 1995a), and the Closure Report for Phase II Remediation of POL-Contaminated Sites (FWENC 1997). Laboratory analytical results from GTEL are provided in Appendix B. Table 3-1a summarizes the analytical results for the soil site

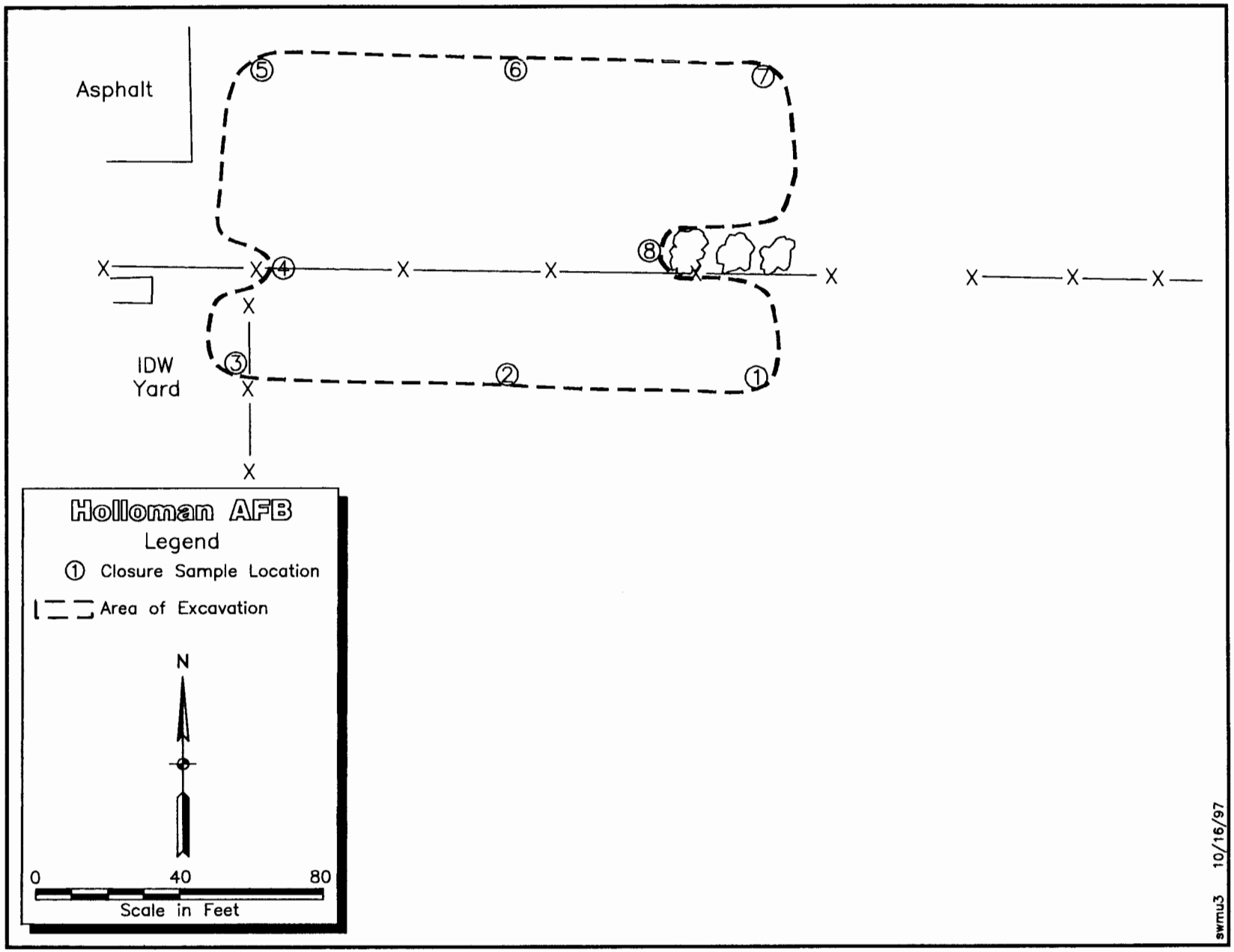


Figure 3–1. SWMU 3, Building 130 O/WS Site Map

Table 3-1a

Summary of Site Closure Sample Analytical Results for Soil at SWMU 3, Building 130 O/WS

Sample I.D.	SWMU3-4-1	SWMU3-4-2	SWMU3-4-3	SWMU3-4-4	SWMU3-4-5	SWMU3-4-6	SWMU3-4-7	SWMU3-4-8
Figure I.D.	1	2	3	4	5	6	7	8
Date Sampled	9/19/96	9/19/96	9/19/96	9/19/96	9/19/96	35327.0	9/19/96	9/19/96
TRPH by Method 418.1 (mg/kg)	<20	24	<20	<20	<20	<20	<20	<20
VOCs by Method 8240B Methylene chloride (25,000 µg/kg)	10	12	<10	<10	<10	<10	<10	<10
SVOCs by Method 8270B (µg/kg)	ND	ND	ND	ND	ND	ND	ND	ND
Metals by Method 6010A (mg/kg) Aluminum[1] (77,000)	1,100	5,000	6,700	9,100	3,900	4,300	1,200	4,600
Barium[1] (5,300)	22	61	44	79	37	32	<20	40
Chromium[3] (230)	<3.0	4.7	6.4	7.7	4.3	4.8	<3.0	4.1
Copper (63,000)	<2.5	4.2	5.6	8	2.6	4.4	3.6	4.1
Manganese (8,300)	18	78	110	150	34	82	96	59
Vanadium (12,000)	6.4	9.9	12	14	18	10	9.9	9.1
Zinc[1] (23,000)	3.8	14	19	25	9.9	15	11	13
Metals by Method 7060 (mg/kg) Arsenic[2] (2.0)	1.8	1.5	1.6	2	1.7	1.4	<1.0	1.5
Metals by Method 7421A Lead (2,000 mg/kg)	1.6	3.1	4.4	6.2	2.7	6.4	2.9	3

Table 3-1b
Summary of Site Closure
Sample Analytical Results
for Water at SWMU 3

Sample ID	SWMU3-W-01
Date Sampled	9/13/96
VOCs by Method 8021A Benzene (µg/L)	<0.5
Toluene (µg/L)	<1.0
Ethylbenzene (µg/L)	<1.0
Xylenes (total) (µg/L)	<2.0

Notes:
Shading denotes site closure samples
< = Constituent not detected above laboratory quantitation limit
() = EPA Region VI risk-based criteria for industrial land use
ND = Not detected
NP = Not present
1 = Risk-based value above expected saturation point; value shown is residential land use risk-based concentration
2 = Represents carcinogenic risk-based concentration
3 = Represents risk-based concentration for chromium VI

closure samples. A groundwater sample was also collected; analytical results are presented in Table 3-1b. Analytical results for the soil stockpile samples are provided in Table 3-2.

3.2.1 Site Closure Samples

Eight soil closure samples were collected from the side walls of the excavation (Figure 3-1). No samples were collected from the bottom of the excavation because groundwater was encountered. The closure samples were analyzed for TRPH, metals, and selected VOCs and SVOCs. Analytical results, presented in Table 3-1a, represent in-place soil conditions upon completion of excavation and did not exceed Base cleanup criteria. The highest TRPH concentration, 24 mg/kg, detected in sample SWMU 3-4-2, was well below the 1,000 mg/kg standard. The other seven samples revealed TRPH concentrations below the laboratory quantitation limit. Analytical results for the groundwater sample indicate BTEX concentrations were below the associated laboratory quantitation limits.

3.2.2 Soil Stockpile Samples

Eleven soil stockpile samples were collected from this site and analyzed for TRPH, PCBs, TCLP constituents (VOCs, SVOCs, and metals), VOCs (BTEX), lead, and RCRA characteristics. All samples exceeded the Base cleanup criteria for TRPH of 1,000 mg/kg, ranging from 2,000 mg/kg to 9,300 mg/kg (Table 3-2). Detections of BTEX and metals were all below Base cleanup criteria.

3.3 SITE RESTORATION

The site was backfilled, compacted, and cleaned and landscaping rock was replaced. After restoration was complete, a USACE representative performed a final site inspection. A copy of the site inspection report is included in Appendix C.

Table 3-2
Summary of Soil Stockpile Sample Analytical Results at SWMU 3, Building 130 O/WS
Page 1 of 2

Sample I.D.	SWMU3-SP01	SWMU3-SP02	SWMU3-SP03	SWMU3-SPO4	SWMU3-SP05	SWMU3-06
Date Sampled	9/19/96	9/19/96	9/19/96	9/19/96	9/19/96	9/19/96
TRPH by Method 418.1 (mg/kg)	5,800	4,400	4,400	9,300	4,500	8,900
PCBs by Method 8081 (µg/kg) Aroclor 1242	<10	20	<10	<10	<10	<10
Aroclor 1254	<10	16.0	<10	<10	<10	<10
VOCs by Method 1311/8240 (mg/L)	ND	ND	ND	ND	ND	ND
SVOCs by Method 1311/8270B (mg/L)	ND	ND	ND	ND	ND	ND
VOCs by Method 8021A Benzene (mg/kg)	0.44	<0.05	<0.05	0.42	<0.05	<0.05
Toluene (mg/kg)	<0.10	<0.10	<0.10	0.28	<0.10	0.10
Ethylbenzene (mg/kg)	0.16	0.41	0.15	0.62	<0.10	<0.10
Xylenes (total) (mg/kg)	0.69	11	0.51	19	3.9	6.8
Metals by Methods 1311/6010A/7470 (mg/L)	ND	ND	ND	ND	ND	ND
Metals by Method 9010A Total Cyanide (mg/kg)	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Metals by Method 7421 Lead (2,000 mg/kg)	7.9	13	6.8	5.7	5.9	9.2
Paint Filter by Method 9095	NP	NP	NP	NP	NP	NP
Flash Point by Method ASTM D93 (°F)	>200	>200	>200	>200	>200	>200
pH by Method 9045A	7.6	7.6	7.7	7.6	7.1	7.5
Reactive Sulfide by Method SW846 Ch #7 (mg/kg)	<25	<25	<25	<25	<25	<25

Notes:
< = Constituent not detected above laboratory quantitation limit
() = EPA Region VI risk-based criteria for industrial land use
ND = Not detected
NP = Not present

Table 3-2
Summary of Soil Stockpile Sample Analytical Results at SWMU 3, Building 130 O/WS
Page 2 of 2

Sample I.D.	SWMU3-SP07	SWMU3-SP08	SWMU3-SP09	SWMU3-SP10	SWMU3-SP11
Date Sampled	9/19/96	9/19/96	9/20/96	9/21/96	9/22/96
TRPH by Method 418.1 (mg/kg)	7,900	4,500	2,000	4,700	3,900
PCBs by Method 8081 (µg/kg) Aroclor 1242	<10	<10	<10	<10	<10
Aroclor 1254	<10	<10	<10	<10	<10
VOCs by Method 1311/8240 (mg/L)	ND	ND	ND	ND	ND
SVOCs by Method 1311/8270B (mg/L)	ND	ND	ND	ND	ND
VOCs by Method 8021A Benzene (mg/kg)	0.17	<0.05	0.069	<0.05	<0.05
Toluene (mg/kg)	0.60	0.11	0.19	0.16	<0.10
Ethylbenzene (mg/kg)	2.8	<0.10	0.95	<0.10	<0.10
Xylenes (total) (mg/kg)	9.2	3.4	2.6	3.2	2.0
Metals by Methods 1311/6010A/7470 (mg/L)	ND	ND	ND	ND	ND
Metals by Method 9010A Total Cyanide (mg/kg)	<2.0	<2.0	<2.0	<2.0	<2.0
Metals by Method 7421 Lead (2,000 mg/kg)	8.4	11	6.6	7.2	8.3
Paint Filter by Method 9095	NP	NP	NP	NP	NP
Flash Point by Method ASTM D93 (°F)	>200	>200	>200	>200	>200
pH by Method 9045A	7.6	7.6	7.7	7.7	7.0
Reactive Sulfide by Method SW846 Ch #7 (mg/kg)	55	<25	<25	<25	<25

Notes:
< = Constituent not detected above laboratory quantitation limit
() = EPA Region VI risk-based criteria for industrial land use
ND = Not detected
NP = Not present

3.4 WASTE HANDLING AND DISPOSAL

The piping and O/WSs were decontaminated, broken into manageable pieces, and disposed as a solid waste at the Lincoln/Otero County Landfill. TRPH-contaminated soil (1,257 tons) was transported by Rhino Environmental to their land farm in Newman, New Mexico.

3.5 CONCLUSIONS AND RECOMMENDATIONS

The O/WSs were removed, 931.1 cu yds (1,257 tons) of soil was excavated and removed, and all site closure samples contained less than 1,000 mg/kg TRPH. NFA is recommended for this site.

4.0 SITE RESTORATION AT SWMU 8, BUILDING 231 O/WS

SWMU 8, Building 231 O/WS, is located southeast of Building 231 (Figure 4-1). The O/WS was abandoned and filled with sand. The O/WS was approximately 4 ft wide, 8 ft long, and 4 ft deep and accepted wash water containing oils, detergents, and fuels from a heavy equipment washrack located adjacent to the unit. Activities planned for this site included the removal and disposal of the O/WS and the excavation of TRPH-contaminated soil with concentrations greater than 1,000 mg/kg.

To fulfill the requirements of Holloman AFB's HSWA portion of the RCRA Part B permit, SWMU 8 was to be investigated and characterized concurrently with the separator removal in 1995 (GTI 1995).

4.1 FIELD ACTIVITIES

Initial removal and investigation/characterization activities began in August 1995; the O/WS and 21 cu yds (28 tons) of PCS were removed. It was then discovered that contaminated soil extended beyond what had been anticipated for the first phase of remediation. Field activities were postponed in order to determine the most efficient method of closure. Subsequently, NMED approved leaving intact TRPH-contaminated soil that extended under in-place structures as long as it posed no risk. Due to this agreement, excavation was determined to be the best closure method. Excavation activities were continued in April 1997, and the original excavation was extended eastward from the eastern edge of the original excavation. An additional 31.8 cu yds (43 tons) of TRPH-contaminated soil were excavated.

4.2 SAMPLING AND ANALYSIS

Representative samples of in-place soil and one sample of stockpiled soil were collected during restoration activities. The soil samples were collected and analyzed in accordance with Section 2.4 (Sampling and Analysis), the FSAP (Ebasco 1995a), and the Closure Report for Phase II Remediation of POL-Contaminated Sites (FWENC 1997). Laboratory analytical reports from

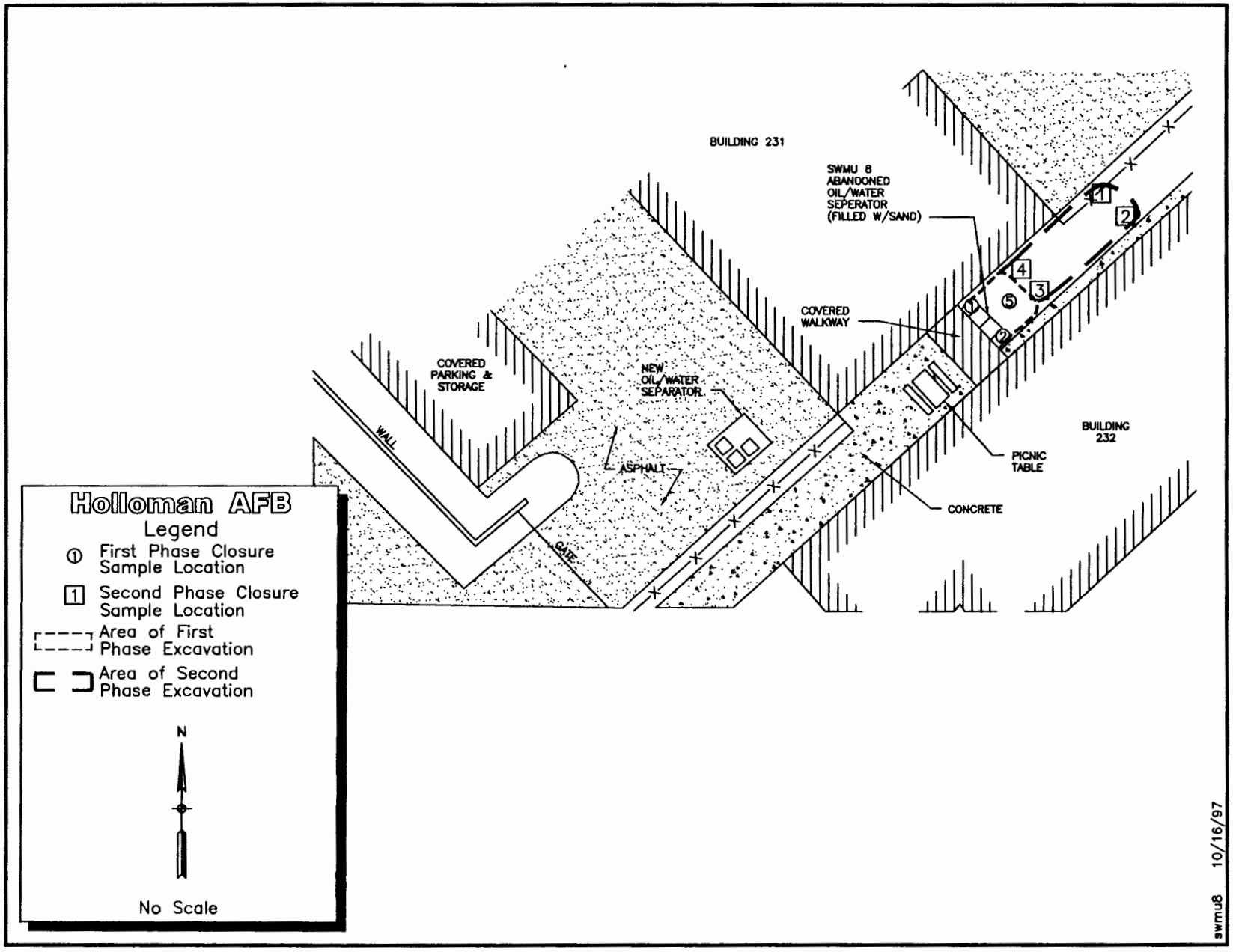


Figure 4–1. SWMU 8, Building 231 O/WS Site Map

Table 4-1
Summary of Site Closure and Stockpile Sample Analytical Results for Soil at SWMU 8, Building 231 O/WS
Page 1 of 2

Sample I.D.				SWMU08-01-06	SWMU08-02-06	SWMU08-03-06	SWMU08-04-06	SWMU8-SPI*
Figure I.D.	1	2	5	1	2	3	4	—
Date Sampled	8/8/95	8/8/95	8/8/95	4/9/97	4/9/97	4/9/97	4/9/97	4/9/97
TRPH by Method 418.1 (mg/kg)	23,000	31,000	940	78	<20	58	25	36
VOCs by Method 1311/8240 (mg/L)	NA	NA	NA	NA	NA	NA	NA	ND
SVOCs by Method 1311/8270B (mg/L)	NA	NA	NA	NA	NA	NA	NA	ND
VOCs by Method 8240B (µg/kg)	NA	NA	NA	ND	ND	ND	ND	NA
SVOCs by Method 8270B (µg/kg)	NA	NA	NA	ND	ND	ND	ND	NA
VOCs by Method 8021A Benzene (mg/kg)	NA	NA	NA	<0.05	<0.05	<0.05	<0.05	<0.05
Toluene (mg/kg)	NA	NA	NA	<0.10	<0.10	<0.10	<0.10	<0.10
Ethylbenzene (mg/kg)	NA	NA	NA	<0.10	<0.10	<0.10	<0.10	<0.10
Xylenes (total) (mg/kg)	NA	NA	NA	<0.20	<0.20	<0.20	<0.20	<0.20
Metals by Method 7421 Lead (2,000 mg/kg)	NA	NA	NA	NA	NA	NA	NA	2.1
Metals by Method 9010A Total Cyanide (mg/kg)	NA	NA	NA	NA	NA	NA	NA	<2.0
Metals by Method 6010A (mg/kg)								
Aluminum[1] (77,000)	NA	NA	NA	2,200	1,800	3,600	3,400	NA
Barium[1] (5,300)	NA	NA	NA	29	20	71	62	27
Chromium[2] (230)	NA	NA	NA	<3.0	<3.0	4.1	4.0	<3.0
Copper (63,000)	NA	NA	NA	<2.5	<2.5	3.1	5.2	NA
Manganese (8,300)	NA	NA	NA	26	30	74	65	NA
Vanadium (12,000)	NA	NA	NA	6.2	6.6	9.2	11	NA
Zinc[1] (23,000)	NA	NA	NA	8.2	5.9	12	17	NA
Lead (2,000)	NA	NA	NA	5.4	<0.40	4.6	4.6	NA
Paint Filter by Method 9095	NA	NA	NA	NA	NA	NA	NA	NP

Table 4-1
Summary of Site Closure and Stockpile Sample Analytical Results for Soil at SWMU 8, Building 231 O/W
Page 2 of 2

Sample I.D.				SWMU08-01-06	SWMU08-02-06	SWMU08-03-06	SWMU08-04-06	SWMU8-SPI*
Figure I.D.	1	2	5	1	2	3	4	—
Date Sampled	8/8/95	8/8/95	8/8/95	4/9/97	4/9/97	4/9/97	4/9/97	4/9/97
Flash Point by Method ASTM D93 (°F)	NA	NA	NA	NA	NA	NA	NA	>200
pH by Method 9045A	NA	NA	NA	NA	NA	NA	NA	7.5
Reactive Sulfide by SW846 Ch#7 (mg/kg)	NA	NA	NA	NA	NA	NA	NA	<2.5

Notes:
Shading denotes site closure samples
* = Soil stockpile sample
< = Constituent not detected above laboratory quantitation limit
() = EPA Region VI risk-based criteria for industrial land use
ND = Not detected
NA = Not analyzed
NP = Not present
1 = Risk-based value above expected saturation point; value shown is residential land use risk-based concentration
2 = Represents risk-based concentration for chromium VI

GTEL are provided in Appendix B. Table 4-1 summarizes the analytical results for the site closure and soil stockpile samples.

4.2.1 Site Closure Samples

As part of the first phase of the project, five closure samples were collected from the initial excavation and analyzed for TRPH. The closure samples were collected from each of the side walls and the bottom of the excavation. Four of the five samples had TRPH concentrations greater than the Base cleanup criteria of 1,000 mg/kg (Ebasco and GTI 1996).

During the second phase of the project, samples were taken outside the original excavation to the east. Four samples were taken from the walls of the new excavation and analyzed for TRPH, VOCs, SVOCs, BTEX, and metals. The second-phase analytical results, which represent in-place soil conditions upon completion of excavation activities, did not exceed the Base cleanup criteria of 1,000 mg/kg TRPH, 25 mg/kg benzene, or RBCs for detected metals (Table 4-1). TRPH concentrations ranged from not-detected to 78 mg/kg. Only two closure samples (sample 1 – 23,000 mg/kg and sample 2 – 31,000 mg/kg) taken adjacent to the building during the first phase of excavation had concentrations above the Base TRPH cleanup criteria of 1,000 mg/kg (Figure 4-1 and Table 4-1). No further excavation of contaminated soil is possible at this site. Because 80-90 percent of TRPH-contaminated soil has been excavated and no further excavation is possible, NFA is recommended per the Base Agreement with NMED.

4.2.2 Soil Stockpile Samples

One soil stockpile sample was collected and analyzed for TRPH, TCLP constituents (VOCs, SVOCs, and metals), BTEX, lead, and RCRA characteristics. As shown on Table 4-1, the analytical result for TRPH was below 1,000 mg/kg (36 mg/kg). All detections of metal analysis were below EPA Region VI RBCs (Table 4-1).

4.3 SITE RESTORATION

Site restoration activities for the first part of the project included backfilling and the replacement of landscaping rock. The second phase of the operation included backfilling, spreading of landscape rock, and replacing the fence. Following site restoration, a USACE representative performed a completion inspection. A copy of this report is included in Appendix C.

4.4 WASTE HANDLING AND DISPOSAL

The O/WS and excavated volume of PCS (21 cu yds or approximately 28 tons) was removed from the site during the first phase of construction, and approximately 31.8 cu yds or 43 tons of soil were removed and transported off site during the second phase. The soil removed during the second phase was taken to the Rhino Environmental facility for disposal. The O/WS was decontaminated and disposed as a solid waste at the Lincoln/Otero County landfill.

4.5 CONCLUSIONS AND RECOMMENDATIONS

A total of 71 tons (approximately 53 cu yds) of soil was excavated and removed from the site. Closure samples adjacent to the western structure contained more than 1,000 mg/kg of TRPH. All other sample analyses indicated TRPH concentrations were below 1,000 mg/kg. Because NMED approved leaving in place PCS extending beneath in-place structures, NFA is recommended for this site.

5.0 SITE RESTORATION AT SWMU 123, BUILDING 704 WOT

SWMU 123, a Table 2 RFI site, was identified as a WOT located beyond the northeastern corner of the POL washrack south of Building 703 (Figure 5-1). The WOT was documented as approximately 5 ft long and 5 ft in diameter. The tank received oils and fuels from the washrack O/WS located west of the tank. Soil samples were collected from the pit during the Table 2 RFI (Radian 1994). The samples did not contain VOCs or metals that exceeded applicable screening criteria. However, TRPH exceeding the 1,000 mg/kg cleanup standard was present with concentrations that ranged between 1,500 mg/kg and 4,510 mg/kg. The RFI recommended the removal of the tank and approximately 200 cu yds of impacted soil.

Activities planned for this site included the removal of a WOT and approximately 200 cu yds of PCS. This site was backfilled, compacted, resurfaced, and cleaned.

5.1 FIELD ACTIVITIES

Initial site reclamation activities began in August 1995. As no tank was found during the site excavation, it was believed that the tank had already been removed. Fifty cu yds (67.5 tons) of TPH-contaminated soil was removed at this time. Closure samples indicated PCS extended east, west, and under the POL washrack. It was decided that the excavation would be backfilled and remedial alternatives reviewed.

Based on an agreement between NMED and Holloman AFB that soil with a TRPH concentration exceeding 1,000 mg/kg extending under large structures would not require remediation if it posed no risk, it was decided that excavation activities would be resumed. The approach was to remove all TRPH-contaminated soil to the groundwater table that did not extend under the washrack.

Site activities resumed in March 1997; subsequently 178.9 tons (approximately 132.5 cu yds) of PCS were removed.

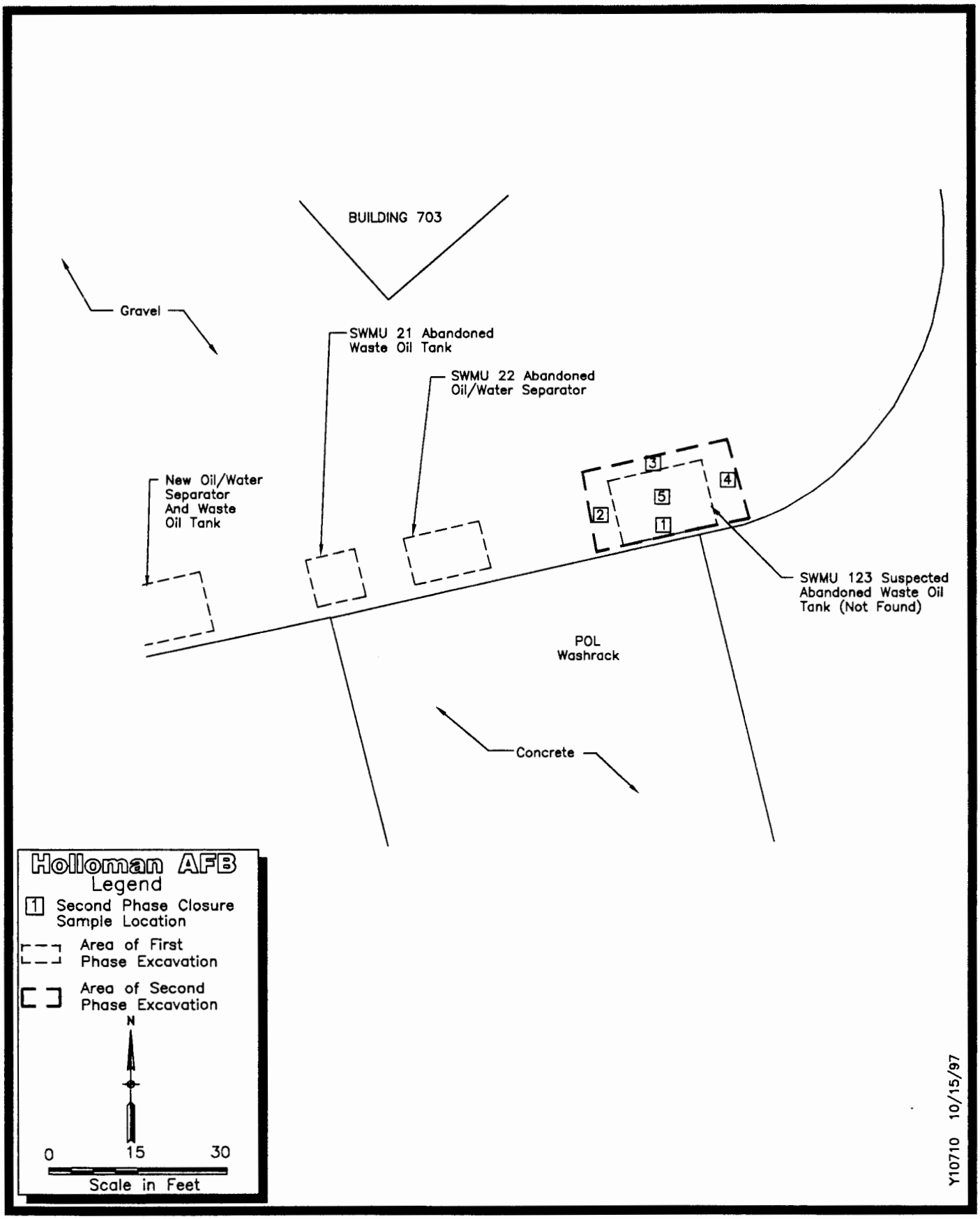


Figure 5-1. SWMU 123, Building 704 WOT Site Map

5.2 SAMPLING AND ANALYSIS

Representative samples of in-place and stockpiled soil were collected during restoration activities. The soil samples were collected and analyzed in accordance with Section 2.4 (Sampling and Analysis), the FSAP (Ebasco 1995a), and the Closure Report for Phase II Remediation of POL-Contaminated Sites (FWENC 1997). Laboratory analytical reports from GTEL are provided in Appendix B. Table 5-1 summarizes the analytical results for the site closure and stockpile samples.

5.2.1 Site Closure Samples

Five closure samples were collected from the excavation and analyzed for TRPH and BTEX. As indicated on Figure 5-1, closure samples were collected from each of the side walls and from the bottom of the excavation. Analytical results for four of the samples did not exceed the Base cleanup criteria, ranging from not detected to 32 mg/kg. Analysis of the sample taken immediately adjacent to the POL washrack revealed one TRPH concentration in excess of 1,000 mg/kg (4,100 mg/kg) and one benzene concentration in excess of 25 mg/kg (33 mg/kg).

5.2.2 Soil Stockpile Samples

Two samples were collected from the soil stockpile and analyzed for TRPH, TCLP constituents (VOCs and SVOCs), BTEX, metals, and RCRA characteristics. As shown on Table 5-1, analyses indicate that TRPH concentrations for both samples exceeded 1,000 mg/kg. All other detected constituents were below Base action criteria or EPA Region VI RBCs.

5.3 SITE RESTORATION

The site was backfilled and the landscaping rock, concrete sidewalk, and asphalt were replaced. After restoration was complete, a USACE representative performed a final site inspection. A copy of the site inspection closure report is included in Appendix C.

Table 5-1

Summary of Site Closure and Stockpile Sample Analytical Results for Soil at SWMU 123, Building 704 WOT

Sample I.D.	SWMU123-01-09	SWM123-02-09	SWMU123-03-09	SWMU123-04-09	SWMU123-05-11	SWMU123-SP1*	SWMU123-SP2*
Figure I.D.	1	2	3	4	5		
Date Sampled	4/8/97	4/8/97	4/8/97	4/8/97	4/8/97	4/8/97	4/8/97
TRPH by Method 418.1 (mg/kg)	4,100	<20	<20	<20	32	2,700	2,500
VOCs by Method 1311/8240 (mg/L)	NA	NA	NA	NA	NA	ND	ND
SVOCs by Method 1311/8270B (mg/L)	NA	NA	NA	NA	NA	ND	ND
VOCs by Method 8021A Benzene (mg/kg)	33	<0.05	<0.05	0.08	<0.05	5.2	1
Toluene (mg/kg)	240	<0.10	<0.10	<0.10	<0.10	17	8.1
Ethylbenzene (mg/kg)	320	<0.10	<0.10	<0.10	<0.10	26	18
Xylenes (total) (mg/kg)	480	<0.20	<0.20	<0.20	<0.20	46	34
Metals by Method 9010A Total Cyanide (mg/kg)	NA	NA	NA	NA	NA	<2.0	<2.0
Metals by Method 6010A (mg/kg)	NA	NA	NA	NA	NA		
Barium[1] (5,300)	NA	NA	NA	NA	NA	22	36
Chromium[2] (230)	NA	NA	NA	NA	NA	4.2	<3.0
Metals by Method 7421 Lead (2,000 mg/kg)	NA	NA	NA	NA	NA	2.7	2.1
Paint Filter by Method 9095	NA	NA	NA	NA	NA	NP	NP
Flash Point by Method ASTM D93 (°F)	NA	NA	NA	NA	NA	>200	>200
pH by Method 9045A	NA	NA	NA	NA	NA	7.4	7.4
Reactive Sulfide by SW846 Ch #7	NA	NA	NA	NA	NA	<25	<25

Notes:
Shading denotes site closure samples
* = Soil stockpile sample
< = Constituent not detected above laboratory quantitation limit
() = EPA Region VI risk-based criteria for industrial land use
NA = Not analyzed
ND = Not detected
NP = Not present

1 = Risk-based value above expected saturation point; value shown is residential land use risk-based concentration
2 = Represents carcinogenic risk-based concentration

5.4 WASTE HAULING AND DISPOSAL

Approximately 50 cu yds (67.5 cu yds) of PCS were removed from the site during the first phase of construction, and 132.5 cu yds (178.9 tons) of soil were transported off site during the second phase of construction. The soil removed during the second phase was taken to the Rhino Environmental facility for disposal.

5.5 CONCLUSIONS AND RECOMMENDATIONS

Analyses showed that four of five closure samples had TRPH concentrations less than 1,000 mg/kg. The closure sample adjacent to the POL washrack contained in excess of 1,000 mg/kg of TRPH (4,100 mg/kg) and 25 mg/kg of benzene (33 mg/kg). Based on the removal of approximately 90 percent of the TRPH-contaminated soil (246.4 tons) and no further excavation possible, NFA is recommended for this site.

6.0 SITE RESTORATION AT AOC-G (DP-43), ATLAS ELECTRICAL SUBSTATIONS

Site AOC-G/IRP site DP-43, Atlas Electrical Substations, is located in the North Base Area near Building 1250 in the vicinity of the eastern boundary of the installation (Figure 6-1). There is one small inactive substation adjacent to Building 1250 and one larger active substation located farther south. As late as 1979, the standard practice of exterior electric shop personnel was to dispose of transformer insulation oil, which contained less than 50 ppm PCBs, on the ground in the vicinity of these substations. Soil samples were collected from the area during the RI at 29 sites (Radian 1992). The samples did not contain VOCs or metals above applicable action criteria. However, TRPH was detected in samples from four areas at concentrations ranging from 1,000 mg/kg to 20,000 mg/kg. The RI recommended excavation of 60 cu yds TRPH-impacted soil from four discreet areas of the substation.

During Phase I POL remediation activities, 20 closure samples were collected from four separate areas. One closure sample collected from Area 1 exceeded Base cleanup criteria (Ebasco and GTI 1996).

6.1 FIELD ACTIVITIES

Initial site activities took place in August 1995. Closure samples from the first phase indicated that Area 1 required additional soil removal.

The second phase of work at IRP site DP-43, Area 1 began in April 1997. The northwest corner of Area 1 was excavated further to the north and west, and an additional 112.6 cu yds (152 tons) of TRPH-contaminated soil was removed.

6.2 SAMPLING AND ANALYSIS

Representative samples of in-place and stockpiled soil were collected during restoration activities. The soil samples were collected and analyzed in accordance with Section 2.4 (Sampling and Analysis), the FSAP (Ebasco 1995a), and the Closure Report for Phase II Remediation of POL-Contaminated Sites (FWENC 1997). Laboratory analytical results from

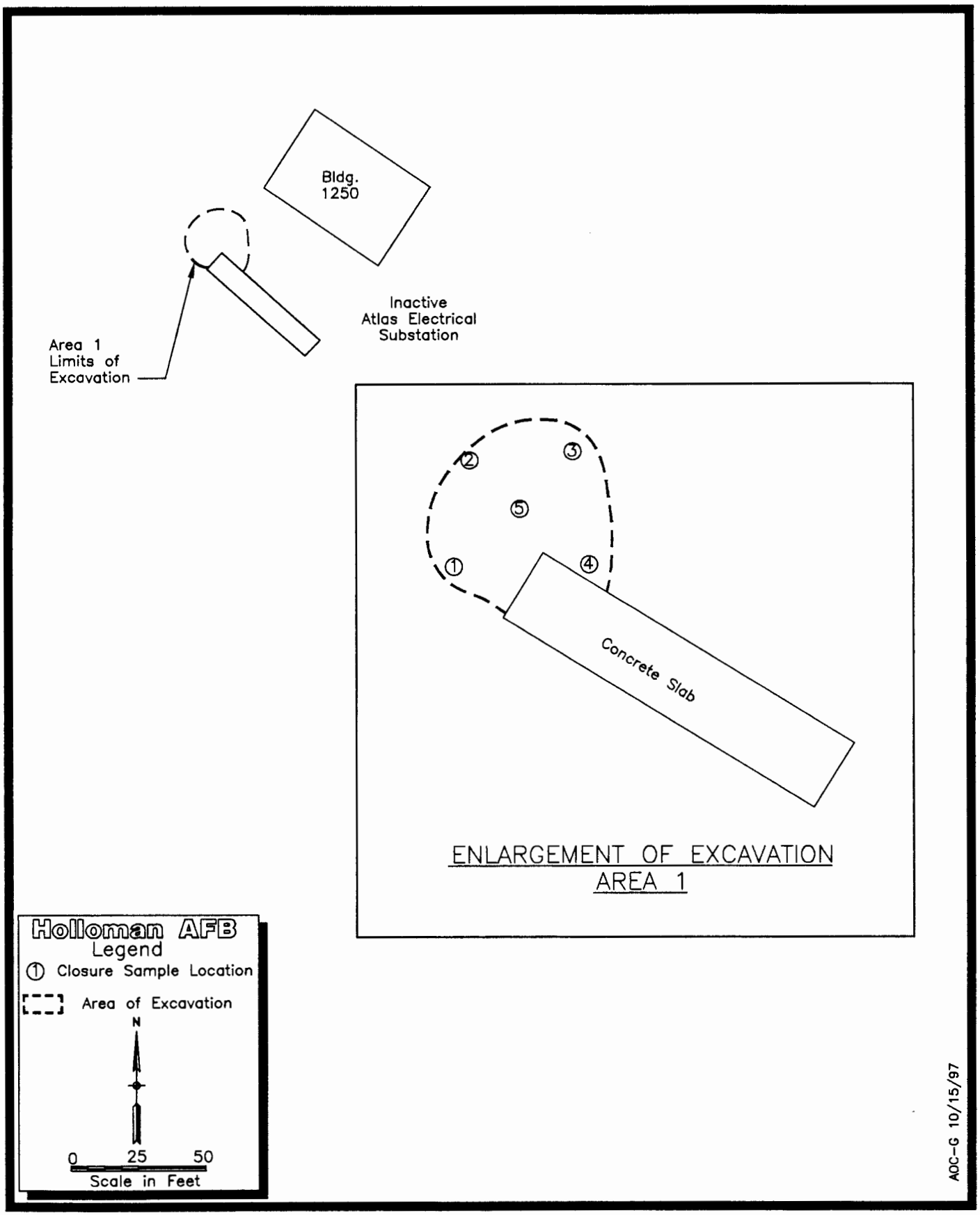


Figure 6-1. AOC-G (DP-43), Atlas Electrical Substation Site Map

6.5 Conclusions and Recommendations

A total of 152 tons (112.6 cu yds) were excavated and removed from this site. During the first phase of work, the closure samples for four of the five areas indicated TRPH levels to be less than 1,000 mg/kg. During the second phase of work, additional excavation was completed in the northwest corner of Area 1. Sample analyses showed all TRPH levels to be less than 1,000 mg/kg. Therefore, NFA is recommended for this site.

7.0 SITE RESTORATION AT SWMU 107, MAIN BASE ELECTRICAL SUBSTATION

SWMU 107/IRP site OT-11, Main Base Electrical Substation, is located north of the Main Base near the eastern boundary of the installation. As illustrated in Figure 7-1, there is one active transformer substation located at this site. As late as 1979, the standard practice of exterior electric shop personnel was to dispose of transformer insulation oil, which contained less than 50 ppm, on the ground in the vicinity of this substation. Soil samples were collected from the area during the RI at 29 sites (Radian 1992). The samples did not contain VOCs or metals exceeding applicable action criteria. However, TRPH was detected in samples from four discrete areas at levels ranging from 1,000 mg/kg to 26,000 mg/kg, exceeded the 1,000 mg/kg cleanup criteria. The RI recommended the excavation of approximately 180 cu yds of PCS from four discrete areas of the substation.

7.1 FIELD ACTIVITIES

Initial field activities began in August 1995. During the first phase of remediation, 20 closure samples were collected from four separate areas. One closure sample collected from Area 1 exceeded Base cleanup criteria for TRPH (Ebasco and GTI 1996).

The second phase of activities began in May 1996. Area 1 was re-excavated and an additional 1 ft of soil was removed from the bottom of the excavation. Closure samples were then taken.

7.2 SAMPLING AND ANALYSIS

Representative samples of in-place and stockpiled soil were collected during restoration activities. The soil samples were collected and analyzed in accordance with Section 2.4 (Sampling and Analysis), the FSAP (Ebasco 1995a), and the Closure Report for Phase II Remediation of POL-Contaminated Sites (FWENC 1997). Laboratory analytical results from GTEL are provided in Appendix B. Table 7-1 summarizes the analytical results for the site closure and soil stockpile samples.

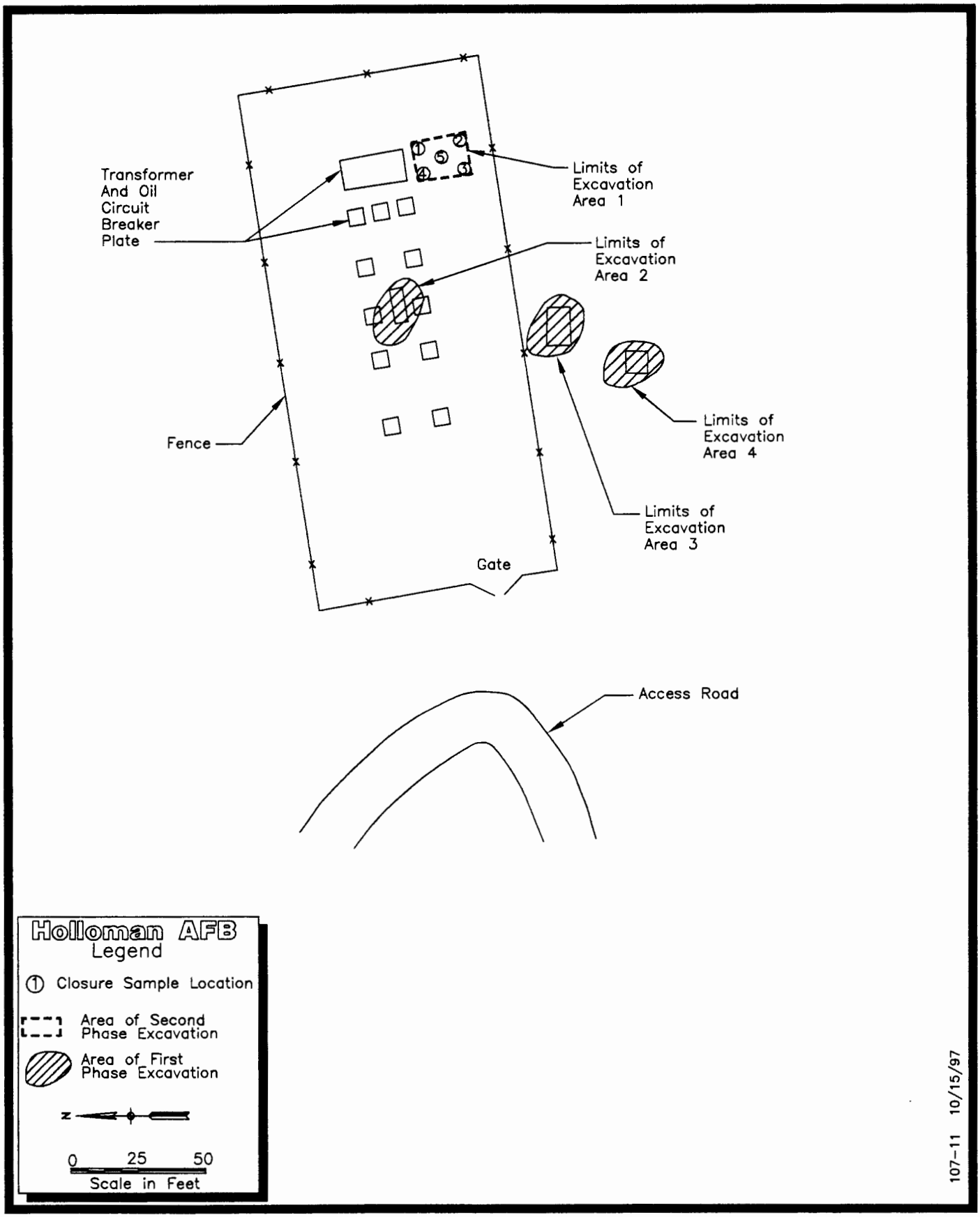


Figure 7-1. SWMU 107 (OT-11), Main Base Electrical Substation Site Map

Table 7-1

Summary of Site Closure and Stockpile Sample Analytical Results for Soil at SWMU 107 (OT-11), Main Base Electrical Substation

Sample I.D.	OT11-01-04	OT11-02-04	OT11-03-04	OT11-04-04	OT11-05-04	OT11SP*
Figure I.D.	1	2	3	4	5	—
Date Sampled	5/15/96	5/15/96	5/15/96	5/15/96	5/15/96	5/15/96
TRPH by Method 418.1 (mg/kg)	160	100	350	130	85	330
PCBs by Method 1311/8080 (mg/L)	NA	NA	NA	NA	NA	ND
PCBs by Method 8080 (µg/kg)	ND	ND	ND	ND	ND	NA
VOCs by Method 8021A Benzene (mg/kg)	NA	NA	NA	NA	NA	<0.05
Toluene (mg/kg)	NA	NA	NA	NA	NA	<0.10
Ethylbenzene (mg/kg)	NA	NA	NA	NA	NA	<0.10
Xylenes (total) (mg/kg)	NA	NA	NA	NA	NA	<0.20
Metals by Method 7421 Lead (2,000 mg/kg)	NA	NA	NA	NA	NA	5.2
Paint Filter by Method 9095	NA	NA	NA	NA	NA	NP
Flash Point by Method ASTM D93 (°F)	NA	NA	NA	NA	NA	>200
pH by Method 9045A	NA	NA	NA	NA	NA	7.8
Metals by Method 9010A Total Cyanide (mg/kg)	NA	NA	NA	NA	NA	<2.0
Reactive Sulfide by Method SW846 Ch#7	NA	NA	NA	NA	NA	<2.5

Notes:
Shading denotes site closure samples
* = Soil stockpile sample
< = Constituent not detected above laboratory quantitation limit
() = EPA Region VI risk-based criteria for industrial land use
NA = Not analyzed
ND = Not detected
NP = Not present

7.2.1 Site Closure Samples

Five closure samples were collected from the Area 1 excavation. As indicated on Figure 7-1, samples were collected from each side wall and from the bottom of the excavation and analyzed for TRPH and PCBs. The analytical results, which represent soil conditions upon completion of excavation, revealed concentrations of PCBs and TRPH below Base cleanup criteria. TRPH concentrations ranged from 85 mg/kg to 350 mg/kg and PCBs were not detected.

7.2.2 Soil Stockpile Samples

One soil stockpile sample was collected and analyzed for TRPH, TCLP PCBs, VOCs (BTEX), metals, and RCRA characteristics. The analytical results indicated that TRPH and PCB concentrations were below Base cleanup criteria (330 mg/kg and not detected, respectively) and the lead concentration was below EPA Region VI RBC (5.2 mg/kg). Analysis of ignitability, corrosivity, and reactivity indicated the excavated soil was not a characteristic hazardous waste.

7.3 SITE RESTORATION

Site restoration activities included backfilling, compaction, and cleaning.

7.4 WASTE HANDLING AND DISPOSAL

No soil required off-site disposal during Phase II activities.

7.5 CONCLUSIONS AND RECOMMENDATIONS

The amount of soil excavated and removed from this site was approximately 180 cu yds (243 tons). All closure samples indicated TRPH and PCB contamination occurs at concentrations below the Base cleanup criteria. NFA is recommended for this site.

8.0 SITE RESTORATION AT AOC-P (OT-44), BUILDING 301 FUEL TANK LEAKS

AOC-P (IRP site OT-44), the Building 301 Fuel Tank Leaks, is located on the south side of Building 301 (an aircraft maintenance hangar) adjacent to the main taxiway in the northern portion of the Main Base Area (Figure 8-1).

During Table 1, Phase II RFI activities (Radian 1995a) TRPH concentrations exceeding 1,000 mg/kg were detected. The RFI recommended Conditional No Further Action (CNFA) for AOC-P. The condition of NFA is the remediation of TRPH-contaminated soil to the Base-specific cleanup level of 1,000 mg/kg.

Remediation activities planned for this site included asphalt removal and replacement, excavation of PCS, and backfilling the site with clean fill.

8.1 FIELD ACTIVITIES

Field activities began in March 1997. The asphalt was cut, removed, and decontaminated; the site was excavated to the groundwater table. Sixty tons (44.4 cu yds) of TRPH-contaminated soil was removed.

8.2 SAMPLING AND ANALYSIS

Representative samples of in-place soil and the soil stockpile were collected during restoration activities. The soil samples were collected and analyzed in accordance with Section 2.4 (Sampling and Analysis), the FSAP (Ebasco 1995a), and the Closure Report for Phase II Remediation of POL-Contaminated Sites (FWENC 1997). Laboratory analytical reports from GTEL are provided in Appendix B. Table 8-1 summarizes the analytical results for the site closure and stockpile samples.

8.2.1 Site Closure Samples

Four closure samples were collected from the excavation at this site and analyzed for TRPH. As indicated in Figure 8-1, samples were collected from each wall of the excavation. No closure

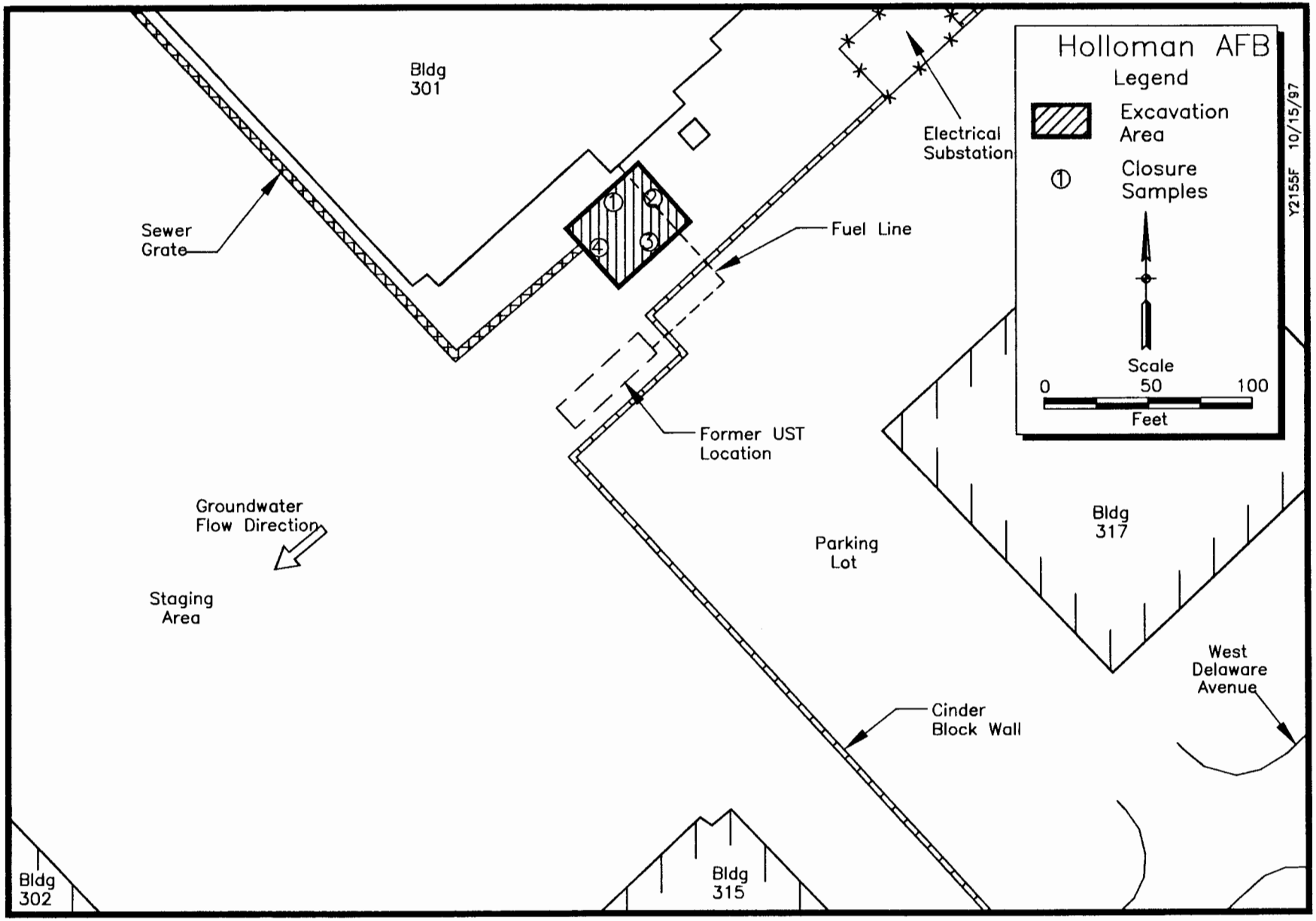


Figure 8-1. AOC-P (OT-44), Building 301 Fuel Tank Leaks Site Map

Table 8-1

Summary of Site Closure and Stockpile Sample Analytical Results for Soil at AOC-P (OT-44), Building 301 Fuel Tank Leaks

Sample I.D.	OT44-01-03	OT44-010-03^	OT44-02-03	OT44-020-03^	OT44-03-03	OT44-030-03^	OT44-04-03	OT44-040-03^	OT44-SP*
Figure I.D.	1	—	2	—	3	—	4	—	—
Date Sampled	3/17/97	3/17/97	3/17/97	3/17/97	3/17/97	3/17/97	3/17/97	3/17/97	3/19/97
TRPH by Method 418.1 (mg/kg)	260	520	46	49	<20	27	32	25	3,600
RPD (%)		67%		6.30%		30%		25%	
VOCs by Method 1311/8240 (mg/L)	NA	NA	NA	NA	NA	NA	NA	NA	ND
SVOCs by Method 1311/8270B (mg/L)	NA	NA	NA	NA	NA	NA	NA	NA	ND
(VOCs by Method 8021A Benzene (mg/kg)	NA	NA	NA	NA	NA	NA	NA	NA	<0.05
Toluene (mg/kg)	NA	NA	NA	NA	NA	NA	NA	NA	<0.10
Ethylbenzene (mg/kg)	NA	NA	NA	NA	NA	NA	NA	NA	<0.10
Xylenes (total) (mg/kg)	NA	NA	NA	NA	NA	NA	NA	NA	<0.20
Metals by 9010A Total Cyanide (mg/kg)	NA	NA	NA	NA	NA	NA	NA	NA	<2.0
Metals by Method 6010A Barium[1] (5,300 mg/kg)	NA	NA	NA	NA	NA	NA	NA	NA	29
Metals by Method 7421 Lead (2,000 mg/kg)	NA	NA	NA	NA	NA	NA	NA	NA	2.9
Paint Filter by Method 9095	NA	NA	NA	NA	NA	NA	NA	NA	NP
Flash Point by Method ASTM D93 (°F)	NA	NA	NA	NA	NA	NA	NA	NA	>200
pH by Method 9045A	NA	NA	NA	NA	NA	NA	NA	NA	7.6
Reactive Sulfide by Method SW846 CH#7	NA	NA	NA	NA	NA	NA	NA	NA	<25

Notes:
Shading denotes site closure sample
< = Constituent not detected above laboratory quantitation limit
() = EPA Region VI risk-based criteria for industrial land use
NA = Not analyzed
ND = Not detected
NP = Not present
1 = Risk-based value above expected saturation point; value shown is residential land use risk-based concentration
RPD = Relative Percent Difference
^ = Duplicate sample; acceptance limit is 50%
* = Soil stockpile sample

sample was taken from the bottom of the excavation because it was below the groundwater table. The analytical results (Table 8-1), which represent in-place soil conditions upon completion of excavation, revealed levels of TRPH less than 1,000 mg/kg for all closure samples (ranging from not detected to 260 mg/kg).

8.2.2 Soil Stockpile Samples

One stockpile sample was collected and analyzed for TRPH, TCLP constituents (VOCs and SVOCs), VOCs (BTEX), metals, and RCRA characteristics. The analytical results indicated TRPH levels were greater than 1,000 mg/kg (3,600 mg/kg). Barium and lead were detected at concentrations below the RBCs (29 mg/kg and 2.9 mg/kg, respectively). Analysis of RCRA characteristics indicated the soil was not a characteristic hazardous waste.

8.3 SITE RESTORATION

Site restoration activities included backfilling, compaction, resurfacing with asphalt, and cleaning.

8.4 WASTE HANDLING AND DISPOSAL

Sixty tons (44.4 cu yds) of soil was transported off site to the Rhino Environmental facility for disposal. Asphalt was taken to the Otero/Lincoln County Regional Landfill.

8.5 CONCLUSIONS AND RECOMMENDATIONS

A total of sixty tons (44.4 cu yds) of soil was excavated and removed from this site. All closure samples indicated TRPH contamination at less than 1,000 mg/kg. NFA is recommended for this site.

9.0 SITE RESTORATION AT SWMU 14, BUILDING 306 O/WS

SWMU 14, Building 306 O/WS, is located adjacent to the F-4/T-38 washrack (Figure 9-1) and since 1969 received rinsate from the cleaning of aircraft. Activities planned for this site included the excavation of soil associated with the O/WS. Once the soil restoration is complete, a wastewater recirculation unit will be constructed to treat rinsate from the F-4/T-38 washrack, and SWMU 14 will be used as a collection sump.

To determine whether a release had occurred, SWMU 14 was investigated under the Phase I/II Table 3 RFI (Radian 1995b). Phase I soil sample analysis showed that a subsurface release had occurred and Phase II was conducted to define the lateral and vertical extent of contamination. It was determined that the area of contamination in groundwater is confined to the SWMU. From the risk-based screen results the release does not pose a risk to human health. No vadose zone soil samples exceeded the 1,000 mg/kg Base TRPH cleanup level.

The Phase I/II Table 3 RFI recommendation for SWMU 14 was CNFA. The condition of the NFA was mitigation of the O/WS leak to prevent further releases to the subsurface. The existing O/WS has been abandoned and a wastewater recirculation unit has been installed in its place.

9.1 FIELD ACTIVITIES

Field activities began in June 1997. Landscaping rock was stockpiled and the area was excavated to the groundwater table and to the western, eastern, and southern sides of the SWMU 14 O/WS.

9.2 SAMPLING AND ANALYSIS

Representative samples of in-place soil were collected during restoration activities. The soil samples were collected and analyzed in accordance with Section 2.4 (Sampling and Analysis), the FSAP (Ebasco 1995a), and the Closure Report for Phase II Remediation of POL-Contaminated Sites (FWENC 1997). Laboratory analytical results from GTEL are provided in Appendix B. Table 9-1 summarizes the analytical results for the site closure samples.

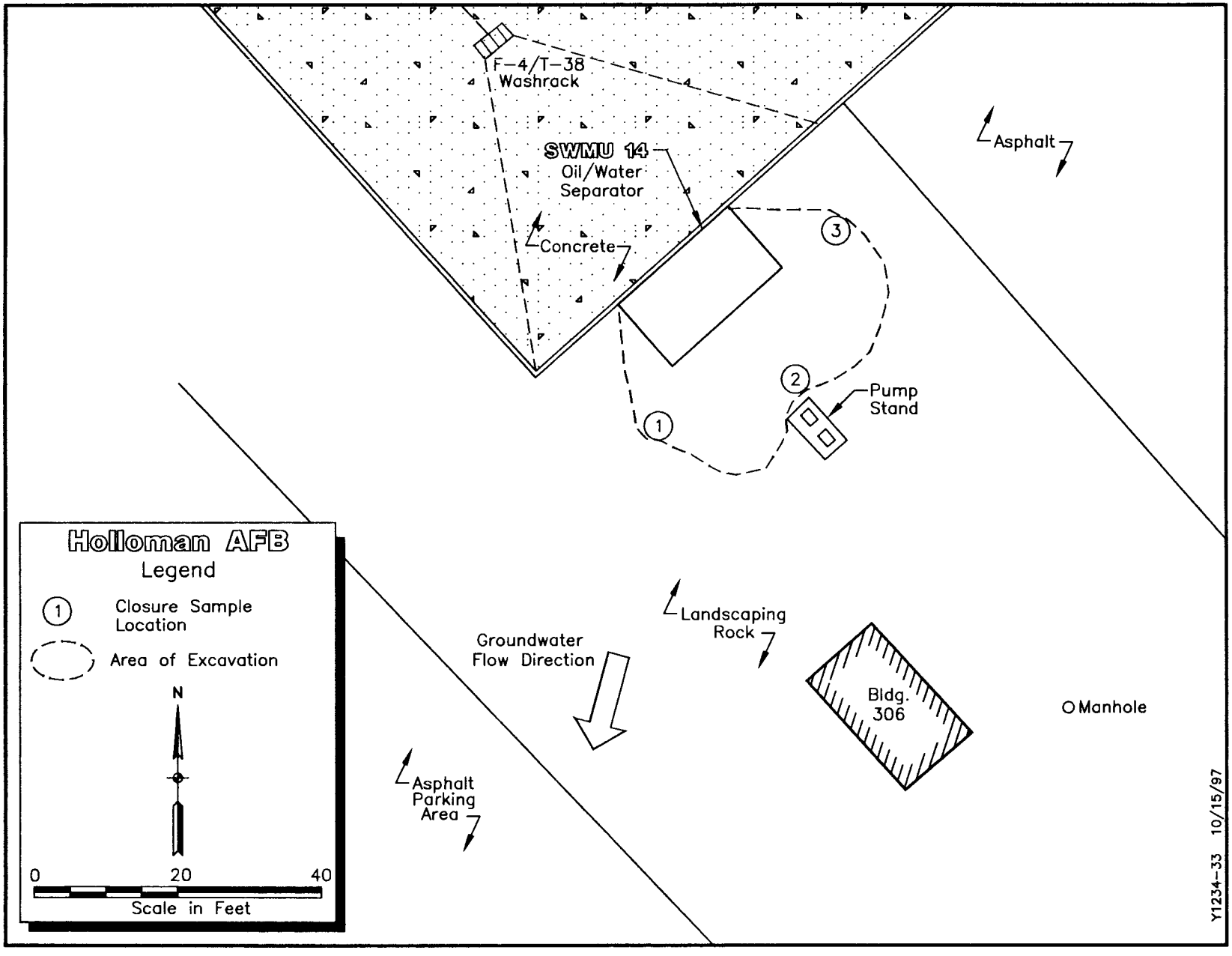


Figure 9-1. SWMU 14, Building 306 O/WS Site Map

Table 9-1

Summary of Site Closure Sample Analytical Results for Soil at SWMU 14, Building 306 O/WS

Sample I.D.	SWMU14-01-06	SWMU14-02-06	SWMU14-03-06
Figure I.D.	1	2	3
Date Sampled	7/3/97	7/3/97	7/3/97
TRPH by Method 418.1 (mg/kg)	39	<20	<20

Notes:
Shade denotes site closure sample
< = Constituent not detected above laboratory quantitation limit

9.2.1 Site Closure Samples

Three closure samples were collected from the excavation at this site and analyzed for TRPH. As indicated on Figure 9-1, samples were collected from each of the walls of the excavation. No floor samples were taken because the excavation was at the groundwater table. The analytical results, which represent in-place soil conditions upon completion of excavation, revealed concentrations of TRPH below 1,000 mg/kg for all closure samples (ranging from not detected to 39 mg/kg).

9.2.2 Soil Stockpile Samples

No soil contamination was detected using field screening techniques; therefore no stockpile samples were collected.

9.3 SITE RESTORATION

Site restoration activities included soil backfilling, compaction, landscaping, and cleaning. After restoration was complete, a USACE representative performed a final site inspection. A copy of the site inspection report is included in Appendix C.

9.4 WASTE HANDLING AND DISPOSAL

No soil or debris required off-site disposal from this site.

9.5 CONCLUSIONS AND RECOMMENDATIONS

All closure samples indicated TRPH contamination at concentrations less than 1,000 mg/kg. NFA is recommended for this site.

10.0 SITE RESTORATION AT SWMU 23, BUILDING 800 O/WS

SWMU 23, Building 800 O/WS is located adjacent to the southwest corner of Building 800 (Figure 10-1). Activities planned for this site included the removal of a 900-gallon O/WS (sediment trap) and the excavation of approximately 6 cu yds of soil with TRPH present at levels exceeding 1,000 mg/kg.

The estimated quantity of soil was determined during the Phase I/II Table 3 RFI (Radian 1995b). The limits of the contaminated soil plume were determined using direct-push technology (DPT) sampling points. To characterize the nature of the release, eight samples were analyzed for TRPH, VOCs, SVOCs, and RCRA metals. The risk-based screening indicated that none of the constituent concentrations exceeded the screening criteria for this SMWU. On the basis of this screen, there is no risk to human health from the release at SWMU 23. The Phase I/II Table 3 RFI recommendation for SWMU 23 was CNFA. The condition of NFA is remediation of contaminated soil to TRPH levels not exceeding the Base-specific cleanup level of 1,000 mg/kg.

10.1 FIELD ACTIVITIES

The first phase of remedial activities at SWMU 23 began on January 21, 1996. The first part of this project involved the removal of landscaping rock from the work area; the excavation and stockpiling of petroleum-stained soil from around the separator; the removal, decontamination, and disposal of the separator; backfilling with clean fill; and relandscaping at the site.

The contaminated soil extended beyond the limits delineated in the Phase I/II Table 3 RFI (Radian 1995b). Field activities were delayed to determine the extent of contamination and most feasible approach for remediating this site.

Continued excavation was deemed the most cost-effective cleanup method for the remainder of the site. Excavation activities resumed at SWMU 23 on Thursday, January 23, 1997. TPH-contaminated soil was removed from locations north, west, and south of the original excavation.

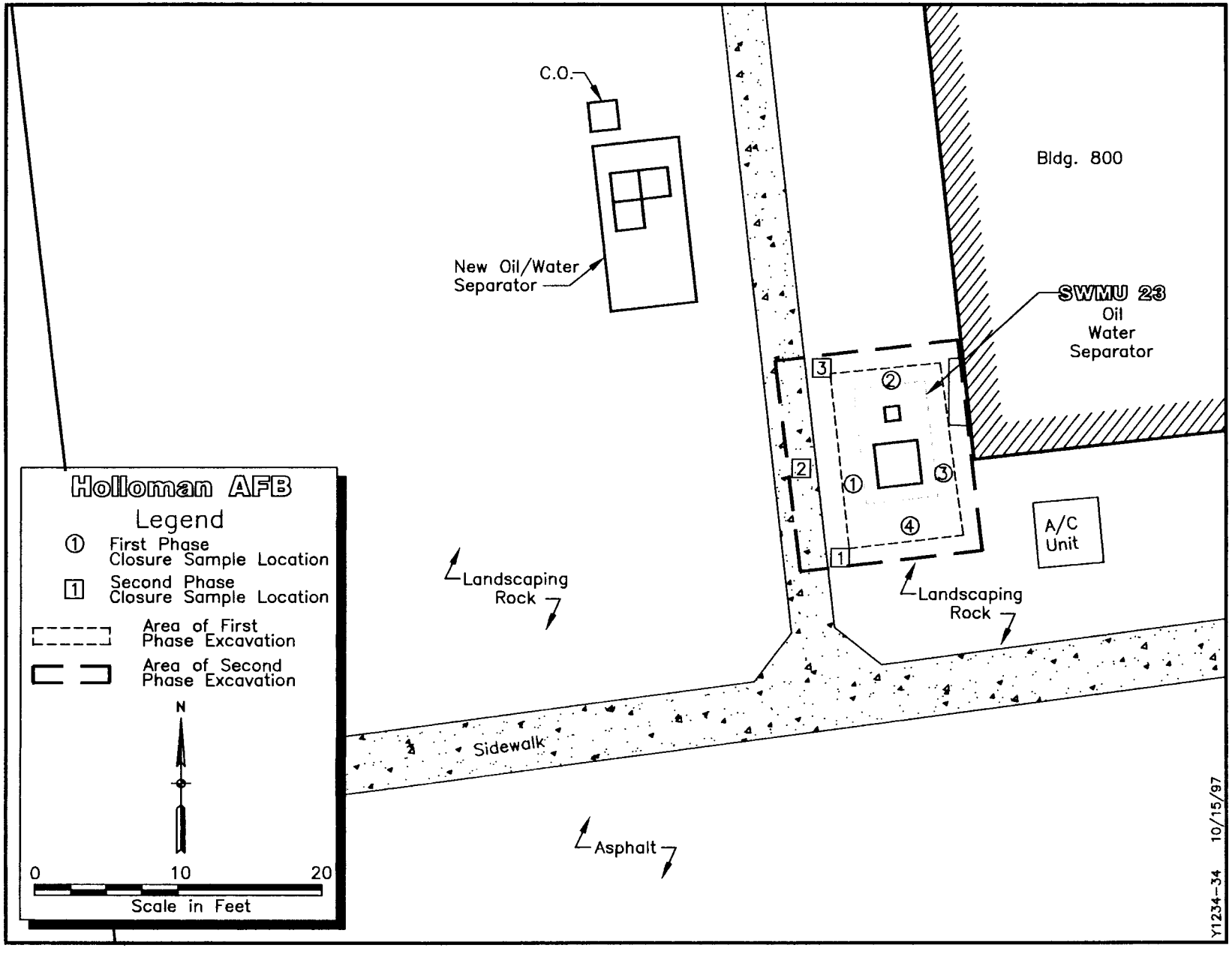


Figure 10–1. SWMU 23, Building 800 O/WS Site Map

10.2 SAMPLING AND ANALYSIS

Representative samples of in-place soil were collected during restoration activities. The soil samples were collected and analyzed in accordance with Section 2.4, the FSAP (Ebasco 1995a), and the Closure Report for Phase II Remediation of POL-Contaminated Sites (FWENC 1997). Laboratory analytical reports from GTEL are provided in Appendix B. Table 10-1 summarizes the analytical results for the site closure samples.

10.2.1 Site Closure Samples

During the first phase of excavation activities in January 1996, four closure samples were collected from the sides of the excavation and analyzed for TRPH. Only one of these samples' analytical results revealed TRPH concentrations below 1,000 mg/kg. This sample was collected adjacent to Building 800 and had a TRPH level of 520 mg/kg. The other three samples had TRPH concentrations ranging from 1,500 mg/kg to 29,000 mg/kg.

During the second phase of activities, three closure samples were collected from the north, west, and south walls of the expanded excavation. No sample was collected from the bottom of the excavation because it was at the groundwater table. The samples were analyzed for TRPH; the results, which represent in-place soil conditions upon completion of excavation, revealed TRPH levels less than 1,000 mg/kg for all closure samples (all non-detect values).

10.2.2 Soil Stockpile Samples

No soil contamination was detected during the first phase using field screening techniques. During the second phase, one soil stockpile sample was collected and analyzed for TRPH, TCLP constituents (VOCs, SVOCs), BTEX, metals, and RCRA characteristics. The analytical results indicated that TRPH and benzene concentrations were below Base cleanup criteria (510 mg/kg and not detected, respectively). No detected metal analytes exceeded EPA Region VI RBCs (barium concentration 30 mg/kg, chromium concentration 4.3 mg/kg, and lead concentration 1.2 mg/kg). Analysis indicated the sample is not a characteristic hazardous waste.

10.3 SITE RESTORATION

Site restoration included the backfilling and compaction of the excavation and placement of landscaping rock.

10.4 WASTE HANDLING AND DISPOSAL

Approximately 20 cu yds (27 tons) of soil required off-site disposal from this site. The O/WS was disposed as solid waste at the Lincoln/Otero County Landfill.

10.5 CONCLUSIONS AND RECOMMENDATIONS

Approximately 27 tons (20 cu yds) of soil was excavated and removed from this site. The O/WS has been removed and closure samples contained less than 1,000 mg/kg TRPH. NFA is recommended.

11.0 SITE RESTORATION AT SWMU 28, BUILDING 822 O/WS

SWMU 28, Building 822 O/WS is located north of the concrete washrack and northwest of Building 822 (Figure 11-1). Activities planned for this site included excavation of approximately 133 cu yds of soil with TRPH concentrations greater than 1,000 mg/kg.

The estimated quantity of contaminated soil was determined during the Phase I/II Table 3 RFI (Radian 1995b). The horizontal and vertical extent of contamination was determined via DPT sampling points. The nature of the release was characterized by analyzing eight samples for TRPH, VOCs, SVOCs, and RCRA metals. The risk-based screen indicated that none of the constituents exceeded the screening criteria for this SWMU. On the basis of this screen there is no risk to human health from the release at SWMU 28.

The Phase I/II Table 3 RFI recommendation for SWMU 28 was CNFA. The condition of the NFA was remediation of soil having TRPH levels in excess of the Base-specific cleanup level.

11.1 FIELD ACTIVITIES

Initial excavation activities were initiated in January 1996. This operation involved the cutting, removal, and disposal of asphalt; excavation of contaminated soil; backfilling; and resurfacing.

The contaminated soil extended beyond the limits delineated in the Phase I/II Table 3 RFI (Radian 1995b). Field activities were suspended in order to better characterize the contamination and thus plan for future remedial activities at the site.

Additional characterization activities were conducted at the SWMU 28 site in June 1996 (GTGSI 1996). The characterization was performed to determine the extent of PCS soil in excess of 1,000 mg/kg. The characterization results indicated the PCS plume continued east from the original excavation.

Excavation activities resumed at SWMU 28 on Wednesday, January 15, 1997. Excavation activities continued to the east of the original excavation and north of Building 822. An additional 138 tons of PCS was excavated.

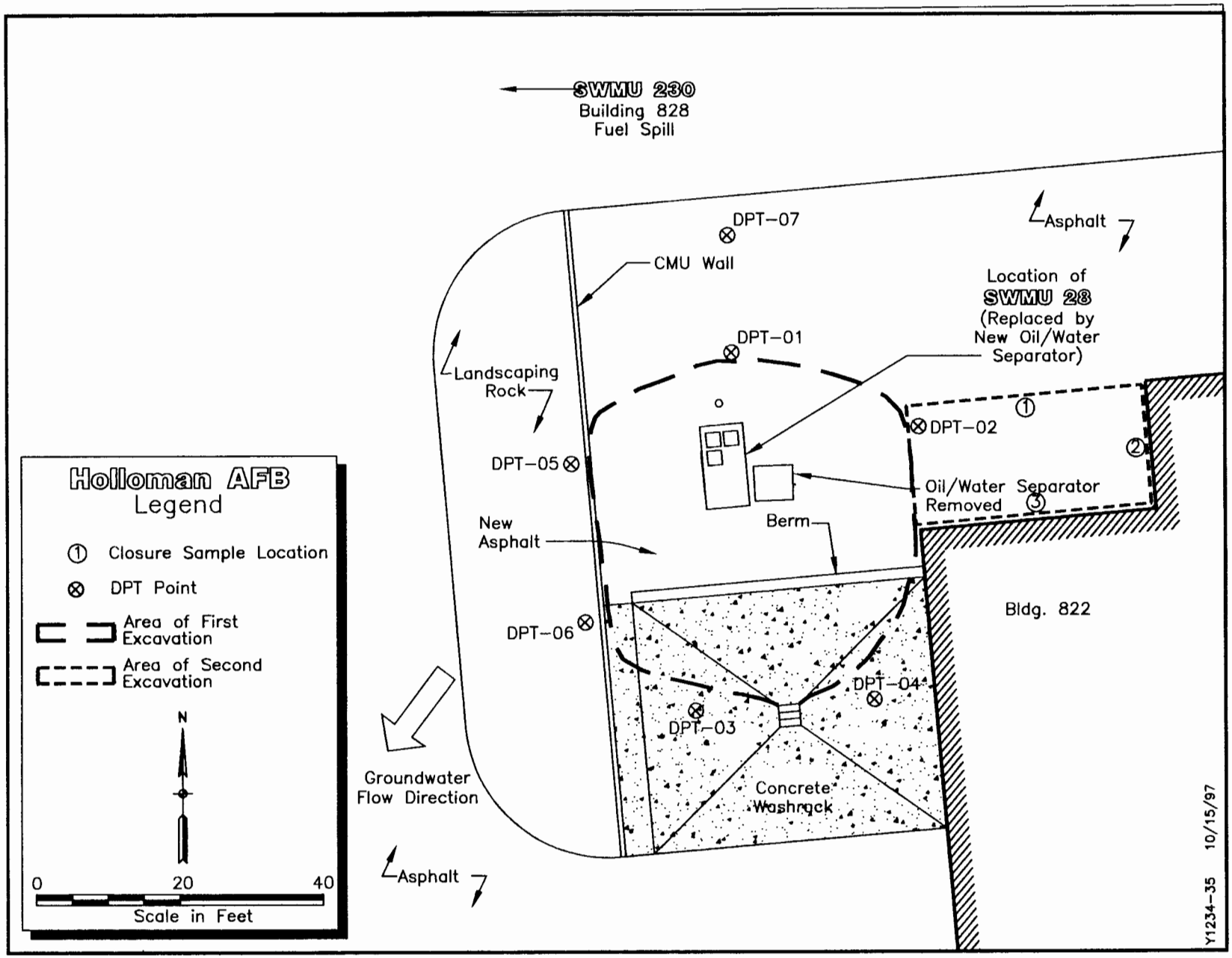


Figure 11-1. SWMU 28, Building 822 O/WS Site Map

11.2 SAMPLING AND ANALYSIS

Representative samples of in-place soil were collected during restoration activities. The soil samples were collected and analyzed in accordance with Section 2.4 (Sampling and Analysis), the FSAP (Ebasco 1995a), and the Closure Report for Phase II POL-Contaminated Sites (FWENC 1997). Laboratory analytical reports from GTEL are provided in Appendix B. Table 11-1 summarizes the analytical results for the site closure samples, and Table 11-2 presents the analytical results for the soil stockpile samples.

11.2.1 Site Closure Samples

Closure samples for remedial activities initiated on January 13, 1996, were obtained during the GTGSI additional characterization activities. As part of this project, GTGSI placed six DPT points and took two samples per DPT point along the perimeter of the original excavation. All analyses of samples, excluding those analyses of the samples to the east of the original excavation, revealed contaminant levels were below Base cleanup requirements. No closure sample was taken from the bottom of the excavation because soil was excavated to the groundwater table.

Three closure samples were collected from the final excavation on January 27, 1997 and analyzed for TRPH only. No sample was required for the excavation floor because it was below the groundwater table. Also, no sample was taken from the west wall because it consisted of clean backfill from the initial excavation. Analytical results, which represent soil conditions upon completion of excavation, revealed TRPH concentrations below 1,000 mg/kg for all closure samples (all non-detect values).

11.2.2 Soil Stockpile Samples

No soil contamination was detected from the first excavation using field-screening methods; therefore, no soil stockpile samples were collected during the first phase of fieldwork.

Table 11-1

Summary of Site Closure Sample Analytical Results for Soil at SWMU 28, Building 822 O/WS

Sample I.D.	SWMU28-01-05	SWMU28-02-05	SWMU28-03-05	SWMU28-SP*
Figure I.D.	1	2	3	—
Date Sampled	1/27/97	1/27/97	1/27/97	3/3/97
TRPH by Method 418.1 (mg/kg)	<20	<20	<20	1,200
VOCs by Method 1311/8240 (mg/L)	NA	NA	NA	ND
SVOCs by Method 1311/8270B (mg/L)	NA	NA	NA	ND
VOCs by Method 8021A Benzene (mg/kg)	NA	NA	NA	<0.05
Toluene (mg/kg)	NA	NA	NA	<0.10
Ethylbenzene (mg/kg)	NA	NA	NA	<0.10
Xylenes (total) (mg/kg)	NA	NA	NA	<0.20
Metals by Method 9010A Total Cyanide (mg/kg)	NA	NA	NA	ND
Metals by Method 6010A (mg/kg) Barium[1] (5,300)	NA	NA	NA	21
Metals by Method 7421 Lead (2,000 mg/kg)	NA	NA	NA	1.3
Paint Filter by Method 9095	NA	NA	NA	NP
Flash Point by Method ASTM D93/EPA 1010 (°F)	NA	NA	NA	>200
pH by Method 9045A	NA	NA	NA	7
Reactive Sulfide by Method EPA SW846 Ch #7	NA	NA	NA	ND

Notes:
Shading denotes site closure samples
* = Soil stockpile sample
< = Constituent not detected above laboratory quantitation limit
() = EPA Region VI risk-based criteria for industrial land use
1 = Risk-based value above expected saturation point; value shown is residential land use risk-based concetration
NA = Not analyzed
ND = Not detected
NP = Not present

Table 11-2

Summary of Direct Push Soil Sample Analytical Results for Stockpile Screening at SWMU 28, Building 822 O/WS

Sample I.D.	DPT-01	DPT-02	DPT-03	DPT-04	DPT-05	DPT-06
Date Sampled	6/96	6/96	6/96	6/96	6/96	6/96
TRPH by Method 418.1 (mg/kg)	53	1,100	79	<20	<20	<20

Notes:
< = Constituent not detected above laboratory quantitation limit

During the second phase of field activities, one sample from the stockpile was analyzed for TRPH, TCLP constituents (VOCs, SVOCs), BTEX, metals, and RCRA characteristics. The TRPH concentration was above 1,000 mg/kg (1,200 mg/kg). No detected metal analytes exceeded EPA Region VI RBCs (barium concentration 21 mg/kg and lead concentration 1.3 mg/kg). Analysis indicated the soil is not a characteristic hazardous waste.

11.3 SITE RESTORATION

Site restoration activities for the first portion of the project included backfilling and the replacement of asphalt and part of the concrete washrack. The second phase required backfilling, compaction, and resurfacing with asphalt. Following site restoration for the initial and final field operation, a USACE representative performed a final site inspection. Copies of the site inspection closure reports are included in Appendix C.

11.4 WASTE HANDLING AND DISPOSAL

During the first phase of work, 250 tons of TRPH-contaminated soil was transported off site; during the second phase of work, 138 tons of petroleum-impacted soil was transported off site to the Rhino Environmental facility for disposal.

11.5 CONCLUSIONS AND RECOMMENDATIONS

A total of 388 tons (286.7 cu yds) of soil was excavated and removed from this site. All closure samples contained less than 1,000 mg/kg TRPH. NFA is recommended for this site.

12.0 SITE RESTORATION AT SWMU 132, FORMER BUILDING 21 DRAINAGE PIT

SWMU 132 is located adjacent to the northwest corner of Building 21, which was the former Entomology Shop (Figure 12-1). SWMU 132 is on Table 1 of the Base RCRA Part B permit. Activities planned for this site involved the removal of 78 cu yds of soil with TRPH and PCB concentrations exceeding the Base cleanup criteria.

SWMU 132 was investigated in the Table 1, Phase 1 RFI (Radian 1992) and the Table II, Phase I RFI (Radian 1994). Analytical results indicated that PCB and TRPH concentrations were above action criteria.

CNFA was recommended; the condition of NFA was the remediation of TRPH- and PCB-contaminated soil.

12.1 FIELD ACTIVITIES

Excavation activities began at SWMU 132 in October 1996. Approximately 20 cu yds of soil was excavated. The excavation was sampled, and analyzed for TRPH, OCPs, and PCBs. Analyses indicated that the PCB-Aroclor 1260 concentrations were above those required for closure. TRPH concentrations for all samples were below 1,000 mg/kg.

Excavation activities continued in November 1996. An additional 30 cu yds of soil was excavated. Five more sets of samples were taken and analyzed for TRPH, OCPs, and PCBs. Again, analyses indicated that PCB-Aroclor 1260 concentrations were above cleanup criteria, and TRPH concentrations were all below 1,000 mg/kg.

In December 1996, an additional 20 cu yds of soil was excavated. Five additional closure samples were taken and analyzed for TRPH, OCPs, and PCBs. Analyses showed all samples to be below the Base closure criteria for TRPH and PCBs.

12.2 SAMPLING AND ANALYSES

Representative samples of in-place and stockpiled soil were collected during restoration activities. The soil samples were collected and analyzed in accordance with Section 2.4

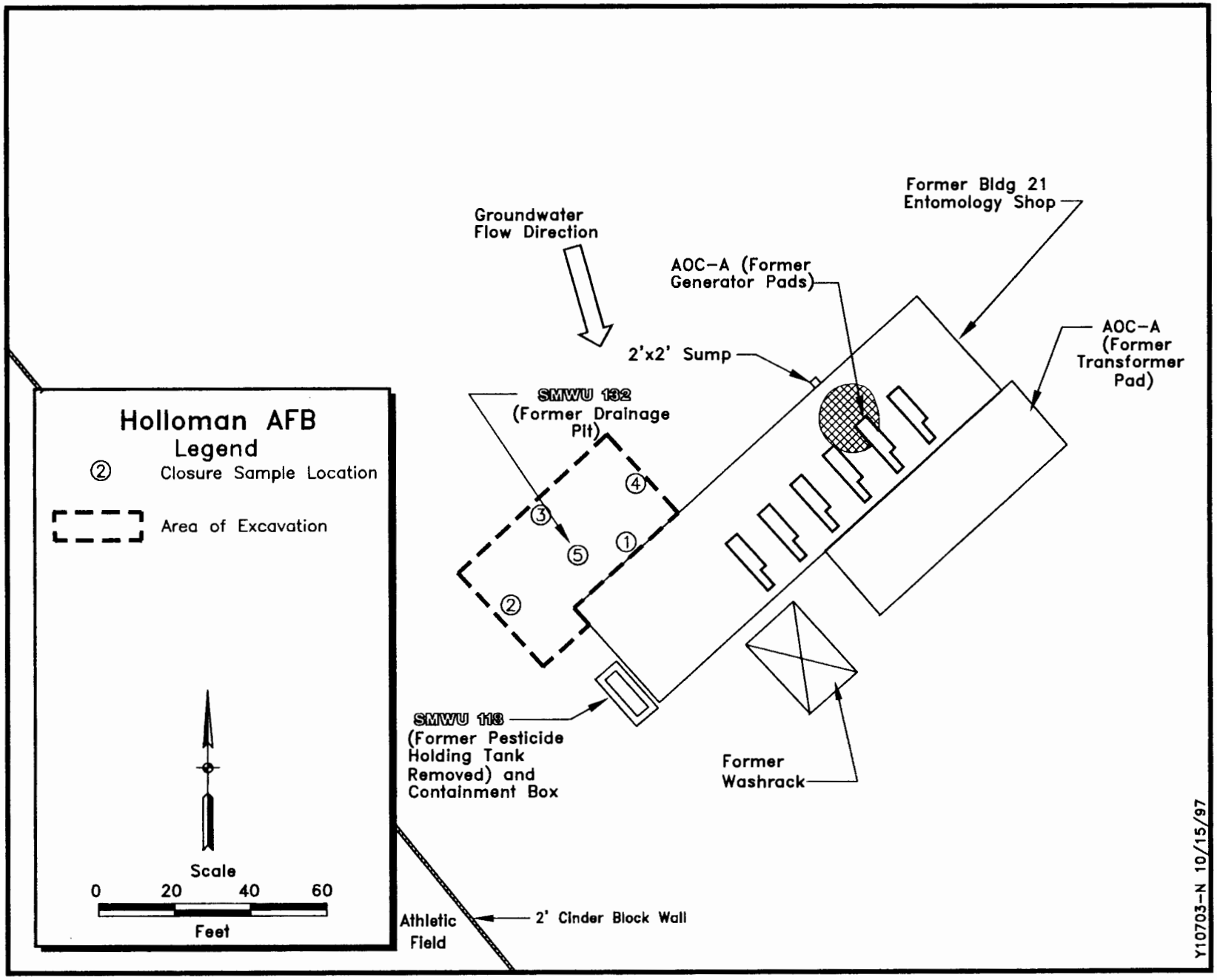


Figure 12-1. SWMU 132 and AOC A, Former Building 21 Drainage Pit Site Map

(Sampling and Analysis), the FSAP (Ebasco 1995a), and the Closure Report for Phase II Remediation for POL-Contaminated Sites (FWENC 1997). Laboratory analytical reports from GTEL are provided in Appendix B. Table 12-1 summarizes the analytical results for the site closure samples.

12.2.1 Site Closure Samples

Five closure samples were collected in December 19, 1996 from the excavation. As indicated in Figure 12-1, samples were collected from each of the walls and from the floor of the excavation. The analytical results, which represent in-place soil conditions upon completion of excavation, indicated all sample concentrations were less than those required for site closure (Table 12-1). TRPH and OCP/PCB concentrations were below the laboratory quantitation limits.

12.2.2 Soil Stockpile Samples

One soil stockpile sample was collected. Analyses showed PCB concentrations to be 3,100 mg/kg which is above Base cleanup criteria. Analysis showed that the TRPH concentration was below 1,000 mg/kg (410 mg/kg).

12.3 SITE RESTORATION

The site was backfilled, compacted, and covered with landscaping rock.

12.4 WASTE HANDLING AND DISPOSAL

82 cu yds (approximately 111 tons) of contaminated soil was transported off site to the Highway 36 Land Development Company in Deer Trail, Colorado. The waste disposal manifests are included in Appendix A.

12.5 CONCLUSIONS AND RECOMMENDATIONS

Approximately 111 tons (82 cu yds) of soil was excavated and removed from this site. All closure sample analyses indicated TRPH concentrations to be less than 1,000 mg/kg. Also, no OCP or PCB analytes were detected. NFA is recommended for this site.

Table 12-1
Summary of Site Closure and Stockpile Sample Analytical Results for Soil at SWMU 132, Former Building 21 Drainage Pit
Page 1 of 2

Sample I.D.	SWMU 132-01-4	SWMU132-02-4	SWMU132-03-4	SWMU132-04-4	SWMU132-05-5
Date Sampled	10/9/96	10/9/96	10/9/96	10/9/96	10/9/96
TRPH by Method 418.1 (mg/kg)	<20	71	<20	27	<20
OCPs by Method 8081 (µg/kg) alpha-chlordane (1,500)	<1.0	<10.0	<3.0	1.8	<1.0
gamma-chlordane (1,500)	<1.0	<10.0	<3.0	2.1	<1.0
beta-BHC (1,200)	<1.0	<10.0	<3.0	<1.0	1.2
PCBs by Method 8081 (µg/kg) Aroclor 1260	21	3,400	750	300	180

Sample I.D.	SWMU 132-01-4	SWMU132-02-4	SWMU132-03-4	SWMU132-04-4	SWMU132-05-5	SWMU132-SP*
Date Sampled	11/8/96	11/8/96	11/8/96	11/8/96	11/8/96	11/8/96
TRPH by Method 418.1 (mg/kg)	<20	<20	<20	<20	63	38
OCPs by Method 8081 (µg/kg) 4,4-DDT (5,600)	<25	<3.0	<1.0	<1.0	<35	410
alpha-chlordane[I] (1,500)	6.7	1.6	<1.0	<1.0	3.4	4.1
gamma-chlordane[I] (1,500)	2.0	1.8	<1.0	<1.0	<1.0	<1.0
endrin (200,000)	2.8	<1.0	<1.0	<1.0	<1.0	<1.0
heptachlor epoxide (200)	1.5	<1.0	<1.0	<1.0	<1.0	<1.0
PCBs by Method 8081 (µg/kg) Aroclor 1260	1,300	90	22	15	2,900	3,100
Flash Point by Method ASTM D93 (°F)	NA	NA	NA	NA	NA	>200

Notes:
* = Soil stockpile sample
< = Constituent not detected above laboratory quantitation limit
() = EPA Region VI risk-based criteria
I = Represents risk-based concentration for chlordane (total)
NA = Not analyzed
ND = Not detected
NP = Not present

Table 12-1 (continued)
Summary of Site Closure Sample Analytical Results for Soil at SWMU 132, Former Building 21 Drainage Pit
Page 2 of 2

Sample I.D.	SWMU 132-01-4	SWMU 132-02-4	SWMU132-03-4	SWMU132-04-4	SWMU132-05-5
Figure I.D.	1	2	3	4	5
Date Sampled	12/19/96	12/19/96	12/19/96	12/19/96	12/19/96
TRPH by Method 418.1 (mg/kg)	<20	<20	<20	<20	<20
OCPs/PCBs by Method 8081 (µg/kg)	ND	ND	ND	ND	ND

Notes:
Shading denotes final closure samples for this site
< = Constituent not detected above laboratory quantitation limit
() = EPA Region VI risk-based criteria
NA = Not analyzed
ND = Not detected

13.0 SITE RESTORATION AT SWMUS 17 AND 121, BUILDING 316 O/WS AND WOT

SWMUs 17 and 121 are located 5 ft northwest of Building 316 (Figure 13-1). The top of the O/WS was at ground level and covered with gravel. The WOT lies below grade and is also covered with gravel. The base of the O/WS was approximately 7.5 ft below ground level (bgl). Access to the site is limited by the presence of a large air-conditioning unit to the north, aboveground piping and a buried gas line to the east, concrete to the west, and Building 316 to the south.

SWMU 17 was investigated as part of the Table II, Phase I/II RFI (Radian 1994). All detected constituents were below risk-based action criteria. In addition, no contaminants of potential concern were identified during the risk screen, and all TRPH concentrations are below the New Mexico TRPH cleanup standard of 1,000 mg/kg for Holloman AFB. NFA was recommended for these SWMUs.

Activities planned for this site included the removal of a WOT, an O/WS, and 200 cu yds of TPH-contaminated soil. Backfilling and compaction with clean fill and replacement of landscaping rock was also scheduled.

13.1 FIELD ACTIVITIES

Initial site activities began in April 1996. The WOT and O/WS were removed. Closure samples were taken, and the excavation was quickly backfilled due to the depth of the excavation and the close proximity to surrounding structures. Sample analyses indicated the soil contained TRPH concentrations greater than 1,000 mg/kg.

The site was revisited in May and June 1997. In May 1997, a sample was taken at the soil/groundwater interface (4.0 ft) northeast of the site. In June 1997, the site was excavated to the groundwater table immediately west, north, and east of the O/WS and WOT.

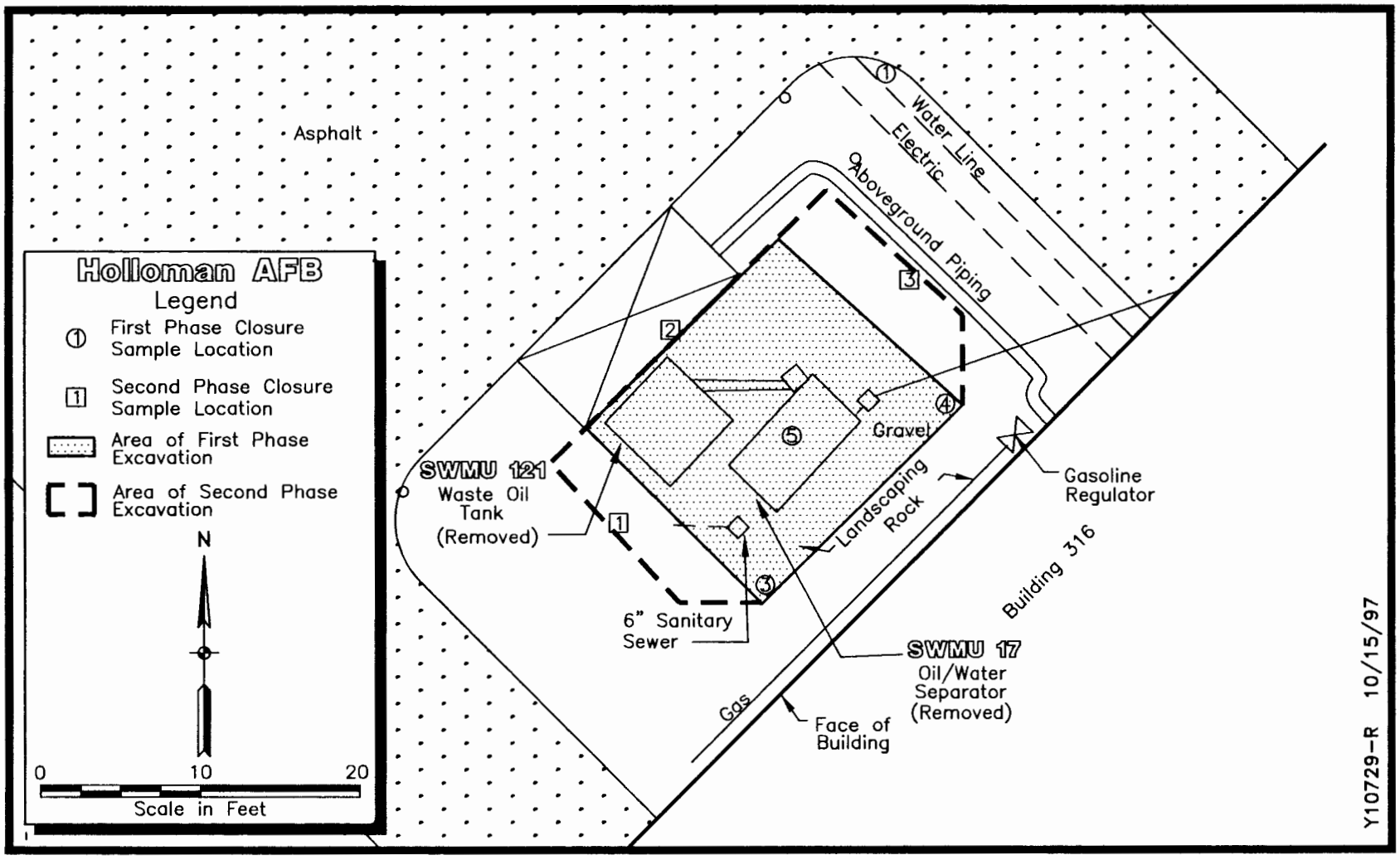


Figure 13-1. SWMUs 17 and 121, Building 316 Site Map

13.2 SAMPLING AND ANALYSIS

Representative samples of in-place and stockpiled soil were collected during restoration activities. The soil samples were collected and analyzed in accordance with Section 2.4 (Sampling and Analysis), the FSAP (Ebasco 1995a), and the Closure Report for Phase II Remediation of POL-Contaminated Sites (FWENC 1997). Laboratory analytical reports from GTEL are provided in Appendix B. Table 13-1 summarizes the analytical results for the site closure.

13.2.1 Site Closure Samples

As part of the first phase of the project, five closure samples were collected from both SWMUs 17 and 121 and analyzed for TRPH. The closure samples were collected from 7 ft bgl (1 to 3 ft below the groundwater table) around both SWMU 17 and SWMU 121. Seven of the ten samples had TRPH concentrations greater than the Base cleanup criteria.

During the second phase of the project, samples were taken outside the original excavation to the east, north, and west. These samples were taken at the soil/groundwater interface, which was at a depth of between 4.0 ft and 6.0 ft bgl. All of the analytical results, which represent in-place soil conditions upon completion of excavation, revealed concentrations less than Base cleanup criteria for all closure samples (ranging from not detected to 80 mg/kg). These samples, along with initial closure samples 17-03, 17-04, and 17-05 and interim closure sample SWMU 17/121-3 (non-detect value), show the site to be clean to the north, east, west, and south (Figure 13-1). The original two floor samples taken at a depth of 7 ft below grade were well below the groundwater table, which was determined to be between 4.0 and 6.0 ft bgl.

13.2.2 Soil Stockpile Samples

No soil stockpile samples were collected from SWMUs 17 and 121 during the first or second phase of construction because no contamination was detected by using field-screening techniques.

Table 13-1

Summary of Site Closure Sample Analytical Results at SWMUs 17/21, Building 316 O/WS and WOT

Sample I.D.	SWMU17/121-1-6	SWMU17/121-2-6	SWMU17/121-3-55	SWMU17/121-3	17-03	17-04	17-05
Figure I.D.	1	2	3	1	3	4	5
Date Sampled	6/2/97	6/2/97	6/2/97	5/16/97	4/24/96	4/24/96	4/24/96
TRPH by Method 418.1 (mg/kg)	80	43	<20	<20	23	58	110

Notes:
Shading denotes final closure samples for this site. All samples shown in this table represent site closure samples; unshaded samples were collected during earlier phases of construction
< = Constituent not detected above laboratory quantitation limit

13.3 SITE RESTORATION

After both phases of work were completed, the site was backfilled, compacted, and cleaned and landscaping rock was replaced. After restoration was complete, a USACE representative performed a final site inspection. A copy of the site completion inspection is included in Appendix C.

13.4 WASTE HANDLING AND DISPOSAL

No contaminated soil required off-site disposal from this site. The O/WS was decontaminated, broken into manageable pieces, and disposed as solid waste at the Lincoln/Otero County Landfill. The WOT was removed and disposed. The certificate of tank destruction is included in Appendix D.

13.5 CONCLUSIONS AND RECOMMENDATIONS

The OW/S and WOT were removed, 200 cu yds (270 tons) of TPH-contaminated soil was excavated and removed, and all closure samples from the second phase, samples 17-03, 17-04, and 17-05 from the first phase, and Sample 17/121-3 from the May 1997 sampling event indicate petroleum contamination extends no further to the east, west, south, or north. Also, all contaminated soil was removed to a depth below the groundwater table. Therefore, NFA is recommended for this site.

14.0 SITE RESTORATION AT AOC-A, FORMER BUILDING 21 ENTOMOLOGY SHOP

AOC-A is part of the former Entomology Shop (Building 21, IRP Site OT-16) (Figure 14-1). AOC-A is on Table I of the Base RCRA Part B permit and was investigated as part of the Table I, Phase I RFI (Radian 1992).

Analyses from the Phase II investigation indicated that TRPH concentrations at AOC-A exceeded 1,000 mg/kg (Radian 1995a). The RFI recommendation was CNFA; the condition of NFA was the remediation of TRPH-contaminated soil.

Activities planned for this site included the excavation of PCS having TRPH concentrations greater than 1,000 mg/kg.

14.1 FIELD ACTIVITIES

Excavation activities began in October 1996 and 107 tons (79 cu yds) of PCS was removed.

14.2 SAMPLING AND ANALYSIS

Representative samples of in-place and stockpiled soil were collected during restoration activities. The soil samples were collected and analyzed in accordance with Section 2.4 (Sampling and Analysis), the FSAP (Ebasco 1995a), and the Closure Report for Phase II Remediation of POL-Contaminated Sites (FWENC 1997). Laboratory analytical reports from GTEL are provided in Appendix B. Table 14-1 summarizes the analytical results for the site closure samples.

14.2.1 Site Closure Samples

Seven closure samples were taken from the side walls and bottom of the excavation (Figure 14-1). The closure samples were analyzed for TRPH. Analytical results, which represent in-place soil conditions upon completion of excavation, revealed TRPH levels less than 1,000 mg/kg for all closure samples, ranging from not detected to 370 mg/kg.

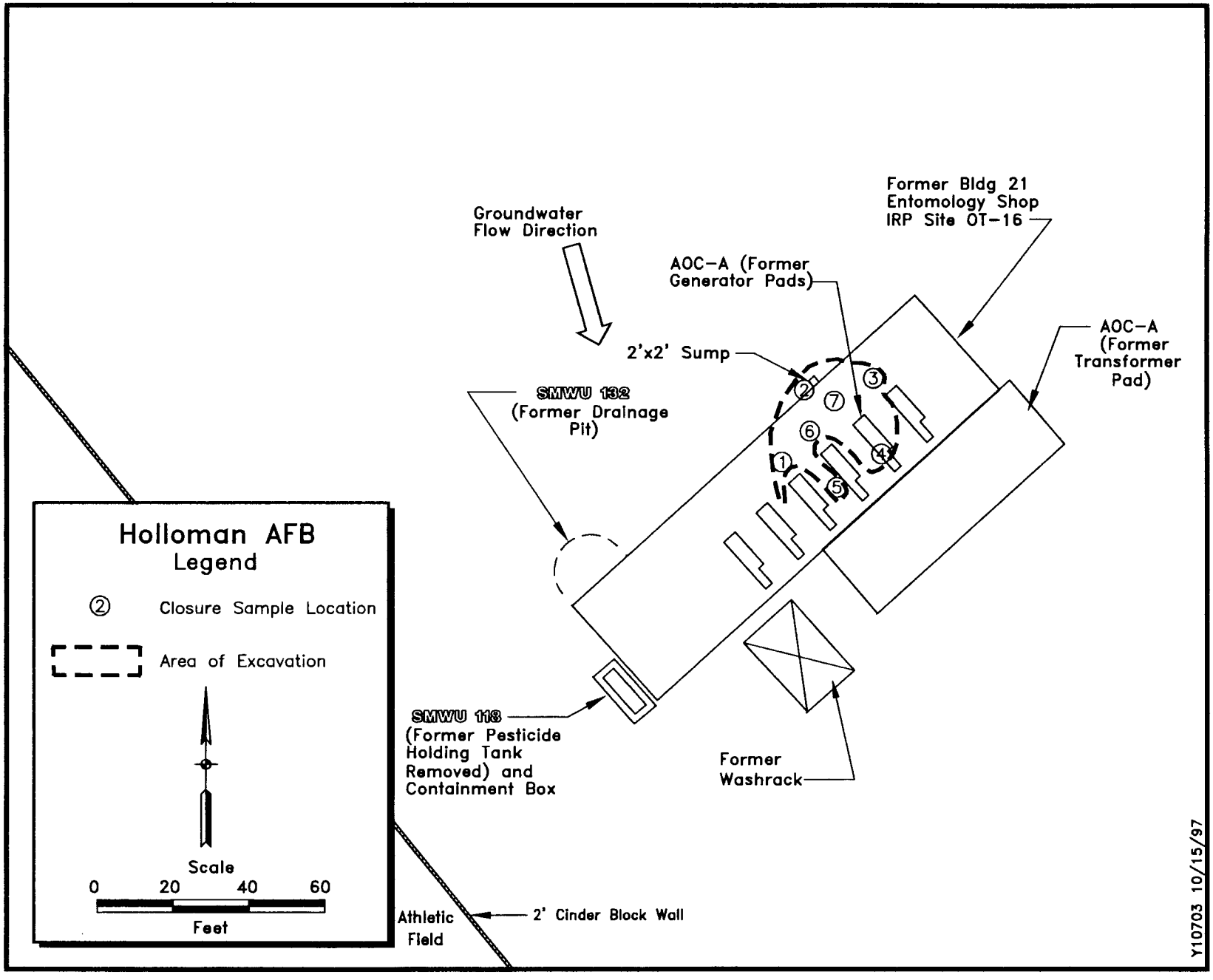


Figure 14-1. AOC-A, Former Building 21 Entomology Shop Site Map

Table 14-1

Summary of Site Closure and Stockpile Sample Analytical Results at AOC-A, Former Building 21 Entomology Shop

Sample I.D.	AOC-A-5-1	AOC-A-5-2	AOC-A-5-3	AOC-A-5-4	AOC-A-5-5	AOC-A-5-6	AOC-A-6-7	AOC-A-SP*
Figure I.D.	1	2	3	4	5	6	7	—
Date Sampled	10/9/96	10/9/96	10/9/96	10/9/96	10/9/96	10/9/96	10/9/96	10/9/96
TRPH by Method 418.1 (mg/kg)	20	33	27	20	<20	370	20	74,000
Flash Point by Method ASTM D93 (°F)	NA	NA	NA	NA	NA	NA	NA	<200

Notes:
* = Soil stockpile sample
< = Constituent not detected above laboratory quantitation limit

14.2.2 Soil Stockpile Samples

One soil stockpile sample was collected and analyzed for TRPH. The analytical results for this sample showed the TRPH concentration to be greater than 1,000 mg/kg (74,000 mg/kg).

14.3 SITE RESTORATION

Site restoration activities included the backfilling, compaction, cleaning of the site, and the replacement of landscaping rock. Following site restoration, a USACE representative performed a final site inspection. A copy of the site inspection closure report is included in Appendix C.

14.4 WASTE HANDLING AND DISPOSAL

Approximately 107 tons of PCS was transported off site to the Rhino Environmental facility for disposal.

14.5 CONCLUSIONS AND RECOMMENDATIONS

A total of 107 tons (79 cu yds) of soil was excavated and removed from this site. All closure samples contained less than 1,000 mg/kg TRPH. NFA is recommended for this site.

15.0 DATA QUALITY CONTROL SUMMARY REPORT

The analytical program for the Phase II remediation of POL-contaminated sites and O/WS and WOT removals at Holloman AFB consisted of chemical testing performed by GTEL, located in Wichita, Kansas. Analytical methods for chemical analysis were taken from the latest revision of EPA Test Methods for Evaluating Solid Waste, SW-846 Third Edition (EPA 1986); and American Society for Testing and Materials (ASTM), Annual Book of ASTM Standards, 1983 revision. The following specific analytical methods were used for this program:

- TRPH – Method 9071/418.1
- VOCs (BTEX) – Method 8021A
- VOCs – Method 8240B
- SVOCs – Method 8270B
- OCPS and PCBs – Methods 8080, 8081
- Total Metals – Methods 6010A, 7060, 7421, 7471A, 7740, 7841
- TCLP metals, VOCs, and SVOCs, – Extraction Method 1311, Analysis Methods 6010A, 7470, 8240A, 8270B
- Reactive Cyanide and Sulfide – Method 9010A, Chapter 7.3.4.2
- Paint Filter Liquids – Method 9095
- Flash Point – ASTM D93
- Corrosivity (pH) – Method 9045B

15.1 DATA VALIDATION

The data validation procedure used for the Phase II remediation of POL-contaminated sites and O/WS and WOT removals is in accordance with the EPA Contract Laboratory Program National Functional Guidelines for Organic and Inorganic Data Review (EPA 1994a, b). One hundred percent of the analytical data were reviewed for the following criteria:

- Completeness of data deliverables
- Extraction and analysis holding times
- Calibration verification

- Blanks (method and trip)
- System monitoring compounds (surrogate recoveries)
- Matrix spike/matrix spike (MS/MSD) duplicate recovery
- Laboratory control sample (LCS) recovery
- Overall data assessment

15.2 DATA PRESENTATION AND EVALUATION

The types of laboratory QC samples associated with the Phase II remediation of POL-contaminated sites, and O/WS and WOT removals include method blanks, LCSs and duplicates, and MS/MSD samples. These QC samples are used to measure the analytical method precision and accuracy. The results of the laboratory QC sample data are summarized below.

15.2.1 Laboratory Method Blank Samples

Laboratory method blank samples were analyzed with each batch of field samples for each analytical method with the exception of flash point, paint filter liquids, and corrosivity. Method blank detections were evaluated as part of the validation process. No detections were reported in the method blank samples for SVOCs, pesticides, PCBs, BTEX, TRPH, and metals.

One VOC, methylene chloride, was detected in one method blank sample at 10.7 micrograms per liter (μg/L). There were also detections of methylene chloride in one trip blank at 11 μg/L, and two field samples from SWMU 3 at 10 μg/L and 12 μg/L. The three methylene chloride detections are considered laboratory contamination based on the method blank data.

15.2.2 Volatile Organic Trip Blank Samples

Trip blank samples were shipped with each cooler containing samples for volatile organic analysis. One VOC, methylene chloride, was detected in a trip blank sample at 11 μg/L. Approximately the same concentration was reported in the associated method blank sample, indicating minimal contamination of the field samples occurred during shipment from the field, storage at the laboratory, sample preparation, and analysis.

15.2.3 Laboratory Control Samples

Laboratory control samples (LCS) were analyzed with each batch of field samples for each analytical method with the exception of flash point, corrosivity, and paint filter liquids. LCS spike recoveries reported at concentrations above or below the method-specific control limits require examination of those analytes in the associated field samples.

LCS recoveries for all analytical parameters were within the method-specific control limits with the following exceptions:

- One of three pesticide recoveries for endrin aldehyde at 53.2 percent for sample batch W6100199.
- One of the 14 TCLP SVOC recoveries for 1,4-dichlorobenzene at 102.9 percent for sample batch W6090371.
- One of the two TCLP metal recoveries for silver at 60.7 percent for sample batch W6090371.

Analytical data were not compromised as a result of the above spike recoveries. Analytical procedures were determined to have been in control at the time of analysis.

15.2.4 Matrix Spike Samples

Laboratory matrix spike samples were analyzed at a frequency of 10 percent for each analytical method. Matrix spike sample recoveries were evaluated in conjunction with the LCS sample recoveries to assess the quality of the analytical data as discussed in the following sections. Matrix spike samples were not analyzed for flash point, corrosivity, and paint filter liquids methods.

15.2.4.1 Volatile Organic Compounds

Twelve soil and one water matrix spike samples were analyzed for BTEX. The recoveries for 11 of the 13 matrix spike samples were within the method-specific control limits for the BTEX analytes. Two of the matrix spike recoveries for benzene in sample batch W6090072 were below the method control limits at 72 and 73 percent. The LCS recoveries associated with this batch of

samples are within the control limits. Four soil matrix spike samples were analyzed for VOCs. The recoveries for all of the matrix spike samples were within the method-specific control limits. Matrix spike recoveries for BTEX and VOCs indicate minimal matrix interference associated with the sample analysis.

15.2.4.2 Semivolatile Organic Compounds

Four soil matrix spike samples were analyzed for SVOCs. The recoveries for all of the matrix spike samples were within the method-specific control limits, indicating no matrix interference associated with the sample analysis.

15.2.4.3 Total Recoverable Petroleum Hydrocarbons

Thirty-six soil matrix spike samples were analyzed for TRPH. Thirteen of the 36 matrix spike recoveries were above or below the method control limits of 42 to 141 percent. The TRPH concentration in these samples was extremely high compared to the spike concentrations. The LCS recoveries associated with these sample batches are within the control limits. Matrix spike recoveries for TRPH indicate minimal matrix interference associated with the sample analysis.

15.2.4.4 Polychlorinated Biphenyls

Eight soil matrix spike samples were analyzed for PCBs. Three of the eight matrix spike recoveries were above the method upper control limit at 138, 134, and 130 percent. The LCS recoveries associated with these sample batches are within the control limits; matrix spike recoveries for PCBs indicate minimal matrix interference associated with the sample analysis.

15.2.4.5 Pesticides

Eight soil matrix spike samples were analyzed for pesticides. Two of the eight matrix spike recoveries were low for endrin aldehyde at 7.89 and 11.6 percent recovery for sample batch W6120390. Two of the eight matrix spike recoveries for endosulfan sulfate were below the lower control limit due to the high concentration of endosulfan sulfate in the samples. Four of the eight matrix spike recoveries for p,p-DDT were below the lower control limit due to the high

concentration of p,p-DDT in the samples. The LCS recoveries associated with these sample batches are within the control limits with the exception of one endrin aldehyde LCS recovery at 53.2 percent for sample batch W6100199. Matrix spike recoveries for pesticides and PCBs indicate minimal matrix interference associated with the sample analysis.

15.2.4.6 Metals

Eight lead, four target analyte list (TAL), and six RCRA soil matrix spike samples were analyzed. Five of eight matrix spike recoveries for lead were below the 75 percent lower control limit due to the high concentration of lead in the associated samples. Four of the four TAL matrix spike recoveries for manganese were below the lower control limit. Two of the four TAL matrix spike recoveries for barium, potassium, mercury, and sodium were below the lower control limit. One of the four TAL matrix spike recoveries for silver was below the lower control limit. The low TAL matrix spike recoveries were due to the high concentration of these metals in the associated samples.

The following matrix spike recoveries for RCRA metals in soil were below the lower control limit due to the concentration in the sample:

- Five of six lead matrix spike recoveries below 75 percent
- Four of six mercury matrix spike recoveries below 75 percent
- One of six silver matrix spike recoveries below 80 percent

The LCS recoveries associated with these sample batches are within the control limits. Matrix spike recoveries for metals indicate minimal matrix interference associated with the sample analysis and reflect spike recoveries outside of the control limits due to concentrations of metals in the field samples.

15.2.4.7 Toxicity Characteristic Leaching Procedure

TCLP analysis was run for VOCs, SVOCs, and metals. One of the 12 VOC matrix spike recoveries for tetrachloroethylene for sample batch W6090072 was above the upper control limit at 181 percent. The following matrix spike recoveries for TCLP SVOCs were just above the upper control limit:

- Three of the 12 matrix spike recoveries for 1,4-dichlorobenzene above 97 percent
- Four of the 12 matrix spike recoveries for pentachlorophenol above 103 percent

One of the four TCLP metals matrix spike recoveries for silver was below the lower control limit at 79.5 percent for sample batch W6090371. The LCS recoveries associated with these sample batches exhibited few recoveries outside the control limits. Matrix spike recoveries for TCLP indicate minimal matrix interference associated with the sample analysis.

15.2.4.8 Cyanide and Sulfide Reactivity

Fourteen soil matrix spike samples were analyzed for cyanide and sulfide reactivity. Six of the 14 recoveries for sulfide were below the lower control limit. All matrix spike recoveries for cyanide were within the control limits. The LCS recoveries associated with these batches are within the control limits. Reactivity recoveries for sulfide indicate potential matrix interference associated with the sample analysis. Reactivity recoveries for cyanide indicate no matrix interference associated with sample analysis.

15.3 FIELD SAMPLE DUPLICATE COMPARISON

Four split field samples collected at IRP site OT-44 and were submitted to the laboratory as blind duplicate samples and analyzed for TRPH. Analytical results and the relative percent difference (RPD) for these analyses are presented in Table 8.1. RPD calculations are performed to measure the precision of duplicate analytical results. The RPD values exceed the method RPD acceptance limit of 50 percent for one of the four duplicate samples. As indicated in Table 8.1 the RPD limit was exceeded for samples OT-44-01 and OT-44-10 with an RPD of 67 percent.

The exceedances of the RPD limit may result from soil sample heterogeneity or matrix interference. Soil sample matrices can also interfere with the extraction of the compounds of interest. Matrix affinity in the soil can result in less efficient extraction of a compound; therefore, the reported analytical result could be biased low.

15.4 Data Usability

Review of the QC data associated with the field sample data indicates project measurement data are reliable and fulfill project data quality objectives. Precision and accuracy data point to no potential limitations within the analytical data. A data completeness objective of 100 percent has been achieved for the Phase II remediation of POL-contaminated sites and O/WS and WOT removals at Holloman AFB. Precision and accuracy data are acceptable, and valid conclusions may be drawn from the field sample data.

16.0 REFERENCES

ASTM (American Standard for Testing and Materials)

1994 Emergency Standard Guide for Risk-Based Corrective Action Applied at Petroleum Release Sites, ASTM Committee E-50, Environmental Assessment, ASTM Designation: ES 38-94, Published July 1994; edition approved May 27, 1994.

EBASCO (Ebasco Environmental Corporation)

1995a Project Plans (Work Plan, Field Sampling and Analysis Plan, Contractor Quality Control Plan, and Quality Assurance Project Plan) for the Remediation of POL-Contaminated Sites and O/WS Removals, Holloman Air Force Base, New Mexico, June.

1995b Holloman Air Force Base, Basewide Site Safety and Health Plan, September.

1995c Draft Final Work Plan Addendum for Phase II Remediation of POL-Contaminated Sites and O/WS and WOT Removals, Holloman Air Force Base, New Mexico, December.

EBASCO and GTI (Ebasco Environmental Corporation and Groundwater Technology)

1996 Closure Report for Remediation of POL-Contaminated Sites and Oil/Water Separator Removals, Holloman Air Force Base, New Mexico.

EPA (Unites States Environmental Protection Agency)

1994a Contract Laboratory Program National Functional Guidelines for Organic Data Review, February 1994. EPA540/R-94/012.

1994b Contract Laboratory Program National Functional Guidelines for Inorganic Data Review, February 1994. EPA540/R-94/013.

1986 Test Methods for Evaluating Solid Waste, Third Edition.

FWENC (Foster Wheeler Environmental Corporation)

1997 Final Closure Report for Phase II Remediation of POL-Contaminated Sites and Oil/Water Separator and Waste Oil Tank, Holloman Air Force Base, New Mexico.

GTI (Groundwater Water Technology)

1995 Remediation of POL-Contaminated Soils and Oil/Water Separation Removals, Holloman Air Force Base, New Mexico, June.

Radian

1995a Table 1 RCRA Facility Investigation Report, Holloman Air Force Base, New Mexico, June.

1995b Table 3 RCRA Facility Investigation Report, Holloman Air Force Base, New Mexico, July.

1994 Table 2 RCRA Facility Investigation Report, Holloman Air Force Base, New Mexico, October.

1992 RI Report – Investigation, Study, and Recommendation for 29 Waste Sites, Holloman Air Force Base, New Mexico, October.

APPENDIX A

WASTE MANIFESTS

APPENDIX A

SWMU 3

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.

Manifest Document No. R01417

2. Page 1 of 1 — 530-112

3. Generator's Name and Mailing Address

49 CES / CEV

Holloman Air Force Base
Holloman AFB, NM

SMU-3
SPA 11

4. Generator's Phone (505) 475-5395

5. Transporter 1 Company Name — Rhino Environmental Services

6. US EPA ID Number — N/A

7. Transporter 2 Company Name

8. US EPA ID Number

9. Designated Facility Name and Site Address

Rhino Environmental Services DP-1051
1 Mile NW of Newman, NM
Section 22.3, T26S, R6E, Otero County

10. US EPA ID Number

A. Transporter's Phone

B. Transporter's Phone 505-392-4490

C. Facility's Phone 505-392-4490

11. Waste Shipping Name and Description	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
a. Hydrocarbon Contaminated Soils	1	Pull	70.53	
b.				
c.				

D. Additional Descriptions for Materials Listed Above

Non-Hazardous Materials

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

CELL L

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name	Signature	Month	Day	Year
WARREN NEFF	[signature]	10	4	96

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
Dulce A. Gutierrez	[signature]	10	4	96

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name	Signature	Month	Day	Year
George Gallis	[signature]	10	4	96

GENERATOR → TRANSPORTER → FACILITY

No 12490 STATE CERTIFICATE OF WEIGHTS AND MEASURES

DRIVER'S WEIGHT CERTIFICATE

NAME OF CARRIER (BEKINS MOVING & STGE.) (BEKINS VAN LINES)

OTHER CARRIER Chino

Vehicle Identification 530-112

Name of Shipper

Origin of Shipment Destination of Shipment

114,120 lbs. Gross — Gross weight of loaded vehicle, with driver only, thereon.

38,600 lbs. Tare — Tare weight of vehicle, with driver only, thereon, including full gasoline tank and all necessary pads, chains, dollies, hand trucks, and other equipment.

75,520 lbs. Net — Net weight of the shipment.

THIS FORM PRESCRIBED BY INTERSTATE COMMERCE COMMISSION
EX PARTE - MC - 19
AS AMENDED EFFECTIVE JUNE 1, 1970

Signed M. Parraude
Weighmaster

The gross and tare weights were obtained at scales

NMDA APPROVED

GROSS	NAME OF SCALE OWNER	(BEKINS M & S) /	(BEKINS MOVING & STGE.)
	LOCATION	2315 S. Valley Dr. Las Cruces, N. M. /	US 70 W Alamogordo, N. M.
TARE	NAME OF SCALE OWNER	(BEKINS M & S) /	(BEKINS MOVING & STGE.)
	LOCATION	2315 S. Valley Dr. Las Cruces, N. M. /	US 70 W Alamogordo, N. M.

As shown by attached weight ticket(s) prepared by the weighmaster.

(Attach only gross weight ticket if tare weight is obtained from a weight ticket on shipments listed below.)

DRIVER ON ☐ OFF ☒

Chg 500

(LIST OF SHIPMENTS, IF ANY, ON VEHICLE AT TIME ABOVE WEIGHTS WERE OBTAINED)

SHIPPER	NET WEIGHT

I CERTIFY THE ABOVE ENTRIES ARE TRUE AND CORRECT.

DATE 10-4-96 B/L No.

(Driver's Signature)

NON-HAZARDOUS WASTE MANIFEST	1. Generator's US EPA ID No.	Manifest Document No.	2. Page 1 of	54 -113

3. Generator's Name and Mailing Address

Holloman Air Force Base
Holloman AFB, NM

4. Generator's Phone ( )

5. Transporter 1 Company Name	6. US EPA ID Number
Rhino Environmental Services	N/A
7. Transporter 2 Company Name	8. US EPA ID Number

9. Designated Facility Name and Site Address	10. US EPA ID Number
Rhino Environmental Services DR-1051 1 Mile NW of Newman, NM Section 22.3, T26S, R6E, Otero County	

A. Transporter's Phone
B. Transporter's Phone 505-392-4498
C. Facility's Phone 505-392-4498

11. Waste Shipping Name and Description	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
a. Hydrocarbon Contaminated Soils	1	Bulk	[illegible]	
b.				
c.				
d.				

D. Additional Descriptions for Materials Listed Above

Non-Hazardous Materials

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name	Signature	Month	Day	Year
WARREN NEFF	[signature]	[illegible]	[illegible]	96

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
[illegible]	[signature]	[illegible]	[illegible]	95

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name	Signature	Month	Day	Year
George Goins	[signature]	10	04	20

GENERATOR

TRANSPORTER

FACILITY

12-BLS-C5 Rev. 4/94

GENERATOR'S COPY

№ 12489 STATE CERTIFICATE OF WEIGHTS AND MEASURES

DRIVER'S WEIGHT CERTIFICATE

NAME OF CARRIER (BEKINS MOVING & STGE.) (BEKINS VAN LINES)

OTHER CARRIER Rhino

Vehicle Identification 540-113

Name of Shipper

Origin of Shipment Destination of Shipment

87270
32390
54,890

lbs. Gross — Gross weight of loaded vehicle, with driver only, thereon.

lbs. Tare — Tare weight of vehicle, with driver only, thereon, including full gasoline tank and all necessary pads, chains, dollies, hand trucks, and other equipment.

lbs. Net — Net weight of the shipment.

THIS FORM PRESCRIBED BY INTERSTATE COMMERCE COMMISSION
EX PARTE - MC - 19
AS AMENDED EFFECTIVE JUNE 1, 1970

Signed M. Pattenaude
Weighmaster

The gross and tare weights were obtained at scales

NMDA APPROVED

GROSS	NAME OF SCALE OWNER	(BEKINS M & S) /	(BEKINS MOVING & STGE.)
	LOCATION	2315 S. Valley Dr. Las Cruces, N. M. /	US 70 W Alamogordo, N. M.
TARE	NAME OF SCALE OWNER	(BEKINS M & S) /	(BEKINS MOVING & STGE.)
	LOCATION	2315 S. Valley Dr. Las Cruces, N. M. /	US 70 W Alamogordo, N. M.

As shown by attached weight ticket(s) prepared by the weighmaster.

(Attach only gross weight ticket if tare weight is obtained from a weight ticket on shipments listed below.)

DRIVER ON ☐ OFF ☒

Ch4 500

(LIST OF SHIPMENTS, IF ANY, ON VEHICLE AT TIME ABOVE WEIGHTS WERE OBTAINED)

SHIPPER	NET WEIGHT

I CERTIFY THE ABOVE ENTRIES ARE TRUE AND CORRECT.

DATE 10-4-96 B/L No. George Gino (Driver's Signature)

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.

Manifest Document No. 801410

2. Page 1 of 1 — 530-112

3. Generator's Name and Mailing Address

Holloman Air Force Base
Holloman AFB, NM

4. Generator's Phone

5. Transporter 1 Company Name — Rhino Environmental Services

6. US EPA ID Number — N/A

7. Transporter 2 Company Name

8. US EPA ID Number

9. Designated Facility Name and Site Address — Rhino Enviromental Services DP-1051
1 mile NW of Noman, NM
Section 21.3, T20S, R6E, Ocotillo County

10. US EPA ID Number

A. Transporter's Phone

B. Transporter's Phone 505-392-4498

C. Facility's Phone 505-392-4898

11. Waste Shipping Name and Description	12. Containers No.	Type	13 Total Quantity	14. Unit Wt/Vol
a. Hydrocarbon Contaminated Soils	1	Bulk	10 CY	
b.				
c.				
d.				

D. Additional Descriptions for Materials Listed Above

Non-Hazardous Materials

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

Cell L

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name: WARREN NEFF — Signature: [signature] — Month 10 Day 11 Year 96

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: [illegible] — Signature: [signature] — Month 10 Day 11 Year 96

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name — Signature — Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name: George Gains — Signature: [signature] — Month 10 Day 11 Year 96

GENERATOR — TRANSPORTER — FACILITY

GENERATOR'S COPY

12-BLS-C5 Rev. 4/94

№ 12487 STATE CERTIFICATE OF WEIGHTS AND MEASURES

DRIVER'S WEIGHT CERTIFICATE

NAME OF CARRIER (BEKINS MOVING & STGE.) (BEKINS VAN LINES)

OTHER CARRIER Rhein

Vehicle Identification 530-112

Name of Shipper

Origin of Shipment Destination of Shipment

108,780	lbs. Gross	Gross weight of loaded vehicle, with driver only, thereon.
38,600	lbs. Tare	Tare weight of vehicle, with driver only, thereon, including full gasoline tank and all necessary pads, chains, dollies, hand trucks, and other equipment.
70,180	lbs. Net	Net weight of the shipment.

THIS FORM PRESCRIBED BY INTERSTATE COMMERCE COMMISSION
EX PARTE - MC - 19
AS AMENDED EFFECTIVE JUNE 1, 1970

Signed M. Portmeade Weighmaster

The gross and tare weights were obtained at scales NMDA APPROVED

GROSS	NAME OF SCALE OWNER	(BEKINS M & S) /	(BEKINS MOVING & STGE.)
	LOCATION	2315 S. Valley Dr. Las Cruces, N. M. /	US 70 W Alamogordo, N. M.
TARE	NAME OF SCALE OWNER	(BEKINS M & S) /	(BEKINS MOVING & STGE.)
	LOCATION	2315 S. Valley Dr. Las Cruces, N. M. /	US 70 W Alamogordo, N. M.

As shown by attached weight ticket(s) prepared by the weighmaster.

(Attach only gross weight ticket if tare weight is obtained from a weight ticket on shipments listed below.)

DRIVER ON ☐ OFF ☒

Pkg 500

(LIST OF SHIPMENTS, IF ANY, ON VEHICLE AT TIME ABOVE WEIGHTS WERE OBTAINED)

SHIPPER	NET WEIGHT

I CERTIFY THE ABOVE ENTRIES ARE TRUE AND CORRECT.

DATE 10-4-96 B/L No. Duke Sterling (Driver's Signature)

NON-HAZARDOUS WASTE MANIFEST	1. Generator's US EPA ID No.	Manifest Document No. R01409	2. Page 1 of 1	540-113

3. Generator's Name and Mailing Address

Holloman Air Force Base
Holloman AFB, NM

4. Generator's Phone ( )

5. Transporter 1 Company Name	6. US EPA ID Number
Rhino Environmental Services	N/A
7. Transporter 2 Company Name	8. US EPA ID Number

9. Designated Facility Name and Site Address	10. US EPA ID Number	
Rhino Environmental Services DP-1051 1 Mile NW of Newman, NM Section 22.3, T26S, R6E, Otero County		A. Transporter's Phone B. Transporter's Phone 505-392-4498 C. Facility's Phone 505-392-4898

11. Waste Shipping Name and Description	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
a. Hydrocarbon Contaminated Soils	1	Bulk	57,390	
b.				
c.				
d.				

D. Additional Descriptions for Materials Listed Above

Non-Hazardous Materials

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name	Signature	Month	Day	Year
WARREN NEFF	Warren Neff	10	04	96

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
George Goins	George Goins	10	04	96

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name	Signature	Month	Day	Year
George Goins	George Goins	10	04	96

GENERATOR → TRANSPORTER → FACILITY

ORIGINAL – RETURN TO GENERATOR

№ 12486 STATE CERTIFICATE OF WEIGHTS AND MEASURES

DRIVER'S WEIGHT CERTIFICATE

NAME OF CARRIER (BEKINS MOVING & STGE.) (BEKINS VAN LINES)

OTHER CARRIER ~~BH~~ Rhino MBP

Vehicle Identification 540-113

Name of Shipper

Origin of Shipment Destination of Shipment

89770
32380
57390

lbs. Gross — Gross weight of loaded vehicle, with driver only, thereon.

lbs. Tare — Tare weight of vehicle, with driver only, thereon, including full gasoline tank and all necessary pads, chains, dollies, hand trucks, and other equipment.

lbs. Net — Net weight of the shipment.

THIS FORM PRESCRIBED BY INTERSTATE COMMERCE COMMISSION
EX PARTE - MC - 19
AS AMENDED EFFECTIVE JUNE 1, 1970

Signed M. Parnaude
Weighmaster

The gross and tare weights were obtained at scales

NMDA APPROVED

GROSS	NAME OF SCALE OWNER	(BEKINS M & S) /	(BEKINS MOVING & STGE.)
	LOCATION	2315 S. Valley Dr. Las Cruces, N. M. /	US 70 W Alamogordo, N. M.
TARE	NAME OF SCALE OWNER	(BEKINS M & S) /	(BEKINS MOVING & STGE.)
	LOCATION	2315 S. Valley Dr. Las Cruces, N. M. /	US 70 W Alamogordo, N. M.

As shown by attached weight ticket(s) prepared by the weighmaster.

(Attach only gross weight ticket if tare weight is obtained from a weight ticket on shipments listed below.)

DRIVER ON ☐ OFF ☒

Chg 5.00

(LIST OF SHIPMENTS, IF ANY, ON VEHICLE AT TIME ABOVE WEIGHTS WERE OBTAINED)

SHIPPER	NET WEIGHT

I CERTIFY THE ABOVE ENTRIES ARE TRUE AND CORRECT.

DATE 10-4-96 B/L No. George Gains (Signature)

Please print or type.
(Form designed for use on elite (12-pitch) typewriter.)

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.

Manifest Document No. 50140

2. Page 1 of 1

530-112

3. Generator's Name and Mailing Address

Holloman Air Force Base
Holloman AFB, NM

4. Generator's Phone

5. Transporter 1 Company Name

Rhino Environmental Services

6. US EPA ID Number

7. Transporter 2 Company Name

8. US EPA ID Number

9. Designated Facility Name and Site Address

Rhino Environmental Services DP-1051
1 Mile NW of Nesmith, NM
Section 22-3, T16S, R6E, Otero County

10. US EPA ID Number

A. Transporter's Phone

B. Transporter's Phone 505-392-4426

C. Facility's Phone

11. Waste Shipping Name and Description	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
a. Hydrocarbon Contaminated Soils	3	Bulk	12.0	[illegible]
b.				
c.				
d.				

GENERATOR

D. Additional Descriptions for Materials Listed Above

Non-Hazardous Materials

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

CELL 4

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name	Signature	Month	Day	Year
WARREN NEFF	Warren Neff			

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
Duke A Gutierrez	[illegible]	10	11	96

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name	Signature	Month	Day	Year
George Goins	George Goins	10	11	96

12-BLS-C5 Rev. 4/94

GENERATOR'S COPY

№ 12484 STATE CERTIFICATE OF WEIGHTS AND MEASURES

DRIVER'S WEIGHT CERTIFICATE

NAME OF CARRIER (BEKINS MOVING & STGE.) (BEKINS VAN LINES)

OTHER CARRIER Rhino

Vehicle Identification 530-112

Name of Shipper

Origin of Shipment Destination of Shipment

80730
38600
42130

lbs. Gross — Gross weight of loaded vehicle, with driver only, thereon.

lbs. Tare — Tare weight of vehicle, with driver only, thereon, including full gasoline tank and all necessary pads, chains, dollies, hand trucks, and other equipment.

lbs. Net — Net weight of the shipment.

THIS FORM PRESCRIBED BY INTERSTATE COMMERCE COMMISSION
EX PARTE - MC - 19
AS AMENDED EFFECTIVE JUNE 1, 1970

Signed M. Patterson
Weighmaster

The gross and tare weights were obtained at scales

NMDA APPROVED

GROSS	NAME OF SCALE OWNER	(BEKINS M & S) /	(BEKINS MOVING & STGE.)
	LOCATION	2315 S. Valley Dr. Las Cruces, N. M. /	US 70 W Alamogordo, N. M.
TARE	NAME OF SCALE OWNER	(BEKINS M & S) /	(BEKINS MOVING & STGE.)
	LOCATION	2315 S. Valley Dr. Las Cruces, N. M. /	US 70 W Alamogordo, N. M.

As shown by attached weight ticket(s) prepared by the weighmaster.

(Attach only gross weight ticket if tare weight is obtained from a weight ticket on shipments listed below.)

DRIVER ON ☐ OFF ☒

Chg 500

(LIST OF SHIPMENTS, IF ANY, ON VEHICLE AT TIME ABOVE WEIGHTS WERE OBTAINED)

SHIPPER	NET WEIGHT

I CERTIFY THE ABOVE ENTRIES ARE TRUE AND CORRECT.

DATE 10-4-96 B/L No.

(Driver's Signature)

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.

Manifest Document No. 001,407

2. Page 1 of 1

540-113

Generator's Name and Mailing Address

Holloman Air Force Base
Holloman AFB, NM

4. Generator's Phone ( )

5. Transporter 1 Company Name: Rhino Environmental Services

6. US EPA ID Number: N/A

7. Transporter 2 Company Name

8. US EPA ID Number

9. Designated Facility Name and Site Address

Rhino Environmental Services DP-1051
1 Mile NW of Newton, NM
Section 22.7, T26S, R6E, Otero County

10. US EPA ID Number

A. Transporter's Phone

B. Transporter's Phone 505-392-4408

C. Facility's Phone 505-397-4808

11. Waste Shipping Name and Description	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
a. Hydrocarbon Contaminated Soils	1	Dump		
b.				
c.				
d.				

D. Additional Descriptions for Materials Listed Above

Non-Hazardous Materials

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name: WARREN NEFF — Signature: Warren Neff — Month / Day / Year

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: George Gains — Signature: George Gains — Month 10 Day 04 Year 96

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name — Signature — Month / Day / Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name: George Gains — Signature: George Gains — Month 10 Day 04 Year 96

GENERATOR

TRANSPORTER

FACILITY

12-BLS-C5 Rev. 4/94

GENERATOR'S COPY

№ 12483 STATE CERTIFICATE OF WEIGHTS AND MEASURES

DRIVER'S WEIGHT CERTIFICATE

NAME OF CARRIER (BEKINS MOVING & STGE.) (BEKINS VAN LINES)

OTHER CARRIER Rhino

Vehicle Identification 540-113

Name of Shipper

Origin of Shipment Destination of Shipment

74400
32380
42,020

lbs. Gross — Gross weight of loaded vehicle, with driver only, thereon.

lbs. Tare — Tare weight of vehicle, with driver only, thereon, including full gasoline tank and all necessary pads, chains, dollies, hand trucks, and other equipment.

lbs. Net — Net weight of the shipment.

THIS FORM PRESCRIBED BY INTERSTATE COMMERCE COMMISSION
EX PARTE - MC - 19
AS AMENDED EFFECTIVE JUNE 1, 1970

Signed M. Parnaude
Weighmaster

The gross and tare weights were obtained at scales

NMDA APPROVED

GROSS	NAME OF SCALE OWNER	(BEKINS M & S) /	(BEKINS MOVING & STGE.)
	LOCATION	2315 S. Valley Dr. Las Cruces, N. M. /	US 70 W Alamogordo, N. M.
TARE	NAME OF SCALE OWNER	(BEKINS M & S) /	(BEKINS MOVING & STGE.)
	LOCATION	2315 S. Valley Dr. Las Cruces, N. M. /	US 70 W Alamogordo, N. M.

As shown by attached weight ticket(s) prepared by the weighmaster.

(Attach only gross weight ticket if tare weight is obtained from a weight ticket on shipments listed below.)

DRIVER ON ☐ OFF ☒

Chg 5-00

(LIST OF SHIPMENTS, IF ANY, ON VEHICLE AT TIME ABOVE WEIGHTS WERE OBTAINED)

SHIPPER	NET WEIGHT

I CERTIFY THE ABOVE ENTRIES ARE TRUE AND CORRECT.

DATE 10-4-96 B/L No. George Daino (Driver's Signature)

Please print or type.
(Form designed for use on elite (12-pitch) typewriter.)

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.

Manifest Document No.

2. Page 1 of 1 — 530-112

3. Generator's Name and Mailing Address

Holloman Air Force Base
Holloman AFB, NM

49 CES/CEV

SWMU 279

4. Generator's Phone (505) 475-5375

5. Transporter 1 Company Name: Rhino Environmental Services

6. US EPA ID Number: N/A

7. Transporter 2 Company Name

8. US EPA ID Number

9. Designated Facility Name and Site Address

Rhino Environmental Services
1 Mile NW of Newman, NM
Section 22-4, T20N, R6E, Otero County

10. US EPA ID Number: UP-1051

A. Transporter's Phone

B. Transporter's Phone 505-392-6498

C. Facility's Phone 505-392-4898

11. Waste Shipping Name and Description	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
a. Hydrocarbon Contaminated Soils	1	Bulk	3500	lb
b.				
c.				
d.				

D. Additional Descriptions for Materials Listed Above

Non-hazardous Materials

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name: WARREN NEFF — Signature: Warren Neff — Month 10 Day 3 Year 96

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: Dulces Al Gutierrez — Signature: [illegible] — Month 10 Day 3 Year 96

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name — Signature — Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name: George Grimes — Signature: George Grimes — Month 10 Day 3 Year 96

GENERATOR — TRANSPORTER — FACILITY

12-BLS-C5 Rev. 4/94

GENERATOR'S COPY

№ 12481 STATE CERTIFICATE OF WEIGHTS AND MEASURES

DRIVER'S WEIGHT CERTIFICATE

NAME OF CARRIER (BEKINS MOVING & STGE.) (BEKINS VAN LINES)

OTHER CARRIER RHINO

Vehicle Identification 530/112

Name of Shipper

Origin of Shipment Destination of Shipment

74210
38600
35610

lbs. Gross — Gross weight of loaded vehicle, with driver only, thereon.

lbs. Tare — Tare weight of vehicle, with driver only, thereon, including full gasoline tank and all necessary pads, chains, dollies, hand trucks, and other equipment.

lbs. Net — Net weight of the shipment.

Signed Weighmaster

THIS FORM PRESCRIBED BY INTERSTATE COMMERCE COMMISSION
EX PARTE - MC - 19
AS AMENDED EFFECTIVE JUNE 1, 1970

The gross and tare weights were obtained at scales

NMDA APPROVED

GROSS	NAME OF SCALE OWNER	(BEKINS M & S) /	(BEKINS MOVING & STGE
	LOCATION	2315 S. Valley Dr. Las Cruces, N. M. /	US 70 W Alamogordo, N. M.
TARE	NAME OF SCALE OWNER	(BEKINS M & S) /	(BEKINS MOVING & STGE.)
	LOCATION	2315 S. Valley Dr. Las Cruces, N. M. /	US 70 W Alamogordo, N. M.

As shown by attached weight ticket(s) prepared by the weighmaster.

(Attach only gross weight ticket if tare weight is obtained from a weight ticket on shipments listed below.)

DRIVER ON ☐ OFF ☒

By 5.00

(LIST OF SHIPMENTS, IF ANY, ON VEHICLE AT TIME ABOVE WEIGHTS WERE OBTAINED)

SHIPPER	NET WEIGHT

I CERTIFY THE ABOVE ENTRIES ARE TRUE AND CORRECT.

DATE 10-03-96 B/L No. (Driver's Signature)

Please print or type
(Form designed for use on elite (12-pitch) typewriter.)

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.

Manifest Document No. R01405

2. Page 1 of 1 526-112

Generator's Name and Mailing Address
Holloman Air Force Base
Holloman AFB, NM

4. Generator's Phone (505) 475-5375

5. Transporter 1 Company Name: Rhino Environmental Services

6. US EPA ID Number: N/A

7. Transporter 2 Company Name

8. US EPA ID Number

9. Designated Facility Name and Site Address
Rhino Environmental Services DP-1051
1 Mile NW of Newman, NM
Section 22.3. T26S. R6E. Otero County

10. US EPA ID Number

A. Transporter's Phone

B. Transporter's Phone 505-392-4496

C. Facility's Phone 505-392-4896

11. Waste Shipping Name and Description	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
a. Hydrocarbon Contaminated Soils	1	Bul	35 ~~89~~	80
b.				
c.				
d.				

Additional Descriptions for Materials Listed Above
Non-Hazardous Materials

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information
CFAL L

GENERATOR

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name: WARREN NEFF
Signature: Warren Neff
Month / Day / Year

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: Duke N Gutierrez
Signature
Month / Day / Year 1 / 2 / 96

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name
Signature
Month / Day / Year

FACILITY

19. Discrepancy Indication Space

Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name: George Davis
Signature: George Davis
Month / Day / Year 1 / 2 / 96

12-BLS-C5 Rev. 4/94

GENERATOR'S COPY

№ 12477 STATE CERTIFICATE OF WEIGHTS AND MEASURES

DRIVER'S WEIGHT CERTIFICATE

NAME OF CARRIER (BEKINS MOVING & STGE.) (BEKINS VAN LINES)

OTHER CARRIER RHINO

Vehicle Identification

Name of Shipper

Origin of Shipment Destination of Shipment

74090
38600
35490

lbs. Gross — Gross weight of loaded vehicle, with driver only, thereon.

lbs. Tare — Tare weight of vehicle, with driver only, thereon, including full gasoline tank and all necessary pads, chains, dollies, hand trucks, and other equipment.

lbs. Net — Net weight of the shipment.

Signed Weighmaster

THIS FORM PRESCRIBED BY INTERSTATE COMMERCE COMMISSION
EX PARTE - MC - 19
AS AMENDED EFFECTIVE JUNE 1, 1970

The gross and tare weights were obtained at scales

NMDA APPROVED

GROSS	NAME OF SCALE OWNER	(BEKINS M & S) /	(BEKINS MOVING & STGE.)
	LOCATION	2315 S. Valley Dr. Las Cruces, N. M. /	US 70 W Alamogordo, N. M.
TARE	NAME OF SCALE OWNER	(BEKINS M & S) /	(BEKINS MOVING & STGE.)
	LOCATION	2315 S. Valley Dr. Las Cruces, N. M. /	US 70 W Alamogordo, N. M.

As shown by attached weight ticket(s) prepared by the weighmaster.

(Attach only gross weight ticket if tare weight is obtained from a weight ticket on shipments listed below.)

DRIVER ON ☐ OFF ☒

(LIST OF SHIPMENTS, IF ANY, ON VEHICLE AT TIME ABOVE WEIGHTS WERE OBTAINED)

SHIPPER	NET WEIGHT

I CERTIFY THE ABOVE ENTRIES ARE TRUE AND CORRECT.

DATE 10-03-96 B/L No. (Driver's Signature)

Please print or type
(Form designed for use on elite (12-pitch) typewriter.)

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.

Manifest Document No. 801404

2. Page 1 of 1

Generator's Name and Mailing Address

Holloman Air Force Base
Holloman AFB, NM

49CES/CEV

4. Generator's Phone (505) 475 - 5395

5. Transporter 1 Company Name: Rhino Environmental Services

6. US EPA ID Number: N/A

7. Transporter 2 Company Name

8. US EPA ID Number

9. Designated Facility Name and Site Address: Rhino Environmental Services DP-1051
1 Mile NW of Newman, NM
Section 22.3, T26S, R6E, Otero County

10. US EPA ID Number

A. Transporter's Phone

B. Transporter's Phone 505-392-4198

C. Facility's Phone 505-392-4198

11. Waste Shipping Name and Description	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
a. Hydrocarbon Contaminated Soils	1	Drum		
b.				
c.				
d.				

Additional Descriptions for Materials Listed Above

Non-Hazardous Materials

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

GENERATOR

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name: WARREN NEFF | Signature: Warren Neff | Month | Day | Year

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name | Signature | Month | Day | Year

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name | Signature | Month | Day | Year

FACILITY

19. Discrepancy Indication Space

Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name: George Goins | Signature: George Goins | Month | Day | Year

12-BLS-05 Rev. 4/94

GENERATOR'S COPY

№ 12476 STATE CERTIFICATE OF WEIGHTS AND MEASURES

DRIVER'S WEIGHT CERTIFICATE

NAME OF CARRIER (BEKINS MOVING & STGE.) (BEKINS VAN LINES)

OTHER CARRIER RHINO

Vehicle Identification 540 / 113

Name of Shipper

Origin of Shipment Destination of Shipment

76270
32 390
43890

lbs. Gross — Gross weight of loaded vehicle, with driver only, thereon.

lbs. Tare — Tare weight of vehicle, with driver only, thereon, including full gasoline tank and all necessary pads, chains, dollies, hand trucks, and other equipment.

lbs. Net — Net weight of the shipment.

THIS FORM PRESCRIBED BY INTERSTATE COMMERCE COMMISSION
EX PARTE - MC - 19
AS AMENDED EFFECTIVE JUNE 1, 1970

Signed Juan [illegible] Weighmaster

The gross and tare weights were obtained at scales

NMDA APPROVED

GROSS	NAME OF SCALE OWNER	(BEKINS M & S) /	(BEKINS MOVING & STGE.)
	LOCATION	2315 S. Valley Dr. Las Cruces, N. M. /	US 70 W Alamogordo, N. M.
TARE	NAME OF SCALE OWNER	(BEKINS M & S) /	(BEKINS MOVING & STGE.)
	LOCATION	2315 S. Valley Dr. Las Cruces, N. M. /	US 70 W Alamogordo, N. M.

As shown by attached weight ticket(s) prepared by the weighmaster.

(Attach only gross weight ticket if tare weight is obtained from a weight ticket on shipments listed below.)

DRIVER ON ☐ OFF ☒

(LIST OF SHIPMENTS, IF ANY, ON VEHICLE AT TIME ABOVE WEIGHTS WERE OBTAINED)

SHIPPER	NET WEIGHT

I CERTIFY THE ABOVE ENTRIES ARE TRUE AND CORRECT.

DATE 10-03-76 No. Jorge Gaina (Signature)

Please print or type.
(Form designed for use on elite (12-pitch) typewriter.)

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.

Manifest Document No.

2. Page 1 of 1

530-112

SWMU 3#9

Generator's Name and Mailing Address

Holloman Air Force Base
Holloman AFB, NM

4. Generator's Phone (505) 475-5915

5. Transporter 1 Company Name: Rhino Environmental Services

6. US EPA ID Number: N/A

7. Transporter 2 Company Name

8. US EPA ID Number

9. Designated Facility Name and Site Address: Rhino Environmental Services D2-1051
1 Mile NW of Newman, NM
Section 22.3 [illegible], RCS, [illegible]

10. US EPA ID Number

A. Transporter's Phone

B. Transporter's Phone 505-392-4498

C. Facility's Phone 505-392-4498

11. Waste Shipping Name and Description	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
a. Hydrocarbon Contaminated Soils	1	Bulk	44200	
b.				
c.				
d.				

GENERATOR

D. Additional Descriptions for Materials Listed Above

Non-Hazardous Materials

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

Cell L

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name	Signature	Month	Day	Year
WARREN NEFF	Warren Neff	10	02	96

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
[illegible]	[illegible]	10	2	96

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year

FAC

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name	Signature	Month	Day	Year
George Grim	George Grim	10	2	96

12-BLS-C51 Rev. 4/94

GENERATOR'S COPY

№ 12471 STATE CERTIFICATE OF WEIGHTS AND MEASURES

DRIVER'S WEIGHT CERTIFICATE

NAME OF CARRIER (BEKINS MOVING & STGE.) (BEKINS VAN LINES)

OTHER CARRIER RHINO

Vehicle Identification 530 / 112

Name of Shipper

Origin of Shipment Destination of Shipment

82800 lbs. Gross — Gross weight of loaded vehicle, with driver only, thereon.

38600 lbs. Tare — Tare weight of vehicle, with driver only, thereon, including full gasoline tank and all necessary pads, chains, dollies, hand trucks, and other equipment.

44,200 lbs. Net — Net weight of the shipment.

THIS FORM PRESCRIBED BY INTERSTATE COMMERCE COMMISSION
EX PARTE - MC - 19
AS AMENDED EFFECTIVE JUNE 1, 1970

Signed Weighmaster

The gross and tare weights were obtained at scales

NMDA APPROVED

GROSS	NAME OF SCALE OWNER	(BEKINS M & S) /	(BEKINS MOVING & STGE
	LOCATION	2315 S. Valley Dr. Las Cruces, N. M. /	US 70 W Alamogordo, N. M.
TARE	NAME OF SCALE OWNER	(BEKINS M & S) /	(BEKINS MOVING & STGE.)
	LOCATION	2315 S. Valley Dr. Las Cruces, N. M. /	US 70 W Alamogordo, N. M.

As shown by attached weight ticket(s) prepared by the weighmaster.

(Attach only gross weight ticket if tare weight is obtained from a weight ticket on shipments listed below.)

DRIVER ON ☐ OFF ☒

(LIST OF SHIPMENTS, IF ANY, ON VEHICLE AT TIME ABOVE WEIGHTS WERE OBTAINED)

SHIPPER	NET WEIGHT

I CERTIFY THE ABOVE ENTRIES ARE TRUE AND CORRECT.

DATE 10-07-76 Vol. No. (Driver's Signature)

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.

Manifest Document No. [illegible]

2. Page 1 of [illegible]

Generator's Name and Mailing Address

Holloman Air Force Base
Holloman AFB, NM

4. Generator's Phone ( )

5. Transporter 1 Company Name: Rhino Environmental Services

6. US EPA ID Number: N/A

7. Transporter 2 Company Name

8. US EPA ID Number

9. Designated Facility Name and Site Address: Rhino Environmental Services DP-1051
1 Mile NW of Newman, NM
Section 22.3, T26S, R6E, Otero County

10. US EPA ID Number

A. Transporter's Phone

B. Transporter's Phone 505-392-4[illegible]

C. Facility's Phone 505-392-[illegible]

11. Waste Shipping Name and Description	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
a. Hydrocarbon Contaminated Soils	1	[illegible]	45220	
b.				
c.				
d.				

D. Additional Descriptions for Materials Listed Above

Non-Hazardous Materials

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name: WARREN NEFF — Signature: [signature] — Month / Day / Year

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name — Signature — Month / Day / Year

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name — Signature — Month / Day / Year

19. Discrepancy Indication Space

D. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name: George Gains — Signature: [signature] — Month / Day / Year

GENERATOR — TRANSPORTER — FACILITY

12-BLS-C5 Rev. 4/94

GENERATOR'S COPY

№ 12470 STATE CERTIFICATE OF WEIGHTS AND MEASURES

DRIVER'S WEIGHT CERTIFICATE

NAME OF CARRIER (BEKINS MOVING & STGE.) (BEKINS VAN LINES)

OTHER CARRIER Chino

Vehicle Identification 540-113

Name of Shipper

Origin of Shipment Destination of Shipment

75650
32380
43,270

lbs. Gross — Gross weight of loaded vehicle, with driver only, thereon.

lbs. Tare — Tare weight of vehicle, with driver only, thereon, including full gasoline tank and all necessary pads, chains, dollies, hand trucks, and other equipment.

lbs. Net — Net weight of the shipment.

THIS FORM PRESCRIBED BY INTERSTATE COMMERCE COMMISSION
EX PARTE - MC - 19
AS AMENDED EFFECTIVE JUNE 1, 1970

Signed M. Patrieaude
Weighmaster

The gross and tare weights were obtained at scales

NMDA APPROVED

GROSS	NAME OF SCALE OWNER	(BEKINS M & S) /	(BEKINS MOVING & STGE)
	LOCATION	2315 S. Valley Dr. Las Cruces, N. M. /	US 70 W Alamogordo, N. M.
TARE	NAME OF SCALE OWNER	(BEKINS M & S) /	(BEKINS MOVING & STGE.)
	LOCATION	2315 S. Valley Dr. Las Cruces, N. M. /	US 70 W Alamogordo, N. M.

As shown by attached weight ticket(s) prepared by the weighmaster.

(Attach only gross weight ticket if tare weight is obtained from a weight ticket on shipments listed below.)

DRIVER ON ☐ OFF ☒

Mg 500

(LIST OF SHIPMENTS, IF ANY, ON VEHICLE AT TIME ABOVE WEIGHTS WERE OBTAINED)

SHIPPER	NET WEIGHT

I CERTIFY THE ABOVE ENTRIES ARE TRUE AND CORRECT.

DATE 10-2-96 B/L No.

George Chino (Driver's Signature)

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.

Manifest Document No. 801401

2. Page 1 of 1 — 530-112

Generator's Name and Mailing Address

Holloman Air Force Base 49 CES/CEV
Holloman AFB, NM

SWMU 3
SP #8

4. Generator's Phone (505) 475-5395

5. Transporter 1 Company Name: Rhino Environmental Services

6. US EPA ID Number: N/A

7. Transporter 2 Company Name

8. US EPA ID Number

9. Designated Facility Name and Site Address: Rhino Environmental Services DP-1051
1 Mile NW of Maxwell, NM
Section 22.3, T25S, R6E, Otero County

10. US EPA ID Number

A. Transporter's Phone

B. Transporter's Phone 505-392-4498

C. Facility's Phone 505-392-4498

11. Waste Shipping Name and Description	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
a. Hydrocarbon Contaminated Soils	1	Bulk	[illegible]	
b.				
c.				
d.				

GENERATOR

J. Additional Descriptions for Materials Listed Above

Non-Hazardous Materials

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

CELL 2

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name	Signature	Month	Day	Year
WARREN NEFF	Warren Neff	10	02	96

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
Dulce M Gutierrez	Dulce M Gutierrez	10	2	96

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year

FACILITY

19. Discrepancy Indication Space

. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name	Signature	Month	Day	Year
George Gains	George Gains	10	02	96

12-89-05 Rev. 4/94

GENERATOR'S COPY

№ 12466 STATE CERTIFICATE OF WEIGHTS AND MEASURES

DRIVER'S WEIGHT CERTIFICATE

NAME OF CARRIER (BEKINS MOVING & STGE.) (BEKINS VAN LINES)

OTHER CARRIER RHINO

Vehicle Identification 530 / 112

Name of Shipper

Origin of Shipment Destination of Shipment

78900 lbs. Gross — Gross weight of loaded vehicle, with driver only, thereon.

38600 lbs. Tare — Tare weight of vehicle, with driver only, thereon, including full gasoline tank and all necessary pads, chains, dollies, hand trucks, and other equipment.

40,300 lbs. Net — Net weight of the shipment.

THIS FORM PRESCRIBED BY INTERSTATE COMMERCE COMMISSION
EX PARTE - MC - 19
AS AMENDED EFFECTIVE JUNE 1, 1970

Signed Weighmaster

The gross and tare weights were obtained at scales

NMDA APPROVED

GROSS	NAME OF SCALE OWNER	(BEKINS M & S)	(BEKINS MOVING & STGE.)
	LOCATION	2315 S. Valley Dr. Las Cruces, N. M.	US 70 W Alamogordo, N. M.
TARE	NAME OF SCALE OWNER	(BEKINS M & S)	(BEKINS MOVING & STGE.)
	LOCATION	2315 S. Valley Dr. Las Cruces, N. M.	US 70 W Alamogordo, N. M.

As shown by attached weight ticket(s) prepared by the weighmaster.

(Attach only gross weight ticket if tare weight is obtained from a weight ticket on shipments listed below.)

DRIVER: ON ☐ OFF ☑

(LIST OF SHIPMENTS, IF ANY, ON VEHICLE AT TIME ABOVE WEIGHTS WERE OBTAINED)

SHIPPER	NET WEIGHT

I CERTIFY THE ABOVE ENTRIES ARE TRUE AND CORRECT.

DATE 10-02-96 Bol No. (Driver's Signature)

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.

Manifest Document No. R01400

2. Page 1 of 1 — 540-113

Generator's Name and Mailing Address

Holloman Air Force Base 49CES/CEV
Holloman AFB, NM

SWMU 3
SP #8

4. Generator's Phone (505) 475-5395

5. Transporter 1 Company Name: Rhino Environmental Services

6. US EPA ID Number: N/A

7. Transporter 2 Company Name

8. US EPA ID Number

9. Designated Facility Name and Site Address: Rhino Environmental Services DP-1051
1 Mile NW of Nesmen, NM
Section 22,3, T26S, R6E, Otero County

10. US EPA ID Number

A. Transporter's Phone

B. Transporter's Phone 505-392-4498

C. Facility's Phone 505-392-4498

11. Waste Shipping Name and Description	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
a. Hydrocarbon Contaminated Soils	3	Bulk		
b.				
c.				
d.				

J. Additional Descriptions for Materials Listed Above

Non-Hazardous Materials

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name: WARREN NEFF — Signature: Warren Neff — Month 10 Day 02 Year 96

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: [illegible] — Signature: [illegible] — Month [illegible] Day [illegible] Year [illegible]

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name — Signature — Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name: George Goins — Signature: George Goins — Month 10 Day 02 Year 96

GENERATOR — TRANSPORTER — FAC

12-BES-C5 Rev. 4/94

GENERATOR'S COPY

№ 12465 STATE CERTIFICATE OF WEIGHTS AND MEASURES

DRIVER'S WEIGHT CERTIFICATE

NAME OF CARRIER (BEKINS MOVING & STGE.) (BEKINS VAN LINES)

OTHER CARRIER Rihno

Vehicle Identification 540 / 113

Name of Shipper

Origin of Shipment

Destination of Shipment

74580
32380
42,200

lbs. Gross — Gross weight of loaded vehicle, with driver only, thereon.

lbs. Tare — Tare weight of vehicle, with driver only, thereon, including full gasoline tank and all necessary pads, chains, dollies, hand trucks, and other equipment.

lbs. Net — Net weight of the shipment.

THIS FORM PRESCRIBED BY INTERSTATE COMMERCE COMMISSION
EX PARTE - MC - 19
AS AMENDED EFFECTIVE JUNE 1, 1970

Signed Juan X
Weighmaster

The gross and tare weights were obtained at scales

NMDA APPROVED

GROSS	NAME OF SCALE OWNER	(BEKINS M & S) /	(BEKINS MOVING & STGE.)
	LOCATION	2315 S. Valley Dr. Las Cruces, N. M. /	US 70 W Alamogordo, N. M.
TARE	NAME OF SCALE OWNER	(BEKINS M & S) /	(BEKINS MOVING & STGE.)
	LOCATION	2315 S. Valley Dr. Las Cruces, N. M. /	US 70 W Alamogordo, N. M.

As shown by attached weight ticket(s) prepared by the weighmaster.

(Attach only gross weight ticket if tare weight is obtained from a weight ticket on shipments listed below.)

DRIVER ON ☐ OFF ☒

(LIST OF SHIPMENTS, IF ANY, ON VEHICLE AT TIME ABOVE WEIGHTS WERE OBTAINED)

SHIPPER	NET WEIGHT

I CERTIFY THE ABOVE ENTRIES ARE TRUE AND CORRECT.

DATE 10-02-76 No. George Gin (Driver's Signature)

Please print or type
(Form designed for use on elite (12-pitch) typewriter.)

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.

Manifest Document No. R01399

2. Page 1 of 1

530-112

3. Generator's Name and Mailing Address

Holloman Air Force Base
Holloman AFB, NM
49 CES/CEV

SWMU 3
SP #7

4. Generator's Phone (505) 475-5395

5. Transporter 1 Company Name

Rhino Environmental Services

6. US EPA ID Number

N/A

7. Transporter 2 Company Name

8. US EPA ID Number

9. Designated Facility Name and Site Address

Rhino Environmental Services DP-1051
1 Mile NW of Newman, NM
Section 22.3, T26S, R6E, Otero County

10. US EPA ID Number

A. Transporter's Phone

B. Transporter's Phone 505-392-4498

C. Facility's Phone 505-392-4898

11. Waste Shipping Name and Description	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
a. Hydrocarbon Contaminated Soils	1	Bulk	34,590	lbs
b.				
c.				
d.				

D. Additional Descriptions for Materials Listed Above

Non-Hazardous Materials

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

CELL L

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name: WARREN NEAF | Signature: Warren Neaf | Month 10 Day 01 Year 96

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: Dulces N. Gutierrez | Signature: Dulces N. Gutierrez | Month 10 Day 1 Year 96

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name | Signature | Month | Day | Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name: George Goins | Signature: George Goins | Month 10 Day 01 Year 96

GENERATOR → TRANSPORTER → FACILITY

12-BLS-C5 Rev. 4/94

ORIGINAL – RETURN TO GENERATOR

No. 12461 STATE CERTIFICATE OF WEIGHTS AND MEASURES

DRIVER'S WEIGHT CERTIFICATE

NAME OF CARRIER (BEKINS MOVING & STGE.) (BEKINS VAN LINES)

OTHER CARRIER Rhino

Vehicle Identification 530-112

Name of Shipper

Origin of Shipment Destination of Shipment

73190 lbs. Gross — Gross weight of loaded vehicle, with driver only, thereon.

38600 lbs. Tare — Tare weight of vehicle, with driver only, thereon, including full gasoline tank and all necessary pads, chains, dollies, hand trucks, and other equipment.

34590 lbs. Net — Net weight of the shipment.

THIS FORM PRESCRIBED BY INTERSTATE COMMERCE COMMISSION
EX PARTE - MC - 19
AS AMENDED EFFECTIVE JUNE 1, 1970

Signed M. Patrescuder
Weighmaster

The gross and tare weights were obtained at scales

NMDA APPROVED

GROSS	NAME OF SCALE OWNER	(BEKINS M & S)	(BEKINS MOVING & STGE.)
	LOCATION	2315 S. Valley Dr. Las Cruces, N. M.	US 70 W Alamogordo, N. M.
TARE	NAME OF SCALE OWNER	(BEKINS M & S)	(BEKINS MOVING & STGE.)
	LOCATION	2315 S. Valley Dr. Las Cruces, N. M.	US 70 W Alamogordo, N. M.

As shown by attached weight ticket(s) prepared by the weighmaster.

(Attach only gross weight ticket if tare weight is obtained from a weight ticket on shipments listed below.)

DRIVER ON ☐ OFF ☒

Chg 500

(LIST OF SHIPMENTS, IF ANY, ON VEHICLE AT TIME ABOVE WEIGHTS WERE OBTAINED)

SHIPPER	NET WEIGHT

I CERTIFY THE ABOVE ENTRIES ARE TRUE AND CORRECT.

DATE 10-1-96 B/L No.

Dalen Stebing (Driver)

Please print or type
(Form designed for use on elite (12-pitch) typewriter.)

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.

Manifest Document No. R01398

2. Page 1 of 1 — 540-113

3. Generator's Name and Mailing Address

Holloman Air Force Base
Holloman AFB, NM
49CES/CEV

SWMU 3
SP #7

4. Generator's Phone (505) 475-5395

5. Transporter 1 Company Name: Rhino Environmental Services

6. US EPA ID Number: N/A

7. Transporter 2 Company Name

8. US EPA ID Number

9. Designated Facility Name and Site Address

Rhino Environmental Services DP-1051
1 Mile NW of Newman, NM
Section 22.3, T26S, R6E, Otero County

10. US EPA ID Number

A. Transporter's Phone

B. Transporter's Phone 505-392-4498

C. Facility's Phone 505-392-4898

11. Waste Shipping Name and Description	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
a. Hydrocarbon Contaminated Soils	1	Bulk	47,590	lbs
b.				
c.				
d.				

D. Additional Descriptions for Materials Listed Above

Non-Hazardous Materials

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name: WARREN NEFF — Signature: Warren Neff — Month/Day/Year: 10/10/96

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: George Goins — Signature: George Goins — Month/Day/Year: 10/10/96

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name — Signature — Month/Day/Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name: George Goins — Signature: George Goins — Month/Day/Year: 10/10/96

GENERATOR → TRANSPORTER → FACILITY

12-BLS-C5 Rev. 4/94

ORIGINAL – RETURN TO GENERATOR

№ 12460 STATE CERTIFICATE OF WEIGHTS AND MEASURES

DRIVER'S WEIGHT CERTIFICATE

NAME OF CARRIER (BEKINS MOVING & STGE.) (BEKINS VAN LINES)

OTHER CARRIER Phoenix

Vehicle Identification 540-113

Name of Shipper

Origin of Shipment Destination of Shipment

79970
32380
47590

lbs. Gross — Gross weight of loaded vehicle, with driver only, thereon.

lbs. Tare — Tare weight of vehicle, with driver only, thereon, including full gasoline tank and all necessary pads, chains, dollies, hand trucks, and other equipment.

lbs. Net — Net weight of the shipment.

THIS FORM PRESCRIBED BY INTERSTATE COMMERCE COMMISSION
EX PARTE - MC - 19
AS AMENDED EFFECTIVE JUNE 1, 1970

Signed M. Patmonde
Weighmaster

The gross and tare weights were obtained at scales

NMDA APPROVED

GROSS	NAME OF SCALE OWNER	(BEKINS M & S) /	(BEKINS MOVING & STGE.)
	LOCATION	2315 S. Valley Dr. Las Cruces, N. M. /	US 70 W Alamogordo, N. M.
TARE	NAME OF SCALE OWNER	(BEKINS M & S) /	(BEKINS MOVING & STGE.)
	LOCATION	2315 S. Valley Dr. Las Cruces, N. M. /	US 70 W Alamogordo, N. M.

As shown by attached weight ticket(s) prepared by the weighmaster.

(Attach only gross weight ticket if tare weight is obtained from a weight ticket on shipments listed below.)

DRIVER ON ☐ OFF ☒

Chg 500

(LIST OF SHIPMENTS, IF ANY, ON VEHICLE AT TIME ABOVE WEIGHTS WERE OBTAINED)

SHIPPER	NET WEIGHT

I CERTIFY THE ABOVE ENTRIES ARE TRUE AND CORRECT.

DATE 10-1-96 B/L No. Jesse Lara (Driver's Signature)

Please print or type
(Form designed for use on elite (12-pitch) typewriter.)

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.

Manifest Document No. R01397

2. Page 1 of 1 530-112

3. Generator's Name and Mailing Address

Holloman Air Force Base
Holloman AFB, NM
49 CES/CEV

SWMU 3
SP #6

4. Generator's Phone (505) 475-5395

5. Transporter 1 Company Name: ~~Rhino Environmental Services~~

6. US EPA ID Number: N/A

7. Transporter 2 Company Name

8. US EPA ID Number

9. Designated Facility Name and Site Address

Rhino Environmental Services DP-1051
1 Mile NW of Newman, NM
~~Section 22.3, T26S, R6E, Otero County~~

10. US EPA ID Number

A. Transporter's Phone

B. Transporter's Phone 505-392-4498

C. Facility's Phone 505-392-4898

11. Waste Shipping Name and Description	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
a. Hydrocarbon Contaminated Soils	1	Bulk	39,480	lbs
b.				
c.				
d.				

GENERATOR

D. Additional Descriptions for Materials Listed Above

Non-Hazardous Materials

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

CELL #L

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name	Signature	Month	Day	Year
WARREN NEFF	Warren Neff	10	01	96

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
Dulces M. Gutierrez	Dulces M. Gutierrez	10	1	96

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name	Signature	Month	Day	Year
George Goins	George Goins	10	01	96

12-BLS-C5 Rev. 4/94

ORIGINAL – RETURN TO GENERATOR

№ 12454 STATE CERTIFICATE OF WEIGHTS AND MEASURES

DRIVER'S WEIGHT CERTIFICATE

NAME OF CARRIER (BEKINS MOVING & STGE.) (BEKINS VAN LINES)

OTHER CARRIER Rhein

Vehicle Identification 530-112

Name of Shipper

Origin of Shipment Destination of Shipment

78080
38600
39450

lbs. Gross — Gross weight of loaded vehicle, with driver only, thereon.

lbs. Tare — Tare weight of vehicle, with driver only, thereon, including full gasoline tank and all necessary pads, chains, dollies, hand trucks, and other equipment.

lbs. Net — Net weight of the shipment.

Signed M. Patrouille Weighmaster

THIS FORM PRESCRIBED BY INTERSTATE COMMERCE COMMISSION
EX PARTE - MC - 19
AS AMENDED EFFECTIVE JUNE 1, 1970

The gross and tare weights were obtained at scales

NMDA APPROVED

GROSS	NAME OF SCALE OWNER	(BEKINS M & S) /	(BEKINS MOVING & STGE
	LOCATION	2315 S. Valley Dr. Las Cruces, N. M. /	US 70 W Alamogordo, N. M.
TARE	NAME OF SCALE OWNER	(BEKINS M & S) /	(BEKINS MOVING & STGE.)
	LOCATION	2315 S. Valley Dr. Las Cruces, N. M. /	US 70 W Alamogordo, N. M.

As shown by attached weight ticket(s) prepared by the weighmaster.

(Attach only gross weight ticket if tare weight is obtained from a weight ticket on shipments listed below.)

DRIVER ON ☐ OFF ☒

Chg 5.00

(LIST OF SHIPMENTS, IF ANY, ON VEHICLE AT TIME ABOVE WEIGHTS WERE OBTAINED)

SHIPPER	NET WEIGHT

I CERTIFY THE ABOVE ENTRIES ARE TRUE AND CORRECT.

DATE 12-1-96 B/L No. Dalan Stirling (Driver's Signature)

Please print or type
(Form designed for use on elite (12-pitch) typewriter.)

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.

Manifest Document No. R01396

2. Page 1 of 540-113

3. Generator's Name and Mailing Address

Holloman Air Force Base 49CES/CEV
Holloman AFB, NM

SWMU 3
SP #6

4. Generator's Phone (505) 475-5395

5. Transporter 1 Company Name: Rhino Environmental Services

6. US EPA ID Number: N/A

7. Transporter 2 Company Name

8. US EPA ID Number

9. Designated Facility Name and Site Address

Rhino Environmental Services DP-1051
1 Mile NW of Newman, NM
Section 22.3, T26S, R6E, Otero County

10. US EPA ID Number

A. Transporter's Phone

B. Transporter's Phone 505-392-4498

C. Facility's Phone 505-392-4898

11. Waste Shipping Name and Description	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
a. Hydrocarbon Contaminated Soils	1	Bulk	45,750	lbs
b.				
c.				
d.				

D. Additional Descriptions for Materials Listed Above

Non-Hazardous Materials

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name: WARREN NEFF | Signature: Warren Neff | Month 10 Day 01 Year 96

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: George Goins | Signature: George Goins | Month 10 Day 01 Year 96

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name | Signature | Month | Day | Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name: George Goins | Signature: George Goins | Month 10 Day 01 Year 96

GENERATOR → TRANSPORTER → FAC

12-BLS-C5 Rev. 4/94

ORIGINAL – RETURN TO GENERATOR

№ 12455 STATE CERTIFICATE OF WEIGHTS AND MEASURES

DRIVER'S WEIGHT CERTIFICATE

NAME OF CARRIER (BEKINS MOVING & STGE.) (BEKINS VAN LINES)

OTHER CARRIER Rhine

Vehicle Identification 540-113

Name of Shipper

Origin of Shipment Destination of Shipment

78130
32500
45750

lbs. Gross — Gross weight of loaded vehicle, with driver only, thereon.

lbs. Tare — Tare weight of vehicle, with driver only, thereon, including full gasoline tank and all necessary pads, chains, dollies, hand trucks, and other equipment.

lbs. Net — Net weight of the shipment.

THIS FORM PRESCRIBED BY INTERSTATE COMMERCE COMMISSION
EX PARTE - MC - 19
AS AMENDED EFFECTIVE JUNE 1, 1970

Signed M. Fitzgerald Weighmaster

The gross and tare weights were obtained at scales

NMDA APPROVED

GROSS	NAME OF SCALE OWNER	(BEKINS M & S) /	(BEKINS MOVING & STGE)
	LOCATION	2315 S. Valley Dr. Las Cruces, N. M. /	US 70 W Alamogordo, N. M.
TARE	NAME OF SCALE OWNER	(BEKINS M & S) /	(BEKINS MOVING & STGE.)
	LOCATION	2315 S. Valley Dr. Las Cruces, N. M. /	US 70 W Alamogordo, N. M.

As shown by attached weight ticket(s) prepared by the weighmaster.

(Attach only gross weight ticket if tare weight is obtained from a weight ticket on shipments listed below.)

DRIVER ON ☐ OFF ☒

C/19
500

(LIST OF SHIPMENTS, IF ANY, ON VEHICLE AT TIME ABOVE WEIGHTS WERE OBTAINED)

SHIPPER	NET WEIGHT

I CERTIFY THE ABOVE ENTRIES ARE TRUE AND CORRECT.

DATE 1-94 B/L No. Roger Brine (Driver's Signature)

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.

Manifest Document No. R01395

2. Page 1 of 1 540-113

3. Generator's Name and Mailing Address

Holloman Air Force Base
Holloman AFB, NM
49CES/CEV

SWMU 3
SP #5

4. Generator's Phone (505) 475-5395

5. Transporter 1 Company Name: Rhino Environmental Services

6. US EPA ID Number: N/A

7. Transporter 2 Company Name

8. US EPA ID Number

9. Designated Facility Name and Site Address

Rhino Environmental Services DP-1051
1 Mile NW of Newman, NM
Section 22.3, T26S, R6E, Otero County

10. US EPA ID Number

A. Transporter's Phone

B. Transporter's Phone 505-392-4498

C. Facility's Phone 505-392-4898

11. Waste Shipping Name and Description	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
a. Hydrocarbon Contaminated Soils	1	Bulk	41,250	lbs
b.				
c.				
d.				

D. Additional Descriptions for Materials Listed Above

Non-Hazardous Materials

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name: WARREN NEFF | Signature: Warren Neff | Month 10 Day 10 Year 96

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: George Goins | Signature: George Goins | Month 10 Day 10 Year 96

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name | Signature | Month | Day | Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name: George Goins | Signature: George Goins | Month 10 Day 10 Year 96

GENERATOR → TRANSPORTER → FACILITY

12-BLS-C5 Rev. 4/94

№ 12449 STATE CERTIFICATE OF WEIGHTS AND MEASURES

DRIVER'S WEIGHT CERTIFICATE

NAME OF CARRIER (BEKINS MOVING & STGE.) (BEKINS VAN LINES)

OTHER CARRIER RHINO

Vehicle Identification 540/113

Name of Shipper

Origin of Shipment Destination of Shipment

73630
32330
41,230

lbs. Gross — Gross weight of loaded vehicle, with driver only, thereon.

lbs. Tare — Tare weight of vehicle, with driver only, thereon, including full gasoline tank and all necessary pads, chains, dollies, hand trucks, and other equipment.

lbs. Net — Net weight of the shipment.

THIS FORM PRESCRIBED BY INTERSTATE COMMERCE COMMISSION
EX PARTE - MC - 19
AS AMENDED EFFECTIVE JUNE 1, 1970

Signed [signature] Weighmaster

The gross and tare weights were obtained at scales

NMDA APPROVED

GROSS	NAME OF SCALE OWNER	(BEKINS M & S) /	(BEKINS MOVING & STGE.)
	LOCATION	2315 S. Valley Dr. Las Cruces, N. M. /	US 70 W Alamogordo, N. M.
TARE	NAME OF SCALE OWNER	(BEKINS M & S) /	(BEKINS MOVING & STGE.)
	LOCATION	2315 S. Valley Dr. Las Cruces, N. M. /	US 70 W Alamogordo, N. M.

As shown by attached weight ticket(s) prepared by the weighmaster.

(Attach only gross weight ticket if tare weight is obtained from a weight ticket on shipments listed below.)

DRIVER ON ☐ OFF ☒

5.00

(LIST OF SHIPMENTS, IF ANY, ON VEHICLE AT TIME ABOVE WEIGHTS WERE OBTAINED)

SHIPPER	NET WEIGHT

I CERTIFY THE ABOVE ENTRIES ARE TRUE AND CORRECT.

DATE 10-01-76 Bill No. [signature] (Driver's Signature)

Please print or type
(Form designed for use on elite (12-pitch) typewriter.)

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.

Manifest Document No. R01394

2. Page 1 of 1 — 530-112

3. Generator's Name and Mailing Address

Holloman Air Force Base 49 CES/CEV
Holloman AFB, NM

SWMU-3
SP-#5

4. Generator's Phone (575) 572-5395

5. Transporter 1 Company Name — 6. US EPA ID Number

Rhino Environmental Services — N/A

7. Transporter 2 Company Name — 8. US EPA ID Number

9. Designated Facility Name and Site Address — 10. US EPA ID Number

Rhino Environmental Services DP-1051
1 Mile NW of Newman, NM
Section 22.3, T26S, R6E, Otero County

A. Transporter's Phone
B. Transporter's Phone 505-392-4498
C. Facility's Phone 505-392-4898

11. Waste Shipping Name and Description	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
a. Hydrocarbon Contaminated Soils	1	Bulk	42,470	lbs
b.				
c.				
d.				

D. Additional Descriptions for Materials Listed Above

Non-Hazardous Materials

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

CELL L

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name: WARREN NEFF — Signature: Warren Neff — Month/Day/Year: 10/10/96

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: Dukes N Gutierrez — Signature: Dukes N Gutierrez — Month/Day/Year: 10/01/96

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name — Signature — Month/Day/Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name: George Goins — Signature: George Goins — Month/Day/Year: 10/10/96

GENERATOR — TRANSPORTER — FACILITY

12-BLS-C5 Rev. 4/94

ORIGINAL – RETURN TO GENERATOR

№ 12450 STATE CERTIFICATE OF WEIGHTS AND MEASURES

DRIVER'S WEIGHT CERTIFICATE

NAME OF CARRIER (BEKINS MOVING & STGE.) (BEKINS VAN LINES)

OTHER CARRIER RMWD

Vehicle Identification 530/117

Name of Shipper

Origin of Shipment Destination of Shipment

81070 lbs. Gross — Gross weight of loaded vehicle, with driver only, thereon.

38600 lbs. Tare — Tare weight of vehicle, with driver only, thereon, including full gasoline tank and all necessary pads, chains, dollies, hand trucks, and other equipment.

42,470 lbs.- Net — Net weight of the shipment.

THIS FORM PRESCRIBED BY INTERSTATE COMMERCE COMMISSION
EX PARTE - MC - 19
AS AMENDED EFFECTIVE JUNE 1, 1970

Signed [signature] Weighmaster

The gross and tare weights were obtained at scales

NMDA APPROVED C

GROSS	NAME OF SCALE OWNER	(BEKINS M & S) /	(BEKINS MOVING & STGE.)
	LOCATION	2315 S. Valley Dr. Las Cruces, N. M. /	US 70 W Alamogordo, N. M.
TARE	NAME OF SCALE OWNER	(BEKINS M & S) /	(BEKINS MOVING & STGE.)
	LOCATION	2315 S. Valley Dr. Las Cruces, N. M. /	US 70 W Alamogordo, N. M.

As shown by attached weight ticket(s) prepared by the weighmaster.

(Attach only gross weight ticket if tare weight is obtained from a weight ticket on shipments listed below.)

DRIVER ON ☐ OFF ☑

(LIST OF SHIPMENTS, IF ANY, ON VEHICLE AT TIME ABOVE WEIGHTS WERE OBTAINED)

SHIPPER	NET WEIGHT

I CERTIFY THE ABOVE ENTRIES ARE TRUE AND CORRECT.

DATE 10-01-96 B/L No. [signature] (Driver's Signature)

NON-HAZARDOUS WASTE MANIFEST	1. Generator's US EPA ID No.	Manifest Document No. R01393	2. Page 1 of 1	53-112

3. Generator's Name and Mailing Address
Holloman Air Force Base 49 MDS/CE-1
Holloman AFB, NM
4. Generator's Phone ( ) 475

DUMJ-3
SP #1

5. Transporter 1 Company Name	6. US EPA ID Number
Rhino Environmental Services	N/A
7. Transporter 2 Company Name	8. US EPA ID Number

9. Designated Facility Name and Site Address	10. US EPA ID Number
Rhino Environmental Services DP-1051 1 Mile NW of Newman, NM Section 22.3, T26S, R6E, Otero County	

A. Transporter's Phone
B. Transporter's Phone 505-392-4498
C. Facility's Phone 505-392-4898

11. Waste Shipping Name and Description	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
a. Hydrocarbon Contaminated Soils	1	Bulk	42,970	LB
b.				
c.				
d.				

GENERATOR

Additional Descriptions for Materials Listed Above	E. Handling Codes for Wastes Listed Above
Non-Hazardous Materials	

15. Special Handling Instructions and Additional Information

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name	Signature	Month	Day	Year
WARREN NEFF	Warren Neff	9	30	93

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
Dulces Al Gutierrez	[illegible]	9	30	93

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year

FACILITY

19. Discrepancy Indication Space

Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name	Signature	Month	Day	Year
George Gains	George Gains			

GENERATOR'S COPY

№ 12448 STATE CERTIFICATE OF WEIGHTS AND MEASURES

DRIVER'S WEIGHT CERTIFICATE

NAME OF CARRIER (BEKINS MOVING & STGE.) (BEKINS VAN LINES)

OTHER CARRIER Rhino

Vehicle Identification 530-112

Name of Shipper

Origin of Shipment Destination of Shipment

81570 lbs. Gross — Gross weight of loaded vehicle, with driver only, thereon.

38600 lbs. Tare — Tare weight of vehicle, with driver only, thereon, including full gasoline tank and all necessary pads, chains, dollies, hand trucks, and other equipment.

42,970 lbs. Net — Net weight of the shipment.

THIS FORM PRESCRIBED BY INTERSTATE COMMERCE COMMISSION
EX PARTE - MC - 19
AS AMENDED EFFECTIVE JUNE 1, 1970

Signed M Portsmouth Weighmaster

The gross and tare weights were obtained at scales NMDA APPROVED

GROSS	NAME OF SCALE OWNER	(BEKINS M & S)	(BEKINS MOVING & STGE.)
	LOCATION	2315 S. Valley Dr. Las Cruces, N. M.	US 70 W Alamogordo, N. M.
TARE	NAME OF SCALE OWNER	(BEKINS M & S)	(BEKINS MOVING & STGE.)
	LOCATION	2315 S. Valley Dr. Las Cruces, N. M.	US 70 W Alamogordo, N. M.

As shown by attached weight ticket(s) prepared by the weighmaster.

(Attach only gross weight ticket if tare weight is obtained from a weight ticket on shipments listed below.)

DRIVER'S OWN SCALE ☐ ☒

Chg 5.00

(LIST OF SHIPMENTS, IF ANY, ON VEHICLE AT TIME ABOVE WEIGHTS WERE OBTAINED)

SHIPPER	NET WEIGHT

I CERTIFY THE ABOVE ENTRIES ARE TRUE AND CORRECT.

DATE 93096 B/L No. Dale Stetson (Driver's Signature)

NON-HAZARDOUS WASTE MANIFEST	1. Generator's US EPA ID No.	Manifest Document No. R01392	2. Page 1 of 1	540 113

3. Generator's Name and Mailing Address

Holloman Air Force Base
Holloman AFB, NM

47 CES/CEV

SWMU-3
No. 2

4. Generator's Phone ( )

5. Transporter 1 Company Name	6. US EPA ID Number
Rhino Environmental Services	N/A
7. Transporter 2 Company Name	8. US EPA ID Number

9. Designated Facility Name and Site Address	10. US EPA ID Number
Rhino Environmental Services DP-1051 1 Mile NW of Newman, NM Section 22.3, T26S, R6E, Otero County	

A. Transporter's Phone
B. Transporter's Phone 505-392-4498
C. Facility's Phone 505-392-4898

11. Waste Shipping Name and Description	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
a. Hydrocarbon Contaminated Soils	1	Bulk	46,510	lbs
b.				
c.				
d.				

GENERATOR

J. Additional Descriptions for Materials Listed Above

Non-Hazardous Materials

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name	Signature	Month	Day	Year
WARREN NEFF	Warren Neff	9	30	96

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
George Goins	George Goins	9	30	96

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year

FACI

19. Discrepancy Indication Space

0. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except es noted in Item 19.

Printed/Typed Name	Signature	Month	Day	Year
George Goins	George Goins	9	30	96

ORIGINAL – RETURN TO GENERATOR

№ 12447 STATE CERTIFICATE OF WEIGHTS AND MEASURES

DRIVER'S WEIGHT CERTIFICATE

NAME OF CARRIER (BEKINS MOVING & STGE.) (BEKINS VAN LINES)

OTHER CARRIER Rhino

Vehicle Identification 540-113

Name of Shipper

Origin of Shipment Destination of Shipment

78890
32380
46,510

lbs. Gross — Gross weight of loaded vehicle, with driver only, thereon.

lbs. Tare — Tare weight of vehicle, with driver only, thereon, including full gasoline tank and all necessary pads, chains, dollies, hand trucks, and other equipment.

lbs. Net — Net weight of the shipment.

THIS FORM PRESCRIBED BY INTERSTATE COMMERCE COMMISSION
EX PARTE - MC - 19
AS AMENDED EFFECTIVE JUNE 1, 1970

Signed M. Patenaude Weighmaster

The gross and tare weights were obtained at scales

NMDA APPROVED

GROSS	NAME OF SCALE OWNER	(BEKINS M & S) /	(BEKINS MOVING & STGE.)
	LOCATION	2315 S. Valley Dr. Las Cruces, N. M. /	US 70 W Alamogordo, N. M.
TARE	NAME OF SCALE OWNER	(BEKINS M & S) /	(BEKINS MOVING & STGE.)
	LOCATION	2315 S. Valley Dr. Las Cruces, N. M. /	US 70 W Alamogordo, N. M.

As shown by attached weight ticket(s) prepared by the weighmaster.

(Attach only gross weight ticket if tare weight is obtained from a weight ticket on shipments listed below.)

DRIVER ON ☐ OFF ☒

Chg 500

(LIST OF SHIPMENTS, IF ANY, ON VEHICLE AT TIME ABOVE WEIGHTS WERE OBTAINED)

SHIPPER	NET WEIGHT

I CERTIFY THE ABOVE ENTRIES ARE TRUE AND CORRECT.

DATE 9-30-96 B/L No. George Sims (Driver's Signature)

NON-HAZARDOUS WASTE MANIFEST	1. Generator's US EPA ID No.	Manifest Document No. [illegible]	2. Page 1 of	530-112

Generator's Name and Mailing Address

Holloman Air Force Base 49CES/CEV
Holloman AFB, NM

SWMU 3
SP #4

4. Generator's Phone (505) 475-5395

5. Transporter 1 Company Name	6. US EPA ID Number
Rhino Environmental Services	N/A
7. Transporter 2 Company Name	8. US EPA ID Number

9. Designated Facility Name and Site Address	10. US EPA ID Number
Rhino Environmental Services 1 Mile NW of Hobbs, NM Section 22.3, T18S, R38E, Lea County	NM-1051

A. Transporter's Phone
B. Transporter's Phone 505-393-4498
C. Facility's Phone 505-392-4898

11. Waste Shipping Name and Description	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
a. Hydrocarbon Contaminated Soils	1	Bulk	41,720	LBS
b.				
c.				
d.				

GENERATOR

J. Additional Descriptions for Materials Listed Above

Non-Hazardous Materials

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

Cell 2

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name	Signature	Month	Day	Year
WARREN NEFF	Warren Neff	9	30	96

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
Duke A. Gutierrez	[illegible]	9	30	96

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year

FACILITY

19. Discrepancy Indication Space

Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name	Signature	Month	Day	Year
[illegible]	[illegible]	9	30	96

12-BLS-05 Rev [illegible]

GENERATOR'S COPY

№ 12445 STATE CERTIFICATE OF WEIGHTS AND MEASURES

DRIVER'S WEIGHT CERTIFICATE

NAME OF CARRIER (BEKINS MOVING & STGE.) (BEKINS VAN LINES)

OTHER CARRIER Rhino

Vehicle Identification 530 112

Name of Shipper

Origin of Shipment Destination of Shipment

78670
38600
40,070

lbs. Gross — Gross weight of loaded vehicle, with driver only, thereon.

lbs. Tare — Tare weight of vehicle, with driver only, thereon, including full gasoline tank and all necessary pads, chains, dollies, hand trucks, and other equipment.

lbs. Net — Net weight of the shipment.

THIS FORM PRESCRIBED BY INTERSTATE COMMERCE COMMISSION
EX PARTE - MC - 19
AS AMENDED EFFECTIVE JUNE 1, 1970

Signed M. Patsuanda Weighmaster

The gross and tare weights were obtained at scales

NMDA APPROVED

GROSS	NAME OF SCALE OWNER	(BEKINS M & S) /	(BEKINS MOVING & STGE.)
	LOCATION	2315 S. Valley Dr. Las Cruces, N. M. /	US 70 W Alamogordo, N. M.
TARE	NAME OF SCALE OWNER	(BEKINS M & S) /	(BEKINS MOVING & STGE.)
	LOCATION	2315 S. Valley Dr. Las Cruces, N. M. /	US 70 W Alamogordo, N. M.

As shown by attached weight ticket(s) prepared by the weighmaster.

(Attach only gross weight ticket if tare weight is obtained from a weight ticket on shipments listed below.)

DRIVER ON ☐ OFF ☒

Chg $5.00

(LIST OF SHIPMENTS, IF ANY, ON VEHICLE AT TIME ABOVE WEIGHTS WERE OBTAINED)

SHIPPER	NET WEIGHT

I CERTIFY THE ABOVE ENTRIES ARE TRUE AND CORRECT.

DATE 9-30-96 B/L No. Dalan Stahing (Driver's Signature)

NON-HAZARDOUS WASTE MANIFEST	1. Generator's US EPA ID No.	Manifest Document No. 807390	2. Page 1 of 1	540-2113

3. Generator's Name and Mailing Address

Holloman Air Force Base
Holloman AFB, NM

19 SW 1

SWMU 3
SP #3

4. Generator's Phone (505) 475-5395

5. Transporter 1 Company Name	6. US EPA ID Number
Rhino Environmental Services	N/A

7. Transporter 2 Company Name	8. US EPA ID Number

9. Designated Facility Name and Site Address	10. US EPA ID Number
Rhino Environmental Services 1 Mile NW of Newkirk, NM Section 22.5, T26S, R6E, Otero County	DP-1051

A. Transporter's Phone
B. Transporter's Phone 505-392-4498
C. Facility's Phone 505-392-4498

11. Waste Shipping Name and Description	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
a. Hydrocarbon Contaminated Soils	1	DRM	4 x 10	lbs
b.				
c.				
d.				

GENERATOR

D. Additional Descriptions for Materials Listed Above

Non-Hazardous Materials

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name	Signature	Month	Day	Year
WARREN NEFF	Warren Neff	19	30	96

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year

FA

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name	Signature	Month	Day	Year
		19	30	96

GENERATOR'S COPY

12-BLS-CS-R0-4/96

№ 12444 STATE CERTIFICATE OF WEIGHTS AND MEASURES

DRIVER'S WEIGHT CERTIFICATE

NAME OF CARRIER (BEKINS MOVING & STGE.) (BEKINS VAN LINES)

OTHER CARRIER Rhino

Vehicle Identification 540-113

Name of Shipper

Origin of Shipment Destination of Shipment

82270
32380
49,890

lbs. Gross — Gross weight of loaded vehicle, with driver only, thereon.

lbs. Tare — Tare weight of vehicle, with driver only, thereon, including full gasoline tank and all necessary pads, chains, dollies, hand trucks, and other equipment.

lbs. Net — Net weight of the shipment.

THIS FORM PRESCRIBED BY INTERSTATE COMMERCE COMMISSION
EX PARTE - MC - 19
AS AMENDED EFFECTIVE JUNE 1, 1970

Signed M. Patrevande
Weighmaster

The gross and tare weights were obtained at scales

NMDA APPROVED

GROSS	NAME OF SCALE OWNER	(BEKINS M & S) /	(BEKINS MOVING & STGE.)
	LOCATION	2315 S. Valley Dr. Las Cruces, N. M. /	US 70 W Alamogordo, N. M.
TARE	NAME OF SCALE OWNER	(BEKINS M & S) /	(BEKINS MOVING & STGE.)
	LOCATION	2315 S. Valley Dr. Las Cruces, N. M. /	US 70 W Alamogordo, N. M.

As shown by attached weight ticket(s) prepared by the weighmaster.

(Attach only gross weight ticket if tare weight is obtained from a weight ticket on shipments listed below.)

DRIVER ON ☐ OFF ☒

Chg 5.00

(LIST OF SHIPMENTS, IF ANY, ON VEHICLE AT TIME ABOVE WEIGHTS WERE OBTAINED)

SHIPPER	NET WEIGHT

I CERTIFY THE ABOVE ENTRIES ARE TRUE AND CORRECT.

DATE 9-30-96 B/L No. George Gains (Driver's Signature)

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.

Manifest Document No.

2. Page 1 of 530-112

Generator's Name and Mailing Address

Holloman Air Force Base
Holloman, NM 88330
49CES/CEV

Group 3
Site #2

4. Generator's Phone (505) 475-5395

5. Transporter 1 Company Name: Rhino Environmental Services

6. US EPA ID Number: N/A

7. Transporter 2 Company Name

8. US EPA ID Number

9. Designated Facility Name and Site Address: Rhino Environmental Services (NM-100)
1 Mile NW of Hobbs, NM
Section 22.3, T19S, R38, Lea County

10. US EPA ID Number

A. Transporter's Phone

B. Transporter's Phone 505-392-4498

C. Facility's Phone 505-392-4898

11. Waste Shipping Name and Description	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
a. Hydrocarbon Contaminated Soils	1	SU	51,880	lbs
b.				
c.				
d.				

GENERATOR

J. Additional Descriptions for Materials Listed Above: Non-hazardous materials

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name: WARREN NEFF | Signature: Warren Neff | Month 9 Day 30 Year 96

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: Duane A. Gutierrez | Signature: [illegible] | Month 9 Day 30 Year 96

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name | Signature | Month | Day | Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name | Signature: [illegible] | Month 9 Day 30 Year 96

12-BLS-C5 Rev

GENERATOR'S COPY

№ 12442 STATE CERTIFICATE OF WEIGHTS AND MEASURES

DRIVER'S WEIGHT CERTIFICATE

NAME OF CARRIER (BEKINS MOVING & STGE.) (BEKINS VAN LINES)

OTHER CARRIER Rhino

Vehicle Identification 530-112

Name of Shipper

Origin of Shipment Destination of Shipment

90480
38600
51880

lbs. Gross — Gross weight of loaded vehicle, with driver only, thereon.

lbs. Tare — Tare weight of vehicle, with driver only, thereon, including full gasoline tank and all necessary pads, chains, dollies, hand trucks, and other equipment.

lbs. Net — Net weight of the shipment.

THIS FORM PRESCRIBED BY INTERSTATE COMMERCE COMMISSION
EX PARTE - MC - 19
AS AMENDED EFFECTIVE JUNE 1, 1970

Signed M. Patrenaude Weighmaster

The gross and tare weights were obtained at scales

NMDA APPROVED

GROSS	NAME OF SCALE OWNER	(BEKINS M & S) /	(BEKINS MOVING & STGE.)
	LOCATION	2315 S. Valley Dr. Las Cruces, N. M. /	US 70 W Alamogordo, N. M.
TARE	NAME OF SCALE OWNER	(BEKINS M & S) /	(BEKINS MOVING & STGE.)
	LOCATION	2315 S. Valley Dr. Las Cruces, N. M. /	US 70 W Alamogordo, N. M.

As shown by attached weight ticket(s) prepared by the weighmaster.

(Attach only gross weight ticket if tare weight is obtained from a weight ticket on shipments listed below.)

DRIVER ON ☐ OFF ☒

Chg 500

(LIST OF SHIPMENTS, IF ANY, ON VEHICLE AT TIME ABOVE WEIGHTS WERE OBTAINED)

SHIPPER	NET WEIGHT

I CERTIFY THE ABOVE ENTRIES ARE TRUE AND CORRECT.

DATE 9-30-96 B/L No. Dulce Stirling (Signature)

Please print or type.
(Form designed for use on elite (12-pitch) typewriter.)

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.

Manifest Document No.

2. Page 1 of 540-113

3. Generator's Name and Mailing Address

Holloman Air Force Base 49 CES/CEV
Holloman AFB, NM

SWMU-3
SP No. 1

4. Generator's Phone

5. Transporter 1 Company Name

6. US EPA ID Number

7. Transporter 2 Company Name

8. US EPA ID Number

9. Designated Facility Name and Site Address

10. US EPA ID Number

Waste Environmental Services TX-1053
1 Mile NW of Gatesville, NM
Section 22 S, T25S, R6E [illegible] County

A. Transporter's Phone

B. Transporter's Phone 505-392-4498

C. Facility's Phone 505-392-4498

11. Waste Shipping Name and Description	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
a. Hydrocarbon contaminated soils	2	Bulk	4,590	lbs
b.				
c.				
d.				

D. Additional Descriptions for Materials Listed Above

Non-hazardous Materials

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name: WARREN NEFF

Signature: Warren Neff

Month Day Year: 10 19 96

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year: 9 5 96

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name

Signature

Month Day Year

GENERATOR

TRANSPORTER

FACILITY

12 BLS 05 Rev. 1/90

GENERATOR'S COPY

№ 12441 STATE CERTIFICATE OF WEIGHTS AND MEASURES

DRIVER'S WEIGHT CERTIFICATE

NAME OF CARRIER (BEKINS MOVING & STGE.) (BEKINS VAN LINES)

OTHER CARRIER Rhino

Vehicle Identification 540-113

Name of Shipper

Origin of Shipment Destination of Shipment

76470
32380
44090

lbs. Gross — Gross weight of loaded vehicle, with driver only, thereon.

lbs. Tare — Tare weight of vehicle, with driver only, thereon, including full gasoline tank and all necessary pads, chains, dollies, hand trucks, and other equipment.

lbs. Net — Net weight of the shipment.

THIS FORM PRESCRIBED BY INTERSTATE COMMERCE COMMISSION
EX PARTE - MC - 19
AS AMENDED EFFECTIVE JUNE 1, 1970

Signed M. Patrick Weighmaster

The gross and tare weights were obtained at scales

NMDA APPROVED

GROSS	NAME OF SCALE OWNER	(BEKINS M & S) /	(BEKINS MOVING & STGE.)
	LOCATION	2315 S. Valley Dr. Las Cruces, N. M. /	US 70 W Alamogordo, N. M.
TARE	NAME OF SCALE OWNER	(BEKINS M & S) /	(BEKINS MOVING & STGE.)
	LOCATION	2315 S. Valley Dr. Las Cruces, N. M. /	US 70 W Alamogordo, N. M.

As shown by attached weight ticket(s) prepared by the weighmaster.

(Attach only gross weight ticket if tare weight is obtained from a weight ticket on shipments listed below.)

DRIVER ON ☐ OFF ☒

Chg 500

(LIST OF SHIPMENTS, IF ANY, ON VEHICLE AT TIME ABOVE WEIGHTS WERE OBTAINED)

SHIPPER	NET WEIGHT

I CERTIFY THE ABOVE ENTRIES ARE TRUE AND CORRECT.

DATE 9-30-96 B/L No. George Davis (Driver's Signature)

Please print or type.
(Form designed for use on elite (12-pitch) typewriter.)

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.

Manifest Document No.

2. Page 1 of 530-112

Generator's Name and Mailing Address

Holloman Air Force Base 49CES/CEV
Holloman AFB, NM

4. Generator's Phone (505) 475-5315

5. Transporter 1 Company Name

6. US EPA ID Number

Rhino Environmental Services

7. Transporter 2 Company Name

8. US EPA ID Number

9. Designated Facility Name and Site Address

10. US EPA ID Number

Rhino Environmental Services Deming
1 Mile SW of Deming, NM
Section 23, T25S, R6W, Luna County

A. Transporter's Phone

B. Transporter's Phone

C. Facility's Phone 505-542-4458

11. Waste Shipping Name and Description	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
a. Hydrocarbon Contaminated Soil	1	bu	412,310	lbs
b.				
c.				
d.				

D. Additional Descriptions for Materials Listed Above

Non-Hazardous Materials

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

16. **GENERATOR'S CERTIFICATION:** I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name	Signature	Month	Day	Year
WARREN NEFF	Warren Neff	09	12	96

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
[illegible]	[illegible]	9	26	96

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year

19. Discrepancy Indication Space

Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name	Signature	Month	Day	Year
		9	26	96

GENERATOR

TRANSPORTER

FACILITY

12-BLS-C5 Rev. 4/94

GENERATOR'S COPY

№ 12436 STATE CERTIFICATE OF WEIGHTS AND MEASURES

DRIVER'S WEIGHT CERTIFICATE

NAME OF CARRIER (BEKINS MOVING & STGE.) (BEKINS VAN LINES)

OTHER CARRIER Rhino

Vehicle Identification 530-112

Name of Shipper

Origin of Shipment Destination of Shipment

80900
38600
42300

lbs. Gross — Gross weight of loaded vehicle, with driver only, thereon.

lbs. Tare — Tare weight of vehicle, with driver only, thereon, including full gasoline tank and all necessary pads, chains, dollies, hand trucks, and other equipment.

lbs. Net — Net weight of the shipment.

THIS FORM PRESCRIBED BY INTERSTATE COMMERCE COMMISSION
EX PARTE - MC - 19
AS AMENDED EFFECTIVE JUNE 1, 1970

Signed M. Pazzeaude
Weighmaster

The gross and tare weights were obtained at scales

NMDA APPROVED

GROSS	NAME OF SCALE OWNER	(BEKINS M & S) /	(BEKINS MOVING & STGE.)
	LOCATION	2315 S. Valley Dr. Las Cruces, N. M. /	US 70 W Alamogordo, N. M. ✓
TARE	NAME OF SCALE OWNER	(BEKINS M & S) /	(BEKINS MOVING & STGE.)
	LOCATION	2315 S. Valley Dr. Las Cruces, N. M. /	US 70 W Alamogordo, N. M.

As shown by attached weight ticket(s) prepared by the weighmaster.

(Attach only gross weight ticket if tare weight is obtained from a weight ticket on shipments listed below.)

DRIVER ON ☐ OFF ☒

Chg 500

(LIST OF SHIPMENTS, IF ANY, ON VEHICLE AT TIME ABOVE WEIGHTS WERE OBTAINED)

SHIPPER	NET WEIGHT

I CERTIFY THE ABOVE ENTRIES ARE TRUE AND CORRECT.

DATE 9-27-96 B/L No.

(Driver Signature)

Please print or type.
(Form designed for use on elite (12-pitch) typewriter.)

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.

Manifest Document No.

2. Page 1 of 1

3. Generator's Name and Mailing Address

Holloman Air Force Base
Holloman AFB, NM

4. Generator's Phone ( )

5. Transporter 1 Company Name

Rhino Environmental Services

6. US EPA ID Number

7. Transporter 2 Company Name

8. US EPA ID Number

9. Designated Facility Name and Site Address

Rhino Environmental Services OF 1051
1 Mile NW of Hobbs, NM

10. US EPA ID Number

A. Transporter's Phone

B. Transporter's Phone 505-392-4498

C. Facility's Phone 505-392-4498

GENERATOR

11. Waste Shipping Name and Description	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
a. Hydrocarbon contaminated soils	1	Box	[illegible]	[illegible]
b.				
c.				
d.				

D. Additional Descriptions for Materials Listed Above

Non Hazardous Waste

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

16. **GENERATOR'S CERTIFICATION:** I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name: WARREN NEFF | Signature: Warren Neff | Month [illegible] Day [illegible] Year [illegible]

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: [illegible] | Signature: [illegible] | Month [illegible] Day [illegible] Year 19

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name | Signature | Month Day Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name | Signature | Month [illegible] Day [illegible] Year 19[illegible]

12 BLS C5 Rev 1/94

GENERATOR'S COPY

№ 12435

STATE CERTIFICATE OF WEIGHTS AND MEASURES

DRIVER'S WEIGHT CERTIFICATE

NAME OF CARRIER (BEKINS MOVING & STGE.) (BEKINS VAN LINES)

OWNER CARRIER RHINO

Vehicle Identification 540/113

Name of Shipper

Origin of Shipment

Destination of Shipment

70470
32380
38,090

lbs. Gross — Gross weight of loaded vehicle, with driver only, thereon.

lbs. Tare — Tare weight of vehicle, with driver only, thereon, including full gasoline tank and all necessary pads, chains, dollies, hand trucks, and other equipment.

lbs. Net — Net weight of the shipment.

THIS FORM PRESCRIBED BY INTERSTATE COMMERCE COMMISSION
EX PARTE - MC - 19
AS AMENDED EFFECTIVE JUNE 1, 1970

Signed Juan Dx a -
Weighmaster

The gross and tare weights were obtained at scales

NMDA APPROVED

GROSS	NAME OF SCALE OWNER	(BEKINS M & S) /	(BEKINS MOVING & STGE.
	LOCATION	2315 S. Valley Dr. Las Cruces, N. M. /	US 70 W Alamogordo, N. M.
TARE	NAME OF SCALE OWNER	(BEKINS M & S) /	(BEKINS MOVING & STGE.)
	LOCATION	2315 S. Valley Dr. Las Cruces, N. M. /	US 70 W Alamogordo, N. M.

As shown by attached weight ticket(s) prepared by the weighmaster.

(Attach only gross weight ticket if tare weight is obtained from a weight ticket on shipments listed below.)

DRIVER ON ☐ OFF ☒ 5.00

(LIST OF SHIPMENTS, IF ANY, ON VEHICLE AT TIME ABOVE WEIGHTS WERE OBTAINED)

SHIPPER	NET WEIGHT

I CERTIFY THE ABOVE ENTRIES ARE TRUE AND CORRECT.

DATE 09-27-96 No. George Haines (Driver's Signature)

NON-HAZARDOUS WASTE MANIFEST

Generator's US EPA ID No.

Manifest Document No. R01385

2. Page 1 of 1

1. Generator's Name and Mailing Address

Holloman Air Force Base
Holloman AFB, NM

SWMU-3
NO. 4

4. Generator's Phone ( )

5. Transporter 1 Company Name: Rhino Environmental Services

6. US EPA ID Number: N/A

7. Transporter 2 Company Name

8. US EPA ID Number

9. Designated Facility Name and Site Address

Rhino Environmental Services DP-1051
1 Mile NW of Newman, NM
Section 22.3, T26S, R6E, Otero County

10. US EPA ID Number

A. Transporter's Phone

B. Transporter's Phone 505-392-4498

C. Facility's Phone 505-392-4898

11. Waste Shipping Name and Description	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
a. Hydrocarbon Contaminated Soils	1	Bulk	44020	lbs
b.				
c.				
d.				

Additional Descriptions for Materials Listed Above

Non-Hazardous Materials

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste

Printed/Typed Name: WARREN NEFF | Signature: Warren Neff | Month 09 Day 27 Year 96

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: Dukes A. Gutierrez | Signature: Dukes A. Gutierrez | Month 9 Day 27 Year 96

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name | Signature | Month Day Year

19. Discrepancy Indication Space

Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name: George Gomez | Signature: George Gomez | Month Day Year

GENERATOR

TRANSPORTER

FACILITY

ORIGINAL - RETURN TO GENERATOR

№ 12433 STATE CERTIFICATE OF WEIGHTS AND MEASURES

DRIVER'S WEIGHT CERTIFICATE

NAME OF CARRIER (BEKINS MOVING & STGE.) (BEKINS VAN LINES)

OTHER CARRIER Phico

Vehicle Identification 530-112

Name of Shipper

Origin of Shipment Destination of Shipment

82620
38600
44020

lbs. Gross — Gross weight of loaded vehicle, with driver only, thereon.

lbs. Tare — Tare weight of vehicle, with driver only, thereon, including full gasoline tank and all necessary pads, chains, dollies, hand trucks, and other equipment.

lbs. Net — Net weight of the shipment.

THIS FORM PRESCRIBED BY INTERSTATE COMMERCE COMMISSION
EX PARTE - MC - 19
AS AMENDED EFFECTIVE JUNE 1, 1970

Signed M. Parsons
Weighmaster

The gross and tare weights were obtained at scales

NMDA APPROVED

GROSS	NAME OF SCALE OWNER	(BEKINS M & S) /	(BEKINS MOVING & STGE
	LOCATION	2315 S. Valley Dr. Las Cruces, N. M. /	US 70 W Alamogordo, N. M.
TARE	NAME OF SCALE OWNER	(BEKINS M & S) /	(BEKINS MOVING & STGE.)
	LOCATION	2315 S. Valley Dr. Las Cruces, N. M. /	US 70 W Alamogordo, N. M.

As shown by attached weight ticket(s) prepared by the weighmaster.

(Attach only gross weight ticket if tare weight is obtained from a weight ticket on shipments listed below.)

DRIVER Chg
ON ☐ OFF ☒ 500

(LIST OF SHIPMENTS, IF ANY, ON VEHICLE AT TIME ABOVE WEIGHTS WERE OBTAINED)

SHIPPER	NET WEIGHT

I CERTIFY THE ABOVE ENTRIES ARE TRUE AND CORRECT.

DATE 9-30-86 B/L No. (Driver's Signature)

NON-HAZARDOUS WASTE MANIFEST	Generator's US EPA ID No.	Manifest Document No. R01384	2. Page 1 of 1	540-13

3. Generator's Name and Mailing Address Holloman Air Force Base Holloman AFB, NM 4. Generator's Phone ( )	SWMU-3 No. 4
5. Transporter 1 Company Name: Rhino Environmental Services 6. US EPA ID Number: N/A	
7. Transporter 2 Company Name 8. US EPA ID Number	
9. Designated Facility Name and Site Address: Rhino Environmental Services DP-1051 1 Mile NW of Newman, NM Section 22.3, T26S, R6E, Otero County 10. US EPA ID Number	A. Transporter's Phone B. Transporter's Phone 505-392-4498 C. Facility's Phone 505-392-4898

11. Waste Shipping Name and Description	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
a. Hydrocarbon Contaminated Soils	1	Bulk	45,380	lbs
b.				
c.				
d.				

J. Additional Descriptions for Materials Listed Above Non-Hazardous Materials	E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name	Signature	Month	Day	Year
WARREN NEFF	Warren Neff	09	27	96

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
George Goins	George Goins	9	27	96

16. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year

19. Discrepancy Indication Space

0. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name	Signature	Month	Day	Year
George Goins	George Goins	9	27	96

GENERATOR

TRANSPORTER

FACILITY

ORIGINAL - RETURN TO GENERATOR

№ 12432 STATE CERTIFICATE OF WEIGHTS AND MEASURES

DRIVER'S WEIGHT CERTIFICATE

NAME OF CARRIER (BEKINS MOVING & STGE.) (BEKINS VAN LINES)

OTHER CARRIER Rhino

Vehicle Identification 540-113

Name of Shipper

Origin of Shipment Destination of Shipment

77760
32380
45,380

lbs. Gross — Gross weight of loaded vehicle, with driver only, thereon.

lbs. Tare — Tare weight of vehicle, with driver only, thereon, including full gasoline tank and all necessary pads, chains, dollies, hand trucks, and other equipment.

lbs. Net — Net weight of the shipment.

THIS FORM PRESCRIBED BY INTERSTATE COMMERCE COMMISSION
EX PARTE - MC - 19
AS AMENDED EFFECTIVE JUNE 1, 1970

Signed M. Patrenaude Weighmaster

The gross and tare weights were obtained at scales

NMDA APPROVED

GROSS	NAME OF SCALE OWNER	(BEKINS M & S) /	(BEKINS MOVING & STGE.)
	LOCATION	2315 S. Valley Dr. Las Cruces, N. M. /	US 70 W Alamogordo, N. M.
TARE	NAME OF SCALE OWNER	(BEKINS M & S) /	(BEKINS MOVING & STGE.)
	LOCATION	2315 S. Valley Dr. Las Cruces, N. M. /	US 70 W Alamogordo, N. M.

As shown by attached weight ticket(s) prepared by the weighmaster.

(Attach only gross weight ticket if tare weight is obtained from a weight ticket on shipments listed below.)

DRIVER ON ☐ OFF ☑ Cly 500

(LIST OF SHIPMENTS, IF ANY, ON VEHICLE AT TIME ABOVE WEIGHTS WERE OBTAINED)

SHIPPER	NET WEIGHT

I CERTIFY THE ABOVE ENTRIES ARE TRUE AND CORRECT.

DATE 9-27-96 B/L No. George Gomez (Driver's Signature)

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.

Manifest Document No. R01383

2. Page 1 of 1

3. Generator's Name and Mailing Address

Holloman Air Force Base
Holloman AFB, NM

4. Generator's Phone ( )

5. Transporter 1 Company Name: Rhino Environmental Services

6. US EPA ID Number: N/A

7. Transporter 2 Company Name

8. US EPA ID Number

9. Designated Facility Name and Site Address

Rhino Environmental Services DP-1051
1 Mile NW of Newman, NM
Section 22.3, T26S, R6E, Otero County

10. US EPA ID Number

A. Transporter's Phone

B. Transporter's Phone 505-392-4498

C. Facility's Phone 505-392-4898

11. Waste Shipping Name and Description	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
a. Hydrocarbon Contaminated Soils	1	Bulk	42,100	lbs
b.				
c.				
d.				

D. Additional Descriptions for Materials Listed Above

Non-Hazardous Materials

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name: WARREN NEFF | Signature: Warren Neff | Month | Day | Year

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: Dulces M Gutierrez | Signature: Dulces M Gutierrez | Month: 9 | Day: 26 | Year: 96

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name | Signature | Month | Day | Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name: George Gains | Signature: George Gains | Month | Day | Year

GENERATOR'S COPY

№ 12431

STATE CERTIFICATE OF WEIGHTS AND MEASURES

DRIVER'S WEIGHT CERTIFICATE

NAME OF CARRIER (BEKINS MOVING & STGE.) (BEKINS VAN LINES)

OTHER CARRIER Rhino

Vehicle Identification 530-112

Name of Shipper

Origin of Shipment

Destination of Shipment

80700
38600
42100

lbs. Gross — Gross weight of loaded vehicle, with driver only, thereon.

lbs. Tare — Tare weight of vehicle, with driver only, thereon, including full gasoline tank and all necessary pads, chains, dollies, hand trucks, and other equipment.

lbs. Net — Net weight of the shipment.

THIS FORM PRESCRIBED BY INTERSTATE COMMERCE COMMISSION
EX PARTE - MC - 19
AS AMENDED EFFECTIVE JUNE 1, 1970

Signed M. Patterson
Weighmaster

The gross and tare weights were obtained at scales

NMDA APPROVED

GROSS	NAME OF SCALE OWNER	(BEKINS M & S) /	(BEKINS MOVING & STGE.)
	LOCATION	2315 S. Valley Dr. Las Cruces, N. M. /	US 70 W Alamogordo, N. M.
TARE	NAME OF SCALE OWNER	(BEKINS M & S) /	(BEKINS MOVING & STGE.)
	LOCATION	2315 S. Valley Dr. Las Cruces, N. M. /	US 70 W Alamogordo, N. M.

As shown by attached weight ticket(s) prepared by the weighmaster.

(Attach only gross weight ticket if tare weight is obtained from a weight ticket on shipments listed below.)

DRIVER ON ☐ OFF ☒

Chg 5.00

(LIST OF SHIPMENTS, IF ANY, ON VEHICLE AT TIME ABOVE WEIGHTS WERE OBTAINED)

SHIPPER	NET WEIGHT

I CERTIFY THE ABOVE ENTRIES ARE TRUE AND CORRECT.

DATE 9-26-96 B/L No.

(Driver's Signature)

NON-HAZARDOUS WASTE MANIFEST	1. Generator's US EPA ID No.	Manifest Document No. R01382	2. Page 1 of 1	540-113

3. Generator's Name and Mailing Address
Holloman Air Force Base
Holloman AFB, NM

4. Generator's Phone ( )

SWMU-3
SP-4

5. Transporter 1 Company Name	6. US EPA ID Number
Rhino Environmental Services	N/A
7. Transporter 2 Company Name	8. US EPA ID Number

9. Designated Facility Name and Site Address
Rhino Environmental Services DP-1051
1 Mile NW of Newkirk, NM
Section 22.3, T26S, R6E, Otero County

10. US EPA ID Number

A. Transporter's Phone
B. Transporter's Phone 505-392-4498
C. Facility's Phone 505-392-4898

11. Waste Shipping Name and Description	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
a. Hydrocarbon Contaminated Soils	1	Bulk	[illegible]	[illegible]
b.				
c.				
d.				

D. Additional Descriptions for Materials Listed Above
Non-Hazardous Materials

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name	Signature	Month	Day	Year
WARREN NEFF	Warren Neff	9	26	96

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
George Gains	George Gains	9	26	96

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name	Signature	Month	Day	Year
George Gains	George Gains	9	26	96

GENERATOR

TRANSPORTER

FACILITY

GENERATOR'S COPY

№ 12430 STATE CERTIFICATE OF WEIGHTS AND MEASURES

DRIVER'S WEIGHT CERTIFICATE

NAME OF CARRIER (BEKINS MOVING & STGE.) (BEKINS VAN LINES)

OTHER CARRIER Rhino

Vehicle Identification 540-113

Name of Shipper

Origin of Shipment Destination of Shipment

79340 lbs. Gross — Gross weight of loaded vehicle, with driver only, thereon.

32380 lbs. Tare — Tare weight of vehicle, with driver only, thereon, including full gasoline tank and all necessary pads, chains, dollies, hand trucks, and other equipment.

46960 lbs. Net — Net weight of the shipment.

THIS FORM PRESCRIBED BY INTERSTATE COMMERCE COMMISSION EX PARTE MC 19 AS AMENDED EFFECTIVE JUNE 1, 1970

Signed M. Patterson Weighmaster

The gross and tare weights were obtained at scales

NMDA APPROVED

GROSS	NAME OF SCALE OWNER	(BEKINS M & S)	(BEKINS MOVING & STGE
	LOCATION	2315 S. Valley Dr. Las Cruces, N.M.	US 70 W Alamogordo, N. M.
TARE	NAME OF SCALE OWNER	(BEKINS M & S)	(BEKINS MOVING & STGE.)
	LOCATION	2315 S. Valley Dr. Las Cruces, N. M.	US 70 W Alamogordo, N. M.

As shown by attached weight ticket(s) prepared by the weighmaster.

(Attach only gross weight ticket if tare weight is obtained from a weight ticket on shipments listed below.)

DRIVER'S CHG. ON BILL OF LADING $5.00

(LIST OF SHIPMENTS, IF ANY, ON VEHICLE AT TIME ABOVE WEIGHTS WERE OBTAINED)

SHIPPER	NET WEIGHT

I CERTIFY THE ABOVE ENTRIES ARE TRUE AND CORRECT.

DATE 9-26-96 B/L No. George Hobbs (Driver's Signature)

NON-HAZARDOUS WASTE MANIFEST	Generator's US EPA ID No.	Manifest Document No. R01381	2. Page 1 of 1

3. Generator's Name and Mailing Address
Holloman Air Force Base
Holloman AFB, NM
4. Generator's Phone ( )

SWMU-3
SP No-3

5. Transporter 1 Company Name: Rhino Environmental Services
6. US EPA ID Number: N/A
7. Transporter 2 Company Name:
8. US EPA ID Number:

9. Designated Facility Name and Site Address
Rhino Environmental Services DP-1051
1 Mile NW of Newman, NM
Section 22.3, T26S, R6E, Otero County
10. US EPA ID Number

A. Transporter's Phone
B. Transporter's Phone 505-392-4498
C. Facility's Phone 505-392-4898

11. Waste Shipping Name and Description	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
a. Hydrocarbon Contaminated Soils	1	Bulk	45890	
b.				
c.				
d.				

D. Additional Descriptions for Materials Listed Above
Non-Hazardous Materials

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name	Signature	Month	Day	Year
WARREN NEFF	Warren Neff			

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
Dulces M. Gutierrez	Dulces M. Gutierrez	9	26	96

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name	Signature
George [illegible]	

GENERATOR
TRANSPORTER
FA

ORIGINAL - RETAIN FOR GENERATOR

№ 12428 STATE CERTIFICATE OF WEIGHTS AND MEASURES

DRIVER'S WEIGHT CERTIFICATE

NAME OF CARRIER (BEKINS MOVING & STGE.) (BEKINS VAN LINES)

OTHER CARRIER Rhino

Vehicle Identification 530-112

Name of Shipper

Origin of Shipment Destination of Shipment

84490
38600
45890

lbs. Gross — Gross weight of loaded vehicle, with driver only, thereon.

lbs. Tare — Tare weight of vehicle, with driver only, thereon, including full gasoline tank and all necessary pads, chains, dollies, hand trucks, and other equipment.

lbs. Net — Net weight of the shipment.

THIS FORM PRESCRIBED BY INTERSTATE COMMERCE COMMISSION
EX PARTE - MC - 19
AS AMENDED EFFECTIVE JUNE 1, 1970

Signed M. Pacheco
Weighmaster

The gross and tare weights were obtained at scales

NMDA APPROVED

GROSS	NAME OF SCALE OWNER	(BEKINS M & S) /	(BEKINS MOVING & STGE.)
	LOCATION	2315 S. Valley Dr. Las Cruces, N. M. /	US 70 W Alamogordo, N. M.
TARE	NAME OF SCALE OWNER	(BEKINS M & S) /	(BEKINS MOVING & STGE.)
	LOCATION	2315 S. Valley Dr. Las Cruces, N. M. /	US 70 W Alamogordo, N. M.

As shown by attached weight ticket(s) prepared by the weighmaster.

(Attach only gross weight ticket if tare weight is obtained from a weight ticket on shipments listed below.)

DRIVER ON ☐ OFF ☒

Chg 500

(LIST OF SHIPMENTS, IF ANY, ON VEHICLE AT TIME ABOVE WEIGHTS WERE OBTAINED)

SHIPPER	NET WEIGHT

I CERTIFY THE ABOVE ENTRIES ARE TRUE AND CORRECT.

DATE 9-26-96 B/L No. Dulce Gutierrez (Driver's Signature)

NON-HAZARDOUS WASTE MANIFEST	2. Generator US EPA ID No.	3. Manifest Document No. R01380	4. Page 1 of 1	SWMU-3

1. Generator's Name and Mailing Address
Holloman Air Force Base
Holloman AFB, NM
4. Generator's Phone ( )

SWMU-3
SP No 3

5. Transporter 1 Company Name: Rhino Environmental Services
6. US EPA ID Number: N/A

7. Transporter 2 Company Name
8. US EPA ID Number

9. Designated Facility Name and Site Address
Rhino Environmental Services DP-1051
1 Mile NW of Newman, NM
Section 22.3, T26S, R6E, Otero County
10. US EPA ID Number

A. Transporter's Phone
B. Transporter's Phone 505-392-4498
C. Facility's Phone 505-392-4898

11. Waste Shipping Name and Description	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
a. Hydrocarbon Contaminated Soils	1	Bulk	55,460	
b.				
c.				
d.				

GENERATOR

D. Additional Descriptions for Materials Listed Above
Non-Hazardous Materials

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name	Signature	Month	Day	Year
WARREN NEFF	Warren Neff	9	26	96

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
George Goins	George Goins	9	26	96

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year

TRANSPORTER

19. Discrepancy Indication Space

FACILITY

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name	Signature	Month	Day	Year
George Goins	George Goins	[illegible]	[illegible]	[illegible]

ORIGINAL - RETURN TO GENERATOR

№ 12427 STATE CERTIFICATE OF WEIGHTS AND MEASURES

DRIVER'S WEIGHT CERTIFICATE

NAME OF CARRIER (BEKINS MOVING & STGE.) (BEKINS VAN LINES)

OTHER CARRIER Rhino

Vehicle Identification 540-113

Name of Shipper

Origin of Shipment Destination of Shipment

87840
32380
55,460

lbs. Gross — Gross weight of loaded vehicle, with driver only, thereon.

lbs. Tare — Tare weight of vehicle, with driver only, thereon, including full gasoline tank and all necessary pads, chains, dollies, hand trucks, and other equipment.

lbs. Net — Net weight of the shipment.

Signed M. Pannaude
Weighmaster

THIS FORM PRESCRIBED BY INTERSTATE COMMERCE COMMISSION
EX PARTE - MC - 19
AS AMENDED EFFECTIVE JUNE 1, 1970

The gross and tare weights were obtained at scales

NMDA APPROVED

GROSS	NAME OF SCALE OWNER	(BEKINS M & S) /	(BEKINS MOVING & STGE.)
	LOCATION	2315 S. Valley Dr. Las Cruces, N. M. /	US 70 W Alamogordo, N. M.
TARE	NAME OF SCALE OWNER	(BEKINS M & S) /	(BEKINS MOVING & STGE.)
	LOCATION	2315 S. Valley Dr. Las Cruces, N. M. /	US 70 W Alamogordo, N. M.

As shown by attached weight ticket(s) prepared by the weighmaster.

(Attach only gross weight ticket if tare weight is obtained from a weight ticket on shipments listed below.)

DRIVER ON ☐ OFF ☒

Clig 5.00

(LIST OF SHIPMENTS, IF ANY, ON VEHICLE AT TIME ABOVE WEIGHTS WERE OBTAINED)

SHIPPER	NET WEIGHT

I CERTIFY THE ABOVE ENTRIES ARE TRUE AND CORRECT.

DATE 9-26-[illegible] B/L No. George Garcia (Driver's Signature)

NON-HAZARDOUS WASTE MANIFEST

Manifest Document No. R01379

Page 1 of 1 530-112

1. Generator's Name and Mailing Address
Holloman Air Force Base
Holloman AFB, NM
49 CES/CEV

SWMU 3
SP # 3

4. Generator's Phone (505) 475-5395

5. Transporter 1 Company Name: Rhino Environmental Services
6. US EPA ID Number: N/A

7. Transporter 2 Company Name
8. US EPA ID Number

9. Designated Facility Name and Site Address
Rhino Environmental Services DP-1051
1 Mile NW of Newman, NM
Section 22.3, T26S, R6E, Otero County
10. US EPA ID Number

A. Transporter's Phone
B. Transporter's Phone 505-392-4498
C. Facility's Phone 505-392-4898

11. Waste Shipping Name and Description	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
a. Hydrocarbon Contaminated Soils	1	Bulk	41870	
b.				
c.				
d.				

D. Additional Descriptions for Materials Listed Above
Non-Hazardous Materials

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name: WARREN NEFF
Signature: Warren Neff
Month 9 Day 26 Year 96

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: Dulces N. Gutierrez
Signature: Dulces N. Gutierrez
Month 9 Day 26 Year 95

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name
Signature
Month Day Year

19. Discrepancy Indication Space

Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in item 19.

Printed/Typed Name
Signature
Month

GENERATOR
TRANSPORTER
FACILITY

ORIGINAL - RETURN TO GENERATOR

№ 12424 STATE CERTIFICATE OF WEIGHTS AND MEASURES

DRIVER'S WEIGHT CERTIFICATE

NAME OF CARRIER (BEKINS MOVING & STGE.) (BEKINS VAN LINES)

OTHER CARRIER Rhino

Vehicle Identification 530-112

Name of Shipper

Origin of Shipment Destination of Shipment

80470
38600
41870

lbs. Gross — Gross weight of loaded vehicle, with driver only, thereon.

lbs. Tare — Tare weight of vehicle, with driver only, thereon, including full gasoline tank and all necessary pads, chains, dollies, hand trucks, and other equipment.

lbs. Net — Net weight of the shipment.

THIS FORM PRESCRIBED BY INTERSTATE COMMERCE COMMISSION
EX PARTE - MC - 19
AS AMENDED EFFECTIVE JUNE 1, 1970

Signed M. Patmanda
Weighmaster

The gross and tare weights were obtained at scales NMDA APPROVED

GROSS	NAME OF SCALE OWNER	(BEKINS M & S) /	(BEKINS MOVING & STGE
	LOCATION	2315 S. Valley Dr. Las Cruces, N. M. /	US 70 W Alamogordo, N. M.
TARE	NAME OF SCALE OWNER	(BEKINS M & S) /	(BEKINS MOVING & STGE.)
	LOCATION	2315 S. Valley Dr. Las Cruces, N. M. /	US 70 W Alamogordo, N. M.

As shown by attached weight ticket(s) prepared by the weighmaster.

(Attach only gross weight ticket if tare weight is obtained from a weight ticket on shipments listed below.)

DRIVER ON ☐ OFF ☒

Chg 500

(LIST OF SHIPMENTS, IF ANY, ON VEHICLE AT TIME ABOVE WEIGHTS WERE OBTAINED)

SHIPPER	NET WEIGHT

I CERTIFY THE ABOVE ENTRIES ARE TRUE AND CORRECT.

DATE 9-26-96 B/L No.

(Driver's Signature)

NON-HAZARDOUS WASTE MANIFEST	Generator's US EPA ID No.	Manifest Document No. R01378	Page 1 of 1 540-113

3. Generator's Name and Mailing Address Holloman Air Force Base 49CES/CEV Holloman AFB, NM	SWMU 3 SP #2
4. Generator's Phone (505) 475-5395	
5. Transporter 1 Company Name: Rhino Environmental Services	6. US EPA ID Number: N/A
7. Transporter 2 Company Name	6. US EPA ID Number
9. Designated Facility Name and Site Address Rhino Environmental Services DP-1051 1 Mile NW of Newman, NM Section 22.3, T26S, R6E, Otero County	10. US EPA ID Number A. Transporter's Phone B. Transporter's Phone 505-392-4498 C. Facility's Phone 505-392-4898

11. Waste Shipping Name and Description	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
a. Hydrocarbon Contaminated Soils	1	Bulk	41270	
b.				
c.				
d.				

D. Additional Descriptions for Materials Listed Above	E. Handling Codes for Wastes Listed Above
Non-Hazardous Materials	

15. Special Handling Instructions and Additional Information

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name	Signature	Month	Day	Year
WARREN NEFF	Warren Neff	9	26	96

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
George Gains	George Gains	9	26	96

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name	Signature	Month	Day	Year
George Gains	George Gains	9	27	97

GENERATOR

TRANSPORTER

FACILITY

ORIGINAL - RETURN TO GENERATOR

№ 12423

STATE CERTIFICATE OF WEIGHTS AND MEASURES

DRIVER'S WEIGHT CERTIFICATE

NAME OF CARRIER (BEKINS MOVING & STGE.) (BEKINS VAN LINES)

OTHER CARRIER Rhino

Vehicle Identification 540-113

Name of Shipper

Origin of Shipment

Destination of Shipment

73650
32380
41,270

lbs. Gross — Gross weight of loaded vehicle, with driver only, thereon.

lbs. Tare — Tare weight of vehicle, with driver only, thereon, including full gasoline tank and all necessary pads, chains, dollies, hand trucks, and other equipment.

lbs. Net — Net weight of the shipment.

Signed M. Patrenaude
Weighmaster

THIS FORM PRESCRIBED BY INTERSTATE COMMERCE COMMISSION
EX PARTE - MC - 19
AS AMENDED EFFECTIVE JUNE 1, 1970

The gross and tare weights were obtained at scales

NMDA APPROVED

GROSS	NAME OF SCALE OWNER	(BEKINS M & S) /	(BEKINS MOVING & STGE
	LOCATION	2315 S. Valley Dr. Las Cruces, N. M. /	US 70 W Alamogordo, N. M.
TARE	NAME OF SCALE OWNER	(BEKINS M & S) /	(BEKINS MOVING & STGE.)
	LOCATION	2315 S. Valley Dr. Las Cruces, N. M. /	US 70 W Alamogordo, N. M.

As shown by attached weight ticket(s) prepared by the weighmaster.

(Attach only gross weight ticket if tare weight is obtained from a weight ticket on shipments listed below.)

DRIVER ON ☐ OFF ☒

Clg 500

(LIST OF SHIPMENTS, IF ANY, ON VEHICLE AT TIME ABOVE WEIGHTS WERE OBTAINED)

SHIPPER	NET WEIGHT

I CERTIFY THE ABOVE ENTRIES ARE TRUE AND CORRECT.

DATE 9-26-96 B/L No.

George Gaiss (Driver's Signature)

NON-HAZARDOUS WASTE MANIFEST	1. Generator's US EPA ID No.	Manifest Document No. R01377	2. Page 1 of 1	530-112

3. Generator's Name and Mailing Address
Holloman Air Force Base 49CES/CEV
Holloman AFB, NM
4. Generator's Phone (505) 475-5395

SWMU 3
SP#2

5. Transporter 1 Company Name	6. US EPA ID Number
Rhino Environmental Services	N/A
7. Transporter 2 Company Name	8. US EPA ID Number

9. Designated Facility Name and Site Address — 10. US EPA ID Number
Rhino Environmental Services DP-1051
1 Mile NW of Newman, NM
Section 22.3, T26S, R6E, Otero County

A. Transporter's Phone
B. Transporter's Phone 505-392-4498
C. Facility's Phone 505-392-4898

11. Waste Shipping Name and Description	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
a. Hydrocarbon Contaminated Soils	1	Bulk	46,550	#s
b.				
c.				
d.				

D. Additional Descriptions for Materials Listed Above
Non-Hazardous Materials

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

GENERATOR

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name	Signature	Month	Day	Year
WARREN NEFF	Warren Neff	9	25	96

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
Dulces N. Gutierrez	[illegible]	9	25	96

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year

FA

19. Discrepancy Indication Space

Y

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name	Signature	Month	Day	Year
George Goins	George Goins	9	25	96

ORIGINAL – RETURN TO GENERATOR

12BLS-05 Rev

№ 12420 STATE CERTIFICATE OF WEIGHTS AND MEASURES

DRIVER'S WEIGHT CERTIFICATE

NAME OF CARRIER (BEKINS MOVING & STGE.) (BEKINS VAN LINES)

OTHER CARRIER Chino

Vehicle Identification 530-112

Name of Shipper

Origin of Shipment Destination of Shipment

85150 lbs. Gross — Gross weight of loaded vehicle, with driver only, thereon.

38600 lbs. Tare — Tare weight of vehicle, with driver only, thereon, including full gasoline tank and all necessary pads, chains, dollies, hand trucks, and other equipment.

46550 lbs. Net — Net weight of the shipment.

THIS FORM PRESCRIBED BY INTERSTATE COMMERCE COMMISSION
EX PARTE - MC - 19
AS AMENDED EFFECTIVE JUNE 1, 1970

Signed M. Patrenaude
Weighmaster

The gross and tare weights were obtained at scales

NMDA APPROVED

GROSS	NAME OF SCALE OWNER	(BEKINS M & S) /	(BEKINS MOVING & STGE
	LOCATION	2315 S. Valley Dr. Las Cruces, N. M. /	US 70 W Alamogordo, N. M.
TARE	NAME OF SCALE OWNER	(BEKINS M & S) /	(BEKINS MOVING & STGE.)
	LOCATION	2315 S. Valley Dr. Las Cruces, N. M. /	US 70 W Alamogordo, N. M.

As shown by attached weight ticket(s) prepared by the weighmaster.

(Attach only gross weight ticket if tare weight is obtained from a weight ticket on shipments listed below.)

DRIVER ON ☐ OFF ☒

Chg 500

(LIST OF SHIPMENTS, IF ANY, ON VEHICLE AT TIME ABOVE WEIGHTS WERE OBTAINED)

SHIPPER	NET WEIGHT

I CERTIFY THE ABOVE ENTRIES ARE TRUE AND CORRECT.

DATE 9-25-96 B/L No.

Delos Gathing (Driver's Signature)

NON-HAZARDOUS WASTE MANIFEST	1. Generator's US EPA ID No.	Manifest Document No. R01376	2. Page 1 of 1	540-113

3. Generator's Name and Mailing Address
Holloman Air Force Base
Holloman AFB, NM
49 CES/CEV
SWMU 3
SP # 3

4. Generator's Phone (505) 475-5395

5. Transporter 1 Company Name: Rhino Environmental Services
6. US EPA ID Number: N/A

7. Transporter 2 Company Name
8. US EPA ID Number

9. Designated Facility Name and Site Address
Rhino Environmental Services DP-1051
1 Mile NW of Newman, NM
Section 22.3, T26S, R6E, Otero County
10. US EPA ID Number

A. Transporter's Phone
B. Transporter's Phone 505-392-4498
C. Facility's Phone 505-392-4898

11. Waste Shipping Name and Description	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
a. Hydrocarbon Contaminated Soils	1	Bulk	44,940	#s
b.				
c.				
d.				

D. Additional Descriptions for Materials Listed Above
Non-Hazardous Materials

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.
Printed/Typed Name: WARREN NEFF
Signature: Warren Neff
Month 9 Day 25 Year 96

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: George Goins
Signature: George Goins
Month 9 Day 25 Year 96

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name
Signature
Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.
Printed/Typed Name: George Goins
Signature: George Goins
Month 9 Day 25 Year 96

GENERATOR
TRANSPORTER
FACILITY

ORIGINAL – RETURN TO GENERATOR

№ 12421

STATE CERTIFICATE OF WEIGHTS AND MEASURES

DRIVER'S WEIGHT CERTIFICATE

NAME OF CARRIER (BEKINS MOVING & STGE.) (BEKINS VAN LINES)

OTHER CARRIER RHINO

Vehicle Identification 540 | 113

Name of Shipper

Origin of Shipment

Destination of Shipment

77320
32380
44940

lbs. Gross — Gross weight of loaded vehicle, with driver only, thereon.

lbs. Tare — Tare weight of vehicle, with driver only, thereon, including full gasoline tank and all necessary pads, chains, dollies, hand trucks, and other equipment.

lbs. Net — Net weight of the shipment.

Signed Juan [illegible]
Weighmaster

THIS FORM PRESCRIBED BY INTERSTATE COMMERCE COMMISSION
EX PARTE - MC - 19
AS AMENDED EFFECTIVE JUNE 1, 1970

The gross and tare weights were obtained at scales

NMDA APPROVED

GROSS	NAME OF SCALE OWNER	(BEKINS M & S) /	(BEKINS MOVING & STGE.)
	LOCATION	2315 S. Valley Dr. Las Cruces, N. M. /	US 70 W Alamogordo, N. M.
TARE	NAME OF SCALE OWNER	(BEKINS M & S) /	(BEKINS MOVING & STGE.)
	LOCATION	2315 S. Valley Dr. Las Cruces, N. M. /	US 70 W Alamogordo, N. M.

As shown by attached weight ticket(s) prepared by the weighmaster.

(Attach only gross weight ticket if tare weight is obtained from a weight ticket on shipments listed below.)

DRIVER ON ☐ OFF ☒

(LIST OF SHIPMENTS, IF ANY, ON VEHICLE AT TIME ABOVE WEIGHTS WERE OBTAINED)

SHIPPER	NET WEIGHT

I CERTIFY THE ABOVE ENTRIES ARE TRUE AND CORRECT.

DATE 9.25.96 B/L No.

George Lucas (Signature)

NON-HAZARDOUS WASTE MANIFEST	1. Generator's US EPA ID No.	Manifest Document No. R01375	2. Page 1 of 1	530-112

3. Generator's Name and Mailing Address
Holloman Air Force Base 49 CES/CEV
Holloman AFB, NM
4. Generator's Phone (505) 475-5395

SWMU 3
SP #4

5. Transporter 1 Company Name	6. US EPA ID Number
Rhino Environmental Services	N/A

7. Transporter 2 Company Name	6. US EPA ID Number

9. Designated Facility Name and Site Address	10. US EPA ID Number
Rhino Environmental Services 1 Mile NW of Newman, NM Section 22.3, T26S, R6E, Otero County	DP-1051

A. Transporter's Phone
B. Transporter's Phone 505-392-4498
C. Facility's Phone 505-392-4898

11. Waste Shipping Name and Description	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
a. Hydrocarbon Contaminated Soils	1	Bulk	40,370	#s
b.				
c.				
d.				

D. Additional Descriptions for Materials Listed Above
Non-Hazardous Materials

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name	Signature	Month	Day	Year
WARREN NEFF	Warren Neff	9	25	96

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
Dulces N. Gutierrez ~~WARREN NEFF~~	Dulces N. Gutierrez ~~Warren Neff~~	9	24	96

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name	Signature	Month	Day	Year
George Goins	George Goins	9	25	96

GENERATOR | TRANSPORTER | FACILITY

ORIGINAL – RETURN TO GENERATOR

№ 12418 STATE CERTIFICATE OF WEIGHTS AND MEASURES

DRIVER'S WEIGHT CERTIFICATE

NAME OF CARRIER (BEKINS MOVING & STGE.) (BEKINS VAN LINES)

OTHER CARRIER Rhino

Vehicle Identification 530-112

Name of Shipper

Origin of Shipment Destination of Shipment

78970 lbs. Gross — Gross weight of loaded vehicle, with driver only, thereon.

38600 lbs. Tare — Tare weight of vehicle, with driver only, thereon, including full gasoline tank and all necessary pads, chains, dollies, hand trucks, and other equipment.

40370 lbs. Net — Net weight of the shipment.

THIS FORM PRESCRIBED BY INTERSTATE COMMERCE COMMISSION
EX PARTE - MC - 19
AS AMENDED EFFECTIVE JUNE 1, 1970

Signed M. Patneaude
Weighmaster

The gross and tare weights were obtained at scales

NMDA APPROVED

GROSS	NAME OF SCALE OWNER	(BEKINS M & S) /	(BEKINS MOVING & STGE.)
	LOCATION	2315 S. Valley Dr. Las Cruces, N. M. /	US 70 W Alamogordo, N. M.
TARE	NAME OF SCALE OWNER	(BEKINS M & S) /	(BEKINS MOVING & STGE.)
	LOCATION	2315 S. Valley Dr. Las Cruces, N. M. /	US 70 W Alamogordo, N. M.

As shown by attached weight ticket(s) prepared by the weighmaster.

(Attach only gross weight ticket if tare weight is obtained from a weight ticket on shipments listed below.)

DRIVER ON ☐ OFF ☒

Chg 5.00

(LIST OF SHIPMENTS, IF ANY, ON VEHICLE AT TIME ABOVE WEIGHTS WERE OBTAINED)

SHIPPER	NET WEIGHT

I CERTIFY THE ABOVE ENTRIES ARE TRUE AND CORRECT.

DATE 9-25-96 B/L No.

(Driver's Signature)

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.

Manifest Document No. R01274

2. Page 1 of

540-113

3. Generator's Name and Mailing Address
Holloman Air Force Base
Holloman AFB, NM

49 CES/CEV

SWMU 3
SP#4

4. Generator's Phone (505) 475-5395

5. Transporter 1 Company Name
Rhino Environmental Services

6. US EPA ID Number
N/A

7. Transporter 2 Company Name

8. US EPA ID Number

9. Designated Facility Name and Site Address
Rhino Environmental Services
1 Mile NW of Newman, NM
Section 22.3, T26S, R6E, Otero County

10. US EPA ID Number
NMP-1051

A. Transporter's Phone 505-392-4498
B. Transporter's Phone
C. Facility's Phone 505-392-4898

11. Waste Shipping Name and Description	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
a. Hydrocarbon Contaminated Soils	1	Bulk	38,450	#s
b.				
c.				
d.				

D. Additional Descriptions for Materials Listed Above
Non-Hazardous Materials

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name	Signature	Month	Day	Year
WARREN NEFF	Warren Neff	9	25	96

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
~~WARREN NEFF~~ George Goins	~~Warren Neff~~ George Goins	9	25	96

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name	Signature	Month	Day	Year
George Goins	George Goins	9	25	96

GENERATOR → TRANSPORTER → FACILITY

ORIGINAL – RETURN TO GENERATOR

№ 12419 STATE CERTIFICATE OF WEIGHTS AND MEASURES

DRIVER'S WEIGHT CERTIFICATE

NAME OF CARRIER (BEKINS MOVING & STGE.) (BEKINS VAN LINES)

OTHER CARRIER Rhino

Vehicle Identification 540-113

Name of Shipper

Origin of Shipment Destination of Shipment

70830
32380
38,450

lbs. Gross — Gross weight of loaded vehicle, with driver only, thereon.

lbs. Tare — Tare weight of vehicle, with driver only, thereon, including full gasoline tank and all necessary pads, chains, dollies, hand trucks, and other equipment.

lbs. Net — Net weight of the shipment.

Signed M. Patneaude
Weighmaster

THIS FORM PRESCRIBED BY INTERSTATE COMMERCE COMMISSION
EX PARTE - MC - 19
AS AMENDED EFFECTIVE JUNE 1, 1970

The gross and tare weights were obtained at scales

NMDA APPROVED

GROSS	NAME OF SCALE OWNER	(BEKINS M & S) /	(BEKINS MOVING & STGE.)
	LOCATION	2315 S. Valley Dr. Las Cruces, N. M. /	US 70 W Alamogordo, N. M.
TARE	NAME OF SCALE OWNER	(BEKINS M & S) /	(BEKINS MOVING & STGE.)
	LOCATION	2315 S. Valley Dr. Las Cruces, N. M. /	US 70 W Alamogordo, N. M.

As shown by attached weight ticket(s) prepared by the weighmaster.

(Attach only gross weight ticket if tare weight is obtained from a weight ticket on shipments listed below.)

DRIVER ON ☐ OFF ☒

Chg 5.00

(LIST OF SHIPMENTS, IF ANY, ON VEHICLE AT TIME ABOVE WEIGHTS WERE OBTAINED)

SHIPPER	NET WEIGHT

I CERTIFY THE ABOVE ENTRIES ARE TRUE AND CORRECT.

DATE 5-25-96 B/L No.

George Gains (Driver's Signature)

NON-HAZARDOUS WASTE MANIFEST	1. Generator's US EPA ID No.	Manifest Document No. R01373	2. Page 1 of 1	540-113

3. Generator's Name and Mailing Address

Holloman Air Force Base
Holloman AFB, NM

49 CES/CEV

SWMU 3
SP #4

4. Generator's Phone 505 475-5395

5. Transporter 1 Company Name	6. US EPA ID Number
Rhino Environmental Services	N/A
7. Transporter 2 Company Name	8. US EPA ID Number

9. Designated Facility Name and Site Address — 10. US EPA ID Number

Rhino Environmental Services DP-1051
1 Mile NW of Newman, NM
Section 22.3, T 6S, R6E, Otero County

A. Transporter's Phone
B. Transporter's Phone
C. Facility's Phone 505-392-4498

505-392-4898

11. Waste Shipping Name and Description	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
a. Hydrocarbon Contaminated Soils	1	Bulk	38,130	#s
b.				
c.				
d.				

D. Additional Descriptions for Materials Listed Above

Non-Hazardous Materials

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name	Signature	Month	Day	Year
WARREN NEFF	Warren Neff	9	24	96

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
George Goins	George Goins	9	24	96

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name	Signature	Month	Day	Year
George Goins	George Goins	9	24	96

GENERATOR → TRANSPORTER → FACILITY

ORIGINAL – RETURN TO GENERATOR

№ 12417 STATE CERTIFICATE OF WEIGHTS AND MEASURES

DRIVER'S WEIGHT CERTIFICATE

NAME OF CARRIER (BEKINS MOVING & STGE.) (BEKINS VAN LINES)

OTHER CARRIER Rhino

Vehicle Identification 540-113

Name of Shipper

Origin of Shipment Destination of Shipment

70510
32380
38,130

lbs. Gross — Gross weight of loaded vehicle, with driver only, thereon.

lbs. Tare — Tare weight of vehicle, with driver only, thereon, including full gasoline tank and all necessary pads, chains, dollies, hand trucks, and other equipment.

lbs. Net — Net weight of the shipment.

THIS FORM PRESCRIBED BY INTERSTATE COMMERCE COMMISSION
EX PARTE - MC - 19
AS AMENDED EFFECTIVE JUNE 1, 1970

Signed M. Patneaude
Weighmaster

The gross and tare weights were obtained at scales

NMDA APPROVED

GROSS	NAME OF SCALE OWNER	(BEKINS M & S) /	(BEKINS MOVING & STGE.)
	LOCATION	2315 S. Valley Dr. Las Cruces, N. M. /	US 70 W Alamogordo, N. M.
TARE	NAME OF SCALE OWNER	(BEKINS M & S) /	(BEKINS MOVING & STGE.)
	LOCATION	2315 S. Valley Dr. Las Cruces, N. M. /	US 70 W Alamogordo, N. M.

As shown by attached weight ticket(s) prepared by the weighmaster.

(Attach only gross weight ticket if tare weight is obtained from a weight ticket on shipments listed below.)

DRIVER ON ☐ OFF ☒

Chg 5.00

(LIST OF SHIPMENTS, IF ANY, ON VEHICLE AT TIME ABOVE WEIGHTS WERE OBTAINED)

SHIPPER	NET WEIGHT

I CERTIFY THE ABOVE ENTRIES ARE TRUE AND CORRECT.

DATE 9-24-96 B/L No.

George Gains (Driver's)

NON-HAZARDOUS WASTE MANIFEST	1. Generator's US EPA ID No.	Manifest Document No. R01372	2. Page 1 of 1	530-112

3. Generator's Name and Mailing Address
Holloman Air Force Base
Holloman AFB, NM
49 CES/CEV

SWMU 3
SP#3

4. Generator's Phone (505) 475-5395

5. Transporter 1 Company Name: Rhino Environmental Services
6. US EPA ID Number: N/A

7. Transporter 2 Company Name
8. US EPA ID Number

9. Designated Facility Name and Site Address
Rhino Environmental Services DP-1051
1 Mile NW of Newman, NM
Section 22.3, T26S, R6E, Otero County
10. US EPA ID Number

A. Transporter's Phone
B. Transporter's Phone
C. Facility's Phone ~~505-392-4498~~ 505-392-4898

11. Waste Shipping Name and Description	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
a. Hydrocarbon Contaminated Soils	1	Bulk	40,800	#s
b.				
c.				
d.				

D. Additional Descriptions for Materials Listed Above
Non-Hazardous Materials

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name	Signature	Month	Day	Year
WARREN NEFF	Warren Neff	9	24	96

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
Dulces N. Gutierrez	Dulces N. Gutierrez	9	24	96

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name	Signature	Month	Day	Year
George Goins	George Goins	9	24	96

GENERATOR — TRANSPORTER — FACILITY

ORIGINAL – RETURN TO GENERATOR

№ 12416 STATE CERTIFICATE OF WEIGHTS AND MEASURES

DRIVER'S WEIGHT CERTIFICATE

NAME OF CARRIER (BEKINS MOVING & STGE.) (BEKINS VAN LINES)

OTHER CARRIER Rhino

Vehicle Identification 530-112

Name of Shipper

Origin of Shipment Destination of Shipment

79400 lbs. Gross — Gross weight of loaded vehicle, with driver only, thereon.

38600 lbs. Tare — Tare weight of vehicle, with driver only, thereon, including full gasoline tank and all necessary pads, chains, dollies, hand trucks, and other equipment.

40800 lbs. Net — Net weight of the shipment.

Signed M. Patneaude
Weighmaster

THIS FORM PRESCRIBED BY INTERSTATE COMMERCE COMMISSION
EX PARTE - MC - 19
AS AMENDED EFFECTIVE JUNE 1, 1970

The gross and tare weights were obtained at scales

NMDA APPROVED

GROSS	NAME OF SCALE OWNER	(BEKINS M & S) /	(BEKINS MOVING & STGE.)
	LOCATION	2315 S. Valley Dr. Las Cruces, N. M. /	US 70 W Alamogordo, N. M.
TARE	NAME OF SCALE OWNER	(BEKINS M & S) /	(BEKINS MOVING & STGE.)
	LOCATION	2315 S. Valley Dr. Las Cruces, N. M. /	US 70 W Alamogordo, N. M.

As shown by attached weight ticket(s) prepared by the weighmaster.

(Attach only gross weight ticket if tare weight is obtained from a weight ticket on shipments listed below.)

DRIVER ON ☐ OFF ☒

Chg 5-00

(LIST OF SHIPMENTS, IF ANY, ON VEHICLE AT TIME ABOVE WEIGHTS WERE OBTAINED)

SHIPPER	NET WEIGHT

I CERTIFY THE ABOVE ENTRIES ARE TRUE AND CORRECT.

DATE 9-24-96 B/L No. (Driver's Signature)

NON-HAZARDOUS WASTE MANIFEST	1. Generator's US EPA ID No.	Manifest Document No. RD1371	2. Page 1 of 1	685-605T

Generator's Name and Mailing Address

Holloman Air Force Base
Holloman AFB, NM

49 CES/CEV

Group 3
GP 3

4. Generator's Phone ( )

5. Transporter 1 Company Name	6. US EPA ID Number
Rhino Environmental Services	N/A
7. Transporter 2 Company Name	8. US EPA ID Number

9. Designated Facility Name and Site Address	10. US EPA ID Number
Rhino Environmental Services NP-1051 1 Mile NW of Newkirk, NM Section 22.3, T26S, R6E, Otero County	

A. Transporter's Phone
B. Transporter's Phone 505-392-4498
C. Facility's Phone 505-392-4498

11. Waste Shipping Name and Description	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
a. Hydrocarbon Contaminated Soils	1	Bulk	42700	
b.				
c.				
d.				

Additional Descriptions for Materials Listed Above

Non-Hazardous Materials

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name	Signature	Month	Day	Year
Walter Lopez	[signature]	9	24	96

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
Jesus Barrera	[signature]	9	24	96

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year

19. Discrepancy Indication Space

Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name	Signature	Month	Day	Year
		9	24	96

GENERATOR → TRANSPORTER → FACILITY

12-BLS-C5 Rev. 4/94

GENERATOR'S COPY

№ 12415 STATE CERTIFICATE OF WEIGHTS AND MEASURES

DRIVER'S WEIGHT CERTIFICATE

NAME OF CARRIER (BEKINS MOVING & STGE.) (BEKINS VAN LINES)

OTHER CARRIER Rhino

Vehicle Identification 685 - 685 T

Name of Shipper

Origin of Shipment Destination of Shipment

74000 lbs. Gross — Gross weight of loaded vehicle, with driver only, thereon.

-31300 lbs. Tare — Tare weight of vehicle, with driver only, thereon, including full gasoline tank and all necessary pads, chains, dollies, hand trucks, and other equipment.

42700 lbs. Net — Net weight of the shipment.

THIS FORM PRESCRIBED BY INTERSTATE COMMERCE COMMISSION
EX PARTE - MC - 19
AS AMENDED EFFECTIVE JUNE 1, 1970

Signed M. Patneaude
Weighmaster

The gross and tare weights were obtained at scales NMDA APPROVED

GROSS	NAME OF SCALE OWNER	(BEKINS M & S) /	(BEKINS MOVING & STGE.)
	LOCATION	2315 S. Valley Dr. Las Cruces, N. M. /	US 70 W Alamogordo, N. M.
TARE	NAME OF SCALE OWNER	(BEKINS M & S) /	(BEKINS MOVING & STGE.)
	LOCATION	2315 S. Valley Dr. Las Cruces, N. M. /	US 70 W Alamogordo, N. M.

As shown by attached weight ticket(s) prepared by the weighmaster.

(Attach only gross weight ticket if tare weight is obtained from a weight ticket on shipments listed below.)

DRIVER ON ☐ OFF ☒

Chg 500

(LIST OF SHIPMENTS, IF ANY, ON VEHICLE AT TIME ABOVE WEIGHTS WERE OBTAINED)

SHIPPER	NET WEIGHT

I CERTIFY THE ABOVE ENTRIES ARE TRUE AND CORRECT.

DATE 9-24-96 B/L No.

(Driver's Signature)

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.

Manifest Document No. R01370

2. Page 1 of 1 — 530-112

3. Generator's Name and Mailing Address
Holloman Air Force Base
Holloman AFB, NM
49 CES/CEV

SWMU 3
SP #2

4. Generator's Phone (505) 475-5595

5. Transporter 1 Company Name: Rhino Environmental Services
6. US EPA ID Number: N/A

7. Transporter 2 Company Name
8. US EPA ID Number

9. Designated Facility Name and Site Address
Rhino Environmental Services DP-1051
1 Mile NW of Newman, NM
Section 22.3, T26S, R6E, Otero County
10. US EPA ID Number

A. Transporter's Phone
B. Transporter's Phone ~~505-392-4498~~
C. Facility's Phone 505-392-4898

11. Waste Shipping Name and Description	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
a. Hydrocarbon Contaminated Soils	1	Bulk	45,770	#5
b.				
c.				
d.				

D. Additional Descriptions for Materials Listed Above
Non-Hazardous Materials

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name: WARREN NEFF — Signature: Warren Neff — Month 9 Day 24 Year 96

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Dulces N. Gutierrez — Signature: Dulces N. Gutierrez — Month 9 Day 24 Year 96

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name — Signature — Month — Day — Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name: George Goins — Signature: George Goins — Month 9 Day 24 Year 96

GENERATOR → TRANSPORTER → FACILITY

ORIGINAL – RETURN TO GENERATOR

№ 12412 STATE CERTIFICATE OF WEIGHTS AND MEASURES

DRIVER'S WEIGHT CERTIFICATE

NAME OF CARRIER (BEKINS MOVING & STGE.) (BEKINS VAN LINES)

OTHER CARRIER RHINO

Vehicle Identification 530 / 112

Name of Shipper

Origin of Shipment Destination of Shipment

84370 lbs. Gross — Gross weight of loaded vehicle, with driver only, thereon.

38600 lbs. Tare — Tare weight of vehicle, with driver only, thereon, including full gasoline tank and all necessary pads, chains, dollies, hand trucks, and other equipment.

45770 lbs. Net — Net weight of the shipment.

Signed Juan Da
Weighmaster

THIS FORM PRESCRIBED BY INTERSTATE COMMERCE COMMISSION
EX PARTE - MC - 19
AS AMENDED EFFECTIVE JUNE 1, 1970

The gross and tare weights were obtained at scales NMDA APPROVED

GROSS	NAME OF SCALE OWNER	(BEKINS M & S) /	(BEKINS MOVING & STGE.)
	LOCATION	2315 S. Valley Dr. Las Cruces, N. M. /	US 70 W Alamogordo, N. M.
TARE	NAME OF SCALE OWNER	(BEKINS M & S) /	(BEKINS MOVING & STGE.)
	LOCATION	2315 S. Valley Dr. Las Cruces, N. M. /	US 70 W Alamogordo, N. M.

As shown by attached weight ticket(s) prepared by the weighmaster.

(Attach only gross weight ticket if tare weight is obtained from a weight ticket on shipments listed below.)

DRIVER ON ☐ OFF ☒

(LIST OF SHIPMENTS, IF ANY, ON VEHICLE AT TIME ABOVE WEIGHTS WERE OBTAINED)

SHIPPER	NET WEIGHT

I CERTIFY THE ABOVE ENTRIES ARE TRUE AND CORRECT.

DATE 9-24-76 B/L No.

(Driver's Signature)

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.

Manifest Document No. R01369

2. Page 1 of 1 — 540-113

3. Generator's Name and Mailing Address

Holloman Air Force Base
Holloman AFB, NM
49 CES/CEV

SWMU 3
SP 2

4. Generator's Phone (505) 475-5395

5. Transporter 1 Company Name: Rhino Environmental Services

6. US EPA ID Number: N/A

7. Transporter 2 Company Name

8. US EPA ID Number

9. Designated Facility Name and Site Address

Rhino Environmental Services DP-1051
1 Mile NW of Newman, NM
Section 22.3, T26S, R6E, Otero County

10. US EPA ID Number

A. Transporter's Phone

B. Transporter's Phone 505-392-4498

C. Facility's Phone 505-392-4898

11. Waste Shipping Name and Description	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
a. Hydrocarbon Contaminated Soils	1	Bulk	46,210	#s
b.				
c.				
d.				

D. Additional Descriptions for Materials Listed Above

Non-Hazardous Materials

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name: WARREN NEFF — Signature: Warren Neff — Month 9 Day 24 Year 96

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: George Goins — Signature: George Goins — Month 9 Day 24 Year 96

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name — Signature — Month Day Year

19. Discrepancy Indication Space

0. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name: George Goins — Signature: George Goins — Month 9 Day 24 Year 96

GENERATOR

TRANSPORTER

FACILITY

ORIGINAL – RETURN TO GENERATOR

№ 12413 STATE CERTIFICATE OF WEIGHTS AND MEASURES

DRIVER'S WEIGHT CERTIFICATE

NAME OF CARRIER (BEKINS MOVING & STGE.) (BEKINS VAN LINES)

OTHER CARRIER RHINO

Vehicle Identification 540/113

Name of Shipper

Origin of Shipment Destination of Shipment

78590
32380
46,210

lbs. Gross — Gross weight of loaded vehicle, with driver only, thereon.

lbs. Tare — Tare weight of vehicle, with driver only, thereon, including full gasoline tank and all necessary pads, chains, dollies, hand trucks, and other equipment.

lbs. Net — Net weight of the shipment.

Signed [signature] Weighmaster

THIS FORM PRESCRIBED BY INTERSTATE COMMERCE COMMISSION
EX PARTE - MC - 19
AS AMENDED EFFECTIVE JUNE 1, 1970

The gross and tare weights were obtained at scales

NMDA APPROVED

GROSS	NAME OF SCALE OWNER	(BEKINS M & S) /	(BEKINS MOVING & STGE.)
	LOCATION	2315 S. Valley Dr. Las Cruces, N. M. /	US 70 W Alamogordo, N. M. ✓
TARE	NAME OF SCALE OWNER	(BEKINS M & S) /	(BEKINS MOVING & STGE.)
	LOCATION	2315 S. Valley Dr. Las Cruces, N. M. /	US 70 W Alamogordo, N. M.

As shown by attached weight ticket(s) prepared by the weighmaster.

(Attach only gross weight ticket if tare weight is obtained from a weight ticket on shipments listed below.)

DRIVER ON ☐ OFF ☒

(LIST OF SHIPMENTS, IF ANY, ON VEHICLE AT TIME ABOVE WEIGHTS WERE OBTAINED)

SHIPPER	NET WEIGHT

I CERTIFY THE ABOVE ENTRIES ARE TRUE AND CORRECT.

DATE 9-24-76 B/L No. [signature] (Driver's Signature)

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.

Manifest Document No. R01368

2. Page 1 of 1

685- 685-1

Generator's Name and Mailing Address
Holloman Air Force Base
Holloman AFB, NM

49 CES/CEV

SWMU 3
SP #2

4. Generator's Phone (505) 475-5395

5. Transporter 1 Company Name: Rhino Environmental Services

6. US EPA ID Number: N/A

7. Transporter 2 Company Name

8. US EPA ID Number

9. Designated Facility Name and Site Address
Rhino Environmental Services
1 Mile NW of Newman, NM
Section 22.3, T26S, R6E, Otero County

10. US EPA ID Number: DP-1051

A. Transporter's Phone
B. Transporter's Phone ~~505-392-4498~~
C. Facility's Phone 505-392-4898

11. Waste Shipping Name and Description	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
a. Hydrocarbon Contaminated Soils	1	Bulk	46,290	#s
b.				
c.				
d.				

Additional Descriptions for Materials Listed Above
Non-Hazardous Materials

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name: WALLER NOFF
Signature: Waller Noff
Month 9 Day 24 Year 96

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: JESUS BARRERA
Signature: Jesus Barrera
Month 9 Day 24 Year 96

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name
Signature
Month Day Year

19. Discrepancy Indication Space

Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name: George Goins
Signature: George Goins
Month 9 Day 24 Year 96

GENERATOR → TRANSPORTER → FACILITY

ORIGINAL – RETURN TO GENERATOR

№ 12411 STATE CERTIFICATE OF WEIGHTS AND MEASURES

DRIVER'S WEIGHT CERTIFICATE

NAME OF CARRIER (BEKINS MOVING & STGE.) (BEKINS VAN LINES)

OTHER CARRIER Chino

Vehicle Identification 685-685T

Name of Shipper

Origin of Shipment Destination of Shipment

77590 lbs. Gross — Gross weight of loaded vehicle, with driver only, thereon.

31300 lbs. Tare — Tare weight of vehicle, with driver only, thereon, including full gasoline tank and all necessary pads, chains, dollies, hand trucks, and other equipment.

46290 lbs. Net — Net weight of the shipment.

Signed M. Patneaude
Weighmaster

THIS FORM PRESCRIBED BY INTERSTATE COMMERCE COMMISSION
EX PARTE - MC - 19
AS AMENDED EFFECTIVE JUNE 1, 1970

The gross and tare weights were obtained at scales

NMDA APPROVED

GROSS	NAME OF SCALE OWNER	(BEKINS M & S) /	(BEKINS MOVING & STGE.)
	LOCATION	2315 S. Valley Dr. Las Cruces, N. M. /	US 70 W Alamogordo, N. M.
TARE	NAME OF SCALE OWNER	(BEKINS M & S) /	(BEKINS MOVING & STGE.)
	LOCATION	2315 S. Valley Dr. Las Cruces, N. M. /	US 70 W Alamogordo, N. M.

As shown by attached weight ticket(s) prepared by the weighmaster.

(Attach only gross weight ticket if tare weight is obtained from a weight ticket on shipments listed below.)

DRIVER ON ☐ OFF ☒

Pd 500

(LIST OF SHIPMENTS, IF ANY, ON VEHICLE AT TIME ABOVE WEIGHTS WERE OBTAINED)

SHIPPER	NET WEIGHT

I CERTIFY THE ABOVE ENTRIES ARE TRUE AND CORRECT.

DATE 9-24-96 B/L No.

(Driver's Signature)

NON-HAZARDOUS WASTE MANIFEST	1. Generator's US EPA ID No.	Manifest Document No. R01367	2. Page 1 of 1	540-113

3. Generator's Name and Mailing Address
Holloman Air Force Base
Holloman AFB, NM
49 CES/CEV

SWMU 3
SP 1

4. Generator's Phone (505) 475-5395

5. Transporter 1 Company Name	6. US EPA ID Number
Rhino Environmental Services	N/A
7. Transporter 2 Company Name	8. US EPA ID Number

9. Designated Facility Name and Site Address	10. US EPA ID Number
Rhino Environmental Services 1 Mile NW of Newman, NM Section 22.3, T26S, R6E, Otero County	DP-1051

A. Transporter's Phone
B. Transporter's Phone
C. Facility's Phone ~~505-392-4498~~ 505-392-4898

11. Waste Shipping Name and Description	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
a. Hydrocarbon Contaminated Soils	1	Bulk	50,990	#s
b.				
c.				
d.				

GENERATOR

J. Additional Descriptions for Materials Listed Above
Non-Hazardous Materials

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name	Signature	Month	Day	Year
WARREN NEFF	Warren Neff	9	24	96

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
George Goins	George Goins	9	24	96

16. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year

FAC

19. Discrepancy Indication Space

J. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name	Signature	Month	Day	Year
George Goins	George Goins	9	24	96

ORIGINAL – RETURN TO GENERATOR

№ 12409 STATE CERTIFICATE OF WEIGHTS AND MEASURES

DRIVER'S WEIGHT CERTIFICATE

NAME OF CARRIER (BEKINS MOVING & STGE.) (BEKINS VAN LINES)

OTHER CARRIER Ohio

Vehicle Identification 540-113

Name of Shipper

Origin of Shipment Destination of Shipment

83870	lbs. Gross	Gross weight of loaded vehicle, with driver only, thereon.
32380	lbs. Tare	Tare weight of vehicle, with driver only, thereon, including full gasoline tank and all necessary pads, chains, dollies, hand trucks, and other equipment.
50,990	lbs. Net	Net weight of the shipment.

THIS FORM PRESCRIBED BY INTERSTATE COMMERCE COMMISSION
EX PARTE - MC - 19
AS AMENDED EFFECTIVE JUNE 1, 1970

Signed M. Patrecande
Weighmaster

The gross and tare weights were obtained at scales NMDA APPROVED

GROSS	NAME OF SCALE OWNER	(BEKINS M & S) /	(BEKINS MOVING & STGE.)
	LOCATION	2315 S. Valley Dr. Las Cruces, N. M. /	US 70 W Alamogordo, N. M.
TARE	NAME OF SCALE OWNER	(BEKINS M & S) /	(BEKINS MOVING & STGE.)
	LOCATION	2315 S. Valley Dr. Las Cruces, N. M. /	US 70 W Alamogordo, N. M.

As shown by attached weight ticket(s) prepared by the weighmaster.

(Attach only gross weight ticket if tare weight is obtained from a weight ticket on shipments listed below.)

DRIVER ON ☐ OFF ☒

Chg 5.00

(LIST OF SHIPMENTS, IF ANY, ON VEHICLE AT TIME ABOVE WEIGHTS WERE OBTAINED)

SHIPPER	NET WEIGHT

I CERTIFY THE ABOVE ENTRIES ARE TRUE AND CORRECT.

DATE 9-24-96 B/L No.

George Gains (Driver's Signature)

NON-HAZARDOUS WASTE MANIFEST	1. Generator's US EPA ID No.	Manifest Document No. R01366	2. Page 1 of 1	530-112

3. Generator's Name and Mailing Address
Holloman Air Force Base
Holloman AFB, NM
49 CES/CEV
SWMU 3
SP 1

4. Generator's Phone (505) 475-5395

5. Transporter 1 Company Name	6. US EPA ID Number
Rhino Environmental Services	N/A
7. Transporter 2 Company Name	8. US EPA ID Number

9. Designated Facility Name and Site Address	10. US EPA ID Number
Rhino Environmental Services 1 Mile NW of Newman, NM Section 22.3, T26S, R6E, Otero County	DP-1051

A. Transporter's Phone
B. Transporter's Phone
C. Facility's Phone 505-392-4498
505-392-4898

11. Waste Shipping Name and Description	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
a. Hydrocarbon Contaminated Soils	1	Bulk	34,570	#s
b.				
c.				
d.				

GENERATOR

D. Additional Descriptions for Materials Listed Above
Non-Hazardous Materials

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name	Signature	Month	Day	Year
WARREN NEFF	Warren Neff	9	24	96

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
Dulces M Gutierrez	Dulces M Gutierrez	9	24	96

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name	Signature	Month	Day	Year
George Goins	George Goins	9	24	96

ORIGINAL – RETURN TO GENERATOR

№ 12407 STATE CERTIFICATE OF WEIGHTS AND MEASURES

DRIVER'S WEIGHT CERTIFICATE

NAME OF CARRIER (BEKINS MOVING & STGE.) (BEKINS VAN LINES)

OTHER CARRIER Rhino

Vehicle Identification 530-112

Name of Shipper

Origin of Shipment Destination of Shipment

6 12
73170
38600
34570

lbs. Gross — Gross weight of loaded vehicle, with driver only, thereon.

lbs. Tare — Tare weight of vehicle, with driver only, thereon, including full gasoline tank and all necessary pads, chains, dollies, hand trucks, and other equipment.

lbs. Net — Net weight of the shipment.

Signed M. Parneault
Weighmaster

THIS FORM PRESCRIBED BY INTERSTATE COMMERCE COMMISSION
EX PARTE - MC - 19
AS AMENDED EFFECTIVE JUNE 1, 1970

The gross and tare weights were obtained at scales

NMDA APPROVED

GROSS	NAME OF SCALE OWNER	(BEKINS M & S) /	(BEKINS MOVING & STGE.)
	LOCATION	2315 S. Valley Dr. Las Cruces, N. M. /	US 70 W Alamogordo, N. M.
TARE	NAME OF SCALE OWNER	(BEKINS M & S) /	(BEKINS MOVING & STGE.)
	LOCATION	2315 S. Valley Dr. Las Cruces, N. M. /	US 70 W Alamogordo, N. M.

As shown by attached weight ticket(s) prepared by the weighmaster.

(Attach only gross weight ticket if tare weight is obtained from a weight ticket on shipments listed below.)

DRIVER ON ☐ OFF ☒

Chg 500

(LIST OF SHIPMENTS, IF ANY, ON VEHICLE AT TIME ABOVE WEIGHTS WERE OBTAINED)

SHIPPER	NET WEIGHT

I CERTIFY THE ABOVE ENTRIES ARE TRUE AND CORRECT.

DATE 9-24-96 B/L No. Dulce Gutierrez (Driver's Signature)

NON-HAZARDOUS WASTE MANIFEST	1. Generator's US EPA ID No.	Manifest Document No. R01365	2. Page 1 of 1	685-685T

Generator's Name and Mailing Address

Holloman Air Force Base
Holloman AFB, NM
49CES/CEV

SWMU 3
SP 1

4. Generator's Phone (505) 475-5395

5. Transporter 1 Company Name	6. US EPA ID Number
Rhino Environmental Services	N/A
7. Transporter 2 Company Name	8. US EPA ID Number

9. Designated Facility Name and Site Address	10. US EPA ID Number
Rhino Environmental Services 1 Mile NW of Newman, NM Section 22.3, T26S, R6E, Otero County	DP-1051

A. Transporter's Phone
B. Transporter's Phone 505-392-4498
C. Facility's Phone 505-392-4898

11. Waste Shipping Name and Description	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
a. Hydrocarbon Contaminated Soils	1	Bulk	43,820	#s
b.				
c.				
d.				

GENERATOR

Additional Descriptions for Materials Listed Above

Non-Hazardous Materials

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name	Signature	Month	Day	Year
WARREN NEFF	Warren Neff	9	24	96

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
JESUS BARRERA	Jesus Barrera	9	24	96

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year

FACILITY

19. Discrepancy Indication Space

Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name	Signature	Month	Day	Year
George Goins	George Goins	9	24	96

12-BL-991 Rev 4/94

ORIGINAL - RETURN TO GENERATOR

№ 12406 STATE CERTIFICATE OF WEIGHTS AND MEASURES

DRIVER'S WEIGHT CERTIFICATE

NAME OF CARRIER (BEKINS MOVING & STGE.) (BEKINS VAN LINES)

OTHER CARRIER Rhino

Vehicle Identification 685 - 685-T

Name of Shipper

Origin of Shipment Destination of Shipment

75120 lbs. Gross — Gross weight of loaded vehicle, with driver only, thereon.

31300 lbs. Tare — Tare weight of vehicle, with driver only, thereon, including full gasoline tank and all necessary pads, chains, dollies, hand trucks, and other equipment.

43,820 lbs. Net — Net weight of the shipment.

Signed M. Patrenaude
Weighmaster

THIS FORM PRESCRIBED BY INTERSTATE COMMERCE COMMISSION
EX PARTE - MC - 19
AS AMENDED EFFECTIVE JUNE 1, 1970

The gross and tare weights were obtained at scales

NMDA APPROVED

GROSS	NAME OF SCALE OWNER	(BEKINS M & S) /	(BEKINS MOVING & STGE.)
	LOCATION	2315 S. Valley Dr. Las Cruces, N. M. /	US 70 W Alamogordo, N. M.
TARE	NAME OF SCALE OWNER	(BEKINS M & S) /	(BEKINS MOVING & STGE.)
	LOCATION	2315 S. Valley Dr. Las Cruces, N. M. /	US 70 W Alamogordo, N. M.

As shown by attached weight ticket(s) prepared by the weighmaster.

(Attach only gross weight ticket if tare weight is obtained from a weight ticket on shipments listed below.)

DRIVER ON ☐ OFF ☒

Chg 500

(LIST OF SHIPMENTS, IF ANY, ON VEHICLE AT TIME ABOVE WEIGHTS WERE OBTAINED)

SHIPPER	NET WEIGHT

I CERTIFY THE ABOVE ENTRIES ARE TRUE AND CORRECT.

DATE 9-24-96 B/L No.

Jesus Baum (Driver's Signature)

NON-HAZARDOUS WASTE MANIFEST	1. Generator's US EPA ID No.	Manifest Document No. R01364	2. Page 1 of 1	530-112

Generator's Name and Mailing Address

Holloman Air Force Base
Holloman AFB, NM

49 CES/CEV

SWMU 3
STOCKPILE 1

4. Generator's Phone (505) 475-5395

5. Transporter 1 Company Name	6. US EPA ID Number
Rhino Environmental Services	N/A
7. Transporter 2 Company Name	8. US EPA ID Number

9. Designated Facility Name and Site Address	10. US EPA ID Number
Rhino Environmental Services 1 Mile NW of Newman, NM Section 22.3, T26S, R6E, Otero County	DP-1051

A. Transporter's Phone
B. Transporter's Phone 505-392-4498
C. Facility's Phone 505-392-4898

11. Waste Shipping Name and Description	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
a. Hydrocarbon Contaminated Soils	1	Bulk	33,900	#s
b.				
c.				
d.				

D. Additional Descriptions for Materials Listed Above

Non-Hazardous Materials

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name	Signature	Month	Day	Year
WARREN NEFF	Warren Neff	9	23	96

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
Dulces N. Gutierrez	Dulces N. Gutierrez	9	23	96

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year

19. Discrepancy Indication Space

F. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name	Signature	Month	Day	Year
George Goins	George Goins	9	23	96

GENERATOR → TRANSPORTER → FACILITY

12-BLS-051 Rev. 4/94

ORIGINAL – RETURN TO GENERATOR

№ 12403

STATE CERTIFICATE OF WEIGHTS AND MEASURES

DRIVER'S WEIGHT CERTIFICATE

NAME OF CARRIER (BEKINS MOVING & STGE.) (BEKINS VAN LINES)

OTHER CARRIER Rhino

Vehicle Identification 530-112

Name of Shipper

Origin of Shipment

Destination of Shipment

6 11
72500
38600
33,900

lbs. Gross — Gross weight of loaded vehicle, with driver only, thereon.

lbs. Tare — Tare weight of vehicle, with driver only, thereon, including full gasoline tank and all necessary pads, chains, dollies, hand trucks, and other equipment.

lbs. Net — Net weight of the shipment.

THIS FORM PRESCRIBED BY INTERSTATE COMMERCE COMMISSION
EX PARTE - MC - 19
AS AMENDED EFFECTIVE JUNE 1, 1970

Signed M. Patrenande
Weighmaster

The gross and tare weights were obtained at scales — NMDA-APPROVED

GROSS	NAME OF SCALE OWNER	(BEKINS M & S) /	(BEKINS MOVING & STGE.)
	LOCATION	2315 S. Valley Dr. Las Cruces, N. M. /	US 70 W Alamogordo, N. M.
TARE	NAME OF SCALE OWNER	(BEKINS M & S) /	(BEKINS MOVING & STGE.)
	LOCATION	2315 S. Valley Dr. Las Cruces, N. M. /	US 70 W Alamogordo, N. M.

As shown by attached weight ticket(s) prepared by the weighmaster.

(Attach only gross weight ticket if tare weight is obtained from a weight ticket on shipments listed below.)

DRIVER ON ☐ OFF ☒

Chg 5.00

(LIST OF SHIPMENTS, IF ANY, ON VEHICLE AT TIME ABOVE WEIGHTS WERE OBTAINED)

SHIPPER	NET WEIGHT

I CERTIFY THE ABOVE ENTRIES ARE TRUE AND CORRECT.

DATE 9-23-96 B/L No.

(Driver's Signature)

(Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.

Manifest Document No. R01363

2. Page 1 of 1

685 - 685-T

Generator's Name and Mailing Address
49 CES/CEV
Holloman Air Force Base
Holloman AFB, NM

49 CES/CEV

SWMU 3 SP1

4. Generator's Phone (505) 475-5395

5. Transporter 1 Company Name: Rhino Environmental Services

6. US EPA ID Number: N/A

7. Transporter 2 Company Name

8. US EPA ID Number

9. Designated Facility Name and Site Address
Rhino Environmental Services DP-1051
1 Mile NW of Newman, NM
Section 22.3, T26S, R6E, Otero County

10. US EPA ID Number

A. Transporter's Phone
B. Transporter's Phone
C. Facility's Phone 505-392-4498
505-392-4898

11. Waste Shipping Name and Description	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
a. Hydrocarbon Contaminated Soils	1	Bulk	48,410	#s
b.				
c.				
d.				

Additional Descriptions for Materials Listed Above
Non-Hazardous Materials

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

GENERATOR

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name: WARREN NEFF
Signature: Warren Neff
Month 9 Day 23 Year 96

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: JESUS BARRENS
Signature: Jesus Barrens
Month 9 Day 23 Year 96

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name
Signature
Month Day Year

FACILITY

19. Discrepancy Indication Space

Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name: George Goins
Signature: George Goins
Month 9 Day 23 Year 96

12-BLS-C5 Rev. 4/94

ORIGINAL – RETURN TO GENERATOR

№ 12402 STATE CERTIFICATE OF WEIGHTS AND MEASURES

DRIVER'S WEIGHT CERTIFICATE

NAME OF CARRIER (BEKINS MOVING & STGE.) (BEKINS VAN LINES)

OTHER CARRIER Chino

Vehicle Identification 685- 695-T

Name of Shipper

Origin of Shipment Destination of Shipment

79710 lbs. Gross — Gross weight of loaded vehicle, with driver only, thereon.

31300 lbs. Tare — Tare weight of vehicle, with driver only, thereon, including full gasoline tank and all necessary pads, chains, dollies, hand trucks, and other equipment.

48,410 lbs. Net — Net weight of the shipment.

THIS FORM PRESCRIBED BY INTERSTATE COMMERCE COMMISSION
EX PARTE - MC - 19
AS AMENDED EFFECTIVE JUNE 1, 1970

Signed M. Portnesende
Weighmaster

The gross and tare weights were obtained at scales

NMDA APPROVED

GROSS	NAME OF SCALE OWNER	(BEKINS M & S) /	(BEKINS MOVING & STGE.)
	LOCATION	2315 S. Valley Dr. Las Cruces, N. M. /	US 70 W Alamogordo, N. M.
TARE	NAME OF SCALE OWNER	(BEKINS M & S) /	(BEKINS MOVING & STGE.)
	LOCATION	2315 S. Valley Dr. Las Cruces, N. M. /	US 70 W Alamogordo, N. M.

As shown by attached weight ticket(s) prepared by the weighmaster.

(Attach only gross weight ticket if tare weight is obtained from a weight ticket on shipments listed below.)

DRIVER ON ☐ OFF ☒

Pdg 500

(LIST OF SHIPMENTS, IF ANY, ON VEHICLE AT TIME ABOVE WEIGHTS WERE OBTAINED)

SHIPPER	NET WEIGHT

I CERTIFY THE ABOVE ENTRIES ARE TRUE AND CORRECT.

DATE 9-23-96 B/L No. Jesus Barra (Driver's Signature)

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.

Manifest Document No. R01362

2. Page 1 of 1

3. Generator's Name and Mailing Address
Holloman Air Force Base
Holloman AFB, NM
49 CES/CEV

SWMU-3
STOCKPILE 1

4. Generator's Phone (505) 475 5395

5. Transporter 1 Company Name
Rhino Environmental Services

6. US EPA ID Number
N/A

7. Transporter 2 Company Name

8. US EPA ID Number

9. Designated Facility Name and Site Address
Rhino Environmental Services
1 Mile NW of Newman, NM
Section 22.3, T26S, R6E, Otero County

10. US EPA ID Number
DP-1051

A. Transporter's Phone

B. Transporter's Phone

C. Facility's Phone 505-392-4498

505-392-4898

11. Waste Shipping Name and Description	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
a. Hydrocarbon Contaminated Soils	1	Bulk	38780	lbs
b.				
c.				
d.				

D. Additional Descriptions for Materials Listed Above
Non-Hazardous Materials

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name: WARREN NEFF
Signature: Warren Neff
Month Day Year: 10 9 23 1996

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: JESUS BARRERA
Signature: Jesus Barrera
Month Day Year: 10 9 23 1996

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name
Signature
Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name: George Goins
Signature: George Goins
Month Day Year: 10 9 23 1996

GENERATOR → TRANSPORTER → FACILITY

ORIGINAL – RETURN TO GENERATOR

№ 12397 STATE CERTIFICATE OF WEIGHTS AND MEASURES

DRIVER'S WEIGHT CERTIFICATE

NAME OF CARRIER (BEKINS MOVING & STGE.) (BEKINS VAN LINES)

OTHER CARRIER Chino

Vehicle Identification 685

Name of Shipper

Origin of Shipment Destination of Shipment

70080 lbs. Gross — Gross weight of loaded vehicle, with driver only, thereon.

31300 lbs. Tare — Tare weight of vehicle, with driver only, thereon, including full gasoline tank and all necessary pads, chains, dollies, hand trucks, and other equipment.

lbs. Net — Net weight of the shipment.

THIS FORM PRESCRIBED BY INTERSTATE COMMERCE COMMISSION
EX PARTE - MC - 19
AS AMENDED EFFECTIVE JUNE 1, 1970

Signed M. Patneaude
Weighmaster

The gross and tare weights were obtained at scales

NMDA APPROVED

GROSS	NAME OF SCALE OWNER	(BEKINS M & S) /	(BEKINS MOVING & STGE.)
	LOCATION	2315 S. Valley Dr. Las Cruces, N. M. /	US 70 W Alamogordo, N. M.
TARE	NAME OF SCALE OWNER	(BEKINS M & S) /	(BEKINS MOVING & STGE.)
	LOCATION	2315 S. Valley Dr. Las Cruces, N. M. /	US 70 W Alamogordo, N. M.

As shown by attached weight ticket(s) prepared by the weighmaster.

(Attach only gross weight ticket if tare weight is obtained from a weight ticket on shipments listed below.)

DRIVER ON ☐ OFF ☒

Chg 5.00

(LIST OF SHIPMENTS, IF ANY, ON VEHICLE AT TIME ABOVE WEIGHTS WERE OBTAINED)

SHIPPER	NET WEIGHT

I CERTIFY THE ABOVE ENTRIES ARE TRUE AND CORRECT.

DATE 9-23-96 B/L No. Jesus Baca (Driver's Signature)

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.

Manifest Document No. R01361

2. Page 1 of 1

~~960001~~ 88

Generator's Name and Mailing Address

Holloman Air Force Base
Holloman AFB, NM

49 CES/CEV

SWMU-3
STOCKPILE 1

4. Generator's Phone (505) 475-5395

5. Transporter 1 Company Name: Rhino Environmental Services

6. US EPA ID Number: N/A

7. Transporter 2 Company Name

8. US EPA ID Number

9. Designated Facility Name and Site Address

Rhino Environmental Services DP-1051
1 Mile NW of Newman, NM
Section 22.3, T26S, R6E, Otero County

10. US EPA ID Number

A. Transporter's Phone

B. Transporter's Phone

C. Facility's Phone 505-392-4498

505-392-4898

11. Waste Shipping Name and Description	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
a. Hydrocarbon Contaminated Soils	1	Bulk	34,860	#
b.				
c.				
d.				

Additional Descriptions for Materials Listed Above

Non-Hazardous Materials

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name	Signature	Month	Day	Year
WARREN NEFF	Warren Neff	09	23	96

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
Dulces N. Gutierrez	Dulces N. Gutierrez	9	23	96

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year

19. Discrepancy Indication Space

Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name	Signature	Month	Day	Year
George Goins	George Goins	9	23	96

GENERATOR

TRANSPORTER

FAC

ORIGINAL – RETURN TO GENERATOR

№ 12398

STATE CERTIFICATE OF WEIGHTS AND MEASURES

DRIVER'S WEIGHT CERTIFICATE

NAME OF CARRIER (BEKINS MOVING & STGE.) (BEKINS VAN LINES)

OTHER CARRIER Rhino

Vehicle Identification 530 - 112

Name of Shipper

Origin of Shipment

Destination of Shipment

642
73460
38600 TARE
34,860

lbs. Gross — Gross weight of loaded vehicle, with driver only, thereon.

lbs. Tare — Tare weight of vehicle, with driver only, thereon, including full gasoline tank and all necessary pads, chains, dollies, hand trucks, and other equipment.

lbs. Net — Net weight of the shipment.

Signed M. Patneaude
Weighmaster

THIS FORM PRESCRIBED BY INTERSTATE COMMERCE COMMISSION
EX PARTE - MC - 10
AS AMENDED EFFECTIVE JUNE 1, 1970

The gross and tare weights were obtained at scales

NMDA APPROVED

GROSS	NAME OF SCALE OWNER	(BEKINS M & S)	(BEKINS MOVING & STGE.)
	LOCATION	2315 S. Valley Dr. Las Cruces, N. M.	US 70 W Alamogordo, N. M. ✓
TARE	NAME OF SCALE OWNER	(BEKINS M & S)	(BEKINS MOVING & STGE.)
	LOCATION	2315 S. Valley Dr. Las Cruces, N. M.	US 70 W Alamogordo, N. M.

As shown by attached weight ticket(s) prepared by the weighmaster.

(Attach only gross weight ticket if tare weight is obtained from a weight ticket on shipments listed below.)

DRIVER ON ☐ OFF ☒

Chg 500

(LIST OF SHIPMENTS, IF ANY, ON VEHICLE AT TIME ABOVE WEIGHTS WERE OBTAINED)

SHIPPER	NET WEIGHT

I CERTIFY THE ABOVE ENTRIES ARE TRUE AND CORRECT.

DATE 9-23-96 B/L No. Victor Lutrey (Driver's Signature)

№ 12400 STATE CERTIFICATE OF WEIGHTS AND MEASURES

DRIVER'S WEIGHT CERTIFICATE

NAME OF CARRIER (BEKINS MOVING & STGE.) (BEKINS VAN LINES)

OTHER CARRIER RHINO

Vehicle Identification 530 / 112

Name of Shipper

Origin of Shipment Destination of Shipment

38 600 lbs. Gross — Gross weight of loaded vehicle, with driver only, thereon.

lbs. Tare — Tare weight of vehicle, with driver only, thereon, including full gasoline tank and all necessary pads, chains, dollies, hand trucks, and other equipment.

lbs. Net — Net weight of the shipment.

THIS FORM PRESCRIBED BY INTERSTATE COMMERCE COMMISSION
EX PARTE - MC - 19
AS AMENDED EFFECTIVE JUNE 1, 1970

Signed Juan X — Weighmaster

The gross and tare weights were obtained at scales — NMDA APPROVED

GROSS	NAME OF SCALE OWNER	(BEKINS M & S)	(BEKINS MOVING & STGE.)
	LOCATION	2315 S. Valley Dr. Las Cruces, N. M.	US 70 W Alamogordo, N. M.
TARE	NAME OF SCALE OWNER	(BEKINS M & S)	(BEKINS MOVING & STGE.)
	LOCATION	2315 S. Valley Dr. Las Cruces, N. M.	US 70 W Alamogordo, N. M.

As shown by attached weight ticket(s) prepared by the weighmaster.

(Attach only gross weight ticket if tare weight is obtained from a weight ticket on shipments listed below.)

DRIVER ON ☐ OFF ☒

(LIST OF SHIPMENTS, IF ANY, ON VEHICLE AT TIME ABOVE WEIGHTS WERE OBTAINED)

SHIPPER	NET WEIGHT

I CERTIFY THE ABOVE ENTRIES ARE TRUE AND CORRECT.

DATE 9-23-96 B/L No. (Driver's Signature)

№ 12399 STATE CERTIFICATE OF WEIGHTS AND MEASURES

DRIVER'S WEIGHT CERTIFICATE

NAME OF CARRIER (BEKINS MOVING & STGE.) (BEKINS VAN LINES)

OTHER CARRIER RHINO

Vehicle Identification 685

Name of Shipper

Origin of Shipment Destination of Shipment

31 300 lbs. Gross — Gross weight of loaded vehicle, with driver only, thereon.

lbs. Tare — Tare weight of vehicle, with driver only, thereon, including full gasoline tank and all necessary pads, chains, dollies, hand trucks, and other equipment.

lbs. Net — Net weight of the shipment.

THIS FORM PRESCRIBED BY INTERSTATE COMMERCE COMMISSION
EX PARTE - MC - 19
AS AMENDED EFFECTIVE JUNE 1, 1970

Signed Juan X — Weighmaster

The gross and tare weights were obtained at scales — NMDA APPROVED

GROSS	NAME OF SCALE OWNER	(BEKINS M & S)	(BEKINS MOVING & STGE.)
	LOCATION	2315 S. Valley Dr. Las Cruces, N. M.	US 70 W Alamogordo, N. M.
TARE	NAME OF SCALE OWNER	(BEKINS M & S)	(BEKINS MOVING & STGE.)
	LOCATION	2315 S. Valley Dr. Las Cruces, N. M.	US 70 W Alamogordo, N. M.

As shown by attached weight ticket(s) prepared by the weighmaster.

(Attach only gross weight ticket if tare weight is obtained from a weight ticket on shipments listed below.)

DRIVER ON ☐ OFF ☒

(LIST OF SHIPMENTS, IF ANY, ON VEHICLE AT TIME ABOVE WEIGHTS WERE OBTAINED)

SHIPPER	NET WEIGHT

I CERTIFY THE ABOVE ENTRIES ARE TRUE AND CORRECT.

DATE 9-23-96 B/L No. (Driver's Signature)

№ 12410 STATE CERTIFICATE OF WEIGHTS AND MEASURES

DRIVER'S WEIGHT CERTIFICATE

NAME OF CARRIER (BEKINS MOVING & STGE.) (BEKINS VAN LINES)

OTHER CARRIER

Vehicle Identification

Name of Shipper

Origin of Shipment Destination of Shipment

32 380

lbs. Gross — Gross weight of loaded vehicle, with driver only, thereon.

lbs. Tare — Tare weight of vehicle, with driver only, thereon, including full gasoline tank and all necessary pads, chains, dollies, hand trucks, and other equipment.

lbs. Net — Net weight of the shipment.

THIS FORM PRESCRIBED BY INTERSTATE COMMERCE COMMISSION
EX PARTE - MC - 19
AS AMENDED EFFECTIVE JUNE 1, 1970

Signed Weighmaster

The gross and tare weights were obtained at scales NMDA APPROVED

GROSS	NAME OF SCALE OWNER	(BEKINS M & S) /	(BEKINS MOVING & STGE.)
	LOCATION	2315 S. Valley Dr. Las Cruces, N. M. /	US 70 W Alamogordo, N. M.
TARE	NAME OF SCALE OWNER	(BEKINS M & S) /	(BEKINS MOVING & STGE.)
	LOCATION	2315 S. Valley Dr. Las Cruces, N. M. /	US 70 W Alamogordo, N. M.

As shown by attached weight ticket(s) prepared by the weighmaster.

(Attach only gross weight ticket if tare weight is obtained from a weight ticket on shipments listed below.)

DRIVER ON ☐ OFF ☒

(LIST OF SHIPMENTS, IF ANY, ON VEHICLE AT TIME ABOVE WEIGHTS WERE OBTAINED)

SHIPPER	NET WEIGHT

I CERTIFY THE ABOVE ENTRIES ARE TRUE AND CORRECT.

DATE B/L No. (Driver's Signature)

APPENDIX A

SWMU 8

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.

Manifest Document No. 0739

2. Page 1 of

Truck No 550111

3. Generator's Name and Mailing Address
Holloman Air Force Base
49 CES/CEV
Holloman AFB, NM

[redacted]
Sumu - 8

4. Generator's Phone ( ) 505-475-5305

5. Transporter 1 Company Name
Rhino Environmental Services

6. US EPA ID Number
N.A.

7. Transporter 2 Company Name

8. US EPA ID Number

9. Designated Facility Name and Site Address
Rhino Environmental Services
2 mile NW of Newman, Otero County, NM

10. US EPA ID Number
DF1051

A. Transporter's Phone
B. Transporter's Phone
C. Facility's Phone

11. Waste Shipping Name and Description	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
a. Hydrocarbon Contaminated Soils	1	BLK	16,800	
b.				
c.				
d.				

GENERATOR

Additional Descriptions for Materials Listed Above
NON-Hazardous Materials

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information
CELL M

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name	Signature	Month	Day	Year
Warren Neff	Warren Neff	4	21	97

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
[illegible] 550-111	[illegible]	4	21	97

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name	Signature	Month	Day	Year
[illegible]	[illegible]			

GENERATOR'S COPY

[illegible] Rev

N: 013210 STATE CERTIFICATE OF WEIGHTS AND MEASURES

DRIVER'S WEIGHT CERTIFICATE

NAME OF CARRIER (BEKINS MOVING & STGE.) (BEKINS VAN LINES)

OTHER CARRIER Rhino

Vehicle Identification 550-111

Name of Shipper

Origin of Shipment Destination of Shipment

69530

JKGP

lbs. Gross — Gross weight of loaded vehicle, with driver only, thereon.

lbs. Tare — Tare weight of vehicle, with driver only, thereon, including full gasoline tank and all necessary pads, chains, dollies, hand trucks, and other equipment.

lbs. Net — Net weight of the shipment.

THIS FORM PRESCRIBED BY INTERSTATE COMMERCE COMMISSION
EX PARTE - MC - 19
AS AMENDED EFFECTIVE JUNE 1, 1970

Signed M. Patrucade
Weighmaster

The gross and tare weights were obtained at scales

NMDA APPROVED

GROSS	NAME OF SCALE OWNER	(BEKINS M & S)	(BEKINS MOVING & STGE.)
	LOCATION	2315 S. Valley Dr. Las Cruces, N. M.	US 70 W Alamogordo, N. M. ✓
TARE	NAME OF SCALE OWNER	(BEKINS M & S)	(BEKINS MOVING & STGE.)
	LOCATION	2315 S. Valley Dr. Las Cruces, N. M.	US 70 W Alamogordo, N. M.

As shown by attached weight ticket(s) prepared by the weighmaster.

(Attach only gross weight ticket if tare weight is obtained from a weight ticket on shipments listed below.)

DRIVER ON ☐ OFF ☒

Chg 500

(LIST OF SHIPMENTS, IF ANY, ON VEHICLE AT TIME ABOVE WEIGHTS WERE OBTAINED)

SHIPPER	NET WEIGHT

I CERTIFY THE ABOVE ENTRIES ARE TRUE AND CORRECT.

DATE 4-24-97 B/L No.

Michael (Driver's Signature)

N: 013193 STATE CERTIFICATE OF WEIGHTS AND MEASURES

DRIVER'S WEIGHT CERTIFICATE

NAME OF CARRIER (BEKINS MOVING & STGE.) (BEKINS VAN LINES)

OTHER CARRIER Rhino

Vehicle Identification 550-111

Name of Shipper

Origin of Shipment Destination of Shipment

32730

lbs. Gross — Gross weight of loaded vehicle, with driver only, thereon.

lbs. Tare — Tare weight of vehicle, with driver only, thereon, including full gasoline tank and all necessary pads, chains, dollies, hand trucks, and other equipment.

lbs. Net — Net weight of the shipment.

THIS FORM PRESCRIBED BY INTERSTATE COMMERCE COMMISSION
EX PARTE - MC - 19
AS AMENDED EFFECTIVE JUNE 1, 1970

Signed M. Patrucade
Weighmaster

The gross and tare weights were obtained at scales

NMDA APPROVED

GROSS	NAME OF SCALE OWNER	(BEKINS M & S)	(BEKINS MOVING & STGE.)
	LOCATION	2315 S. Valley Dr. Las Cruces, N. M.	US 70 W Alamogordo, N. M.
TARE	NAME OF SCALE OWNER	(BEKINS M & S)	(BEKINS MOVING & STGE.)
	LOCATION	2315 S. Valley Dr. Las Cruces, N. M.	US 70 W Alamogordo, N. M. ✓

As shown by attached weight ticket(s) prepared by the weighmaster.

(Attach only gross weight ticket if tare weight is obtained from a weight ticket on shipments listed below.)

DRIVER ON ☐ OFF ☒

Chg 500

(LIST OF SHIPMENTS, IF ANY, ON VEHICLE AT TIME ABOVE WEIGHTS WERE OBTAINED)

SHIPPER	NET WEIGHT

I CERTIFY THE ABOVE ENTRIES ARE TRUE AND CORRECT.

DATE 4-21-97 B/L No.

(Driver's Signature)

[redacted]

NON-HAZARDOUS WASTE MANIFEST	1. Generator's US EPA ID No.	Manifest Document No. 05-10	2. Page 1 of	Truck #K SS0111
3. Generator's Name and Mailing Address: Holloman Air Force Base, 49 CES/CEV, Holloman AFB, NM				Scum 8
4. Generator's Phone ( ) 505-475-5395				
5. Transporter 1 Company Name: Rhino Environmental Services	6. US EPA ID Number: N/A			
7. Transporter 2 Company Name	8. US EPA ID Number			
9. Designated Facility Name and Site Address: Rhino Environmental Services, 2 mile NW of Newman, Otero County, NM	10. US EPA ID Number: DP1051		A. Transporter's Phone B. Transporter's Phone C. Facility's Phone	

11. Waste Shipping Name and Description	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
a. Hydrocarbon Contaminated Soils	1	BULK	48830	
b.				
c.				
d.				

D. Additional Descriptions for Materials Listed Above	E. Handling Codes for Wastes Listed Above
NON-Hazardous Materials	

15. Special Handling Instructions and Additional Information

CELL M

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name	Signature	Month	Day	Year
WARREN NEFF	Warren Neff	4	21	97

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
Michael Sullano SS0-111	Michael	4	21	97

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year

19. Discrepancy Indication Space

Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name	Signature	Month	Day	Year
[illegible]	[illegible]			

GENERATOR

TRANSPORTER

FACILITY

[redacted]

GENERATOR'S COPY

[redacted]

N: 013208 STATE CERTIFICATE OF WEIGHTS AND MEASURES

DRIVER'S WEIGHT CERTIFICATE

NAME OF CARRIER (BEKINS MOVING & STGE.) (BEKINS VAN LINES)

OTHER CARRIER Rhino

Vehicle Identification 550-111

Name of Shipper

Origin of Shipment Destination of Shipment

1560

lbs. Gross — Gross weight of loaded vehicle, with driver only, thereon.

lbs. Tare — Tare weight of vehicle, with driver only, thereon, including full gasoline tank and all necessary pads, chains, dollies, hand trucks, and other equipment.

lbs. Net — Net weight of the shipment.

THIS FORM PRESCRIBED BY INTERSTATE COMMERCE COMMISSION
EX PARTE - MC - 19
AS AMENDED EFFECTIVE JUNE 1, 1970

Signed M. Patenaude
Weighmaster

The gross and tare weights were obtained at scales

NMDA APPROVED

GROSS	NAME OF SCALE OWNER	(BEKINS M & S) /	(BEKINS MOVING & STGE.)
	LOCATION	2315 S. Valley Dr. Las Cruces, N. M. /	US 70 W Alamogordo, N. M. ✓
TARE	NAME OF SCALE OWNER	(BEKINS M & S) /	(BEKINS MOVING & STGE.)
	LOCATION	2315 S. Valley Dr. Las Cruces, N. M. /	US 70 W Alamogordo, N. M.

As shown by attached weight ticket(s) prepared by the weighmaster.

(Attach only gross weight ticket if tare weight is obtained from a weight ticket on shipments listed below.)

DRIVER ON ☐ OFF ☒

Chg 500

(LIST OF SHIPMENTS, IF ANY, ON VEHICLE AT TIME ABOVE WEIGHTS WERE OBTAINED)

SHIPPER	NET WEIGHT

I CERTIFY THE ABOVE ENTRIES ARE TRUE AND CORRECT.

DATE 4-20-97 B/L No.

(Driver's Signature)

APPENDIX A

SWMU 123

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.

Manifest Document No. 0541

2. Page 1 of 1

Truck No. #550 111

3. Generator's Name and Mailing Address
Holloman Air Force Base
49 CES/CEV
Holloman AFB, NM

Sample 123

4. Generator's Phone ( ) 505-475-5705

5. Transporter 1 Company Name
Rhino Environmental Services

6. US EPA ID Number
N/A

7. Transporter 2 Company Name

8. US EPA ID Number

9. Designated Facility Name and Site Address
Rhino Environmental Services
2 mile NW of Newman, Otero County, NM

10. US EPA ID Number
DP1051

A. Transporter's Phone 505-525-6464
B. Transporter's Phone
C. Facility's Phone 44-0932

11. Waste Shipping Name and Description	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
a. Hydrocarbon contaminated Soils	1	B	1/4 YD	
b.				
c.				
d.				

D. Additional Descriptions for Materials Listed Above
NON- Hazardous Materials

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information
TELL M

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name: MICHAEL A. JACOBS
Signature: Michael A. Jacobs
Month Day Year: 19 29 97

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: SALVADO 550111
Signature:
Month Day Year: 19 29 97

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name
Signature
Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name
Signature
Month Day Year

GENERATOR

TRANSPORTER

FACILITY

GENERATOR'S COPY

№ 6523 STATE CERTIFICATE OF WEIGHTS AND MEASURES

DRIVER'S WEIGHT CERTIFICATE

NAME OF CARRIER (BEKINS MOVING & STGE.) (BEKINS VAN LINES)

OTHER CARRIER Rhino

Vehicle Identification 550-111

Name of Shipper

Origin of Shipment Destination of Shipment

97250 lbs. Gross — Gross weight of loaded vehicle, with driver only, thereon.

lbs. Tare — Tare weight of vehicle, with driver only, thereon, including full gasoline tank and all necessary pads, chains, dollies, hand trucks, and other equipment.

lbs. Net — Net weight of the shipment.

THIS FORM PRESCRIBED BY INTERSTATE COMMERCE COMMISSION
EX PARTE MC - 19
AS AMENDED EFFECTIVE JUNE 1, 1970

Signed M. Patrauds
Weighmaster

The gross and tare weights were obtained at scales

NMDA APPROVED

GROSS	NAME OF SCALE OWNER	(BEKINS M & S)	(BEKINS MOVING & STGE.)
	LOCATION	2315 S. Valley Dr. Las Cruces, N. M.	US 70 W Alamogordo, N. M. ✓
TARE	NAME OF SCALE OWNER	(BEKINS M & S)	(BEKINS MOVING & STGE.)
	LOCATION	2315 S. Valley Dr. Las Cruces, N. M.	US 70 W Alamogordo, N. M.

As shown by attached weight ticket(s) prepared by the weighmaster.

(Attach only gross weight ticket if tare weight is obtained from a weight ticket on shipments listed below.)

DRIVER ON ☐ OFF ☒ Chg 5.00

(LIST OF SHIPMENTS, IF ANY, ON VEHICLE AT TIME ABOVE WEIGHTS WERE OBTAINED)

SHIPPER	NET WEIGHT

I CERTIFY THE ABOVE ENTRIES ARE TRUE AND CORRECT.

DATE 4-29-97 B/L No. (Driver's Signature)

№ 6528 STATE CERTIFICATE OF WEIGHTS AND MEASURES

DRIVER'S WEIGHT CERTIFICATE

NAME OF CARRIER (BEKINS MOVING & STGE.) (BEKINS VAN LINES)

OTHER CARRIER Rhino

Vehicle Identification 550-111

Name of Shipper

Origin of Shipment Destination of Shipment

32320 lbs. Gross — Gross weight of loaded vehicle, with driver only, thereon.

lbs. Tare — Tare weight of vehicle, with driver only, thereon, including full gasoline tank and all necessary pads, chains, dollies, hand trucks, and other equipment.

lbs. Net — Net weight of the shipment.

THIS FORM PRESCRIBED BY INTERSTATE COMMERCE COMMISSION
EX PARTE MC - 19
AS AMENDED EFFECTIVE JUNE 1, 1970

Signed M. Patrauds
Weighmaster

The gross and tare weights were obtained at scales

NMDA APPROVED

GROSS	NAME OF SCALE OWNER	(BEKINS M & S)	(BEKINS MOVING & STGE.)
	LOCATION	2315 S. Valley Dr. Las Cruces, N. M.	US 70 W Alamogordo, N. M.
TARE	NAME OF SCALE OWNER	(BEKINS M & S)	(BEKINS MOVING & STGE.)
	LOCATION	2315 S. Valley Dr. Las Cruces, N. M.	US 70 W Alamogordo, N. M. ✓

As shown by attached weight ticket(s) prepared by the weighmaster.

(Attach only gross weight ticket if tare weight is obtained from a weight ticket on shipments listed below.)

DRIVER ON ☐ OFF ☒ Chg

(LIST OF SHIPMENTS, IF ANY, ON VEHICLE AT TIME ABOVE WEIGHTS WERE OBTAINED)

SHIPPER	NET WEIGHT

I CERTIFY THE ABOVE ENTRIES ARE TRUE AND CORRECT.

DATE 4-29-97 B/L No. (Driver's Signature)

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.

Manifest Document No. 0543

2. Page 1 of 1

Truck NM 350111

3. Generator's Name and Mailing Address
Holloman Air Force Base
49 CES/CEV
Holloman AFB, NM

4. Generator's Phone ( ) 505-475-5565

5. Transporter 1 Company Name
Rhino Environmental Services

6. US EPA ID Number
N/A

7. Transporter 2 Company Name

8. US EPA ID Number

9. Designated Facility Name and Site Address
Rhino Environmental Services
2 miles S/W of Newman, Otero County, NM

10. US EPA ID Number
NM1051

A. Transporter's Phone

B. Transporter's Phone

C. Facility's Phone 1-09-32

11. Waste Shipping Name and Description

	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
a. Hydrocarbon contaminated Soils	1	CB	45/100	
b.				
c.				
d.				

D. Additional Descriptions for Materials Listed Above
Non-Hazardous Materials

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information
CELL M

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Materials.

Printed/Typed Name: MICHAEL A. JACOBS
Signature: Michael A. Jacobs
Month 4 Day 30 Year 97

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: [illegible] 350111
Signature: [illegible]
Month 4 Day 30 Year 97

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name
Signature
Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name
Signature
Month Day Year

GENERATOR

TRANSPORTER

FACILITY

GENERATOR'S COPY

№ 013226 STATE CERTIFICATE OF WEIGHTS AND MEASURES

DRIVER'S WEIGHT CERTIFICATE

NAME OF CARRIER (BEKINS MOVING & STGE.) (BEKINS VAN LINES)

OTHER CARRIER RHINO

Vehicle Identification 550/111

Name of Shipper

Origin of Shipment Destination of Shipment

7/720 lbs. Gross — Gross weight of loaded vehicle, with driver only, thereon.

lbs. Tare — Tare weight of vehicle, with driver only thereon, including full gasoline tank, and all necessary pads, chains, dollies, hand trucks, and other equipment.

lbs. Net — Net weight of the shipment.

THIS FORM PRESCRIBED BY INTERSTATE COMMERCE COMMISSION EX PARTE MC-11 IS AS AMENDED EFFECTIVE JUNE 1, 1970

Signed Weighmaster

The gross and tare weights were obtained at scales

NMDA APPROVED

GROSS	NAME OF SCALE OWNER	(BEKINS M & S)	(BEKINS MOVING & STGE.)
	LOCATION	2315 S. Valley Dr. Las Cruces, N. M.	US 70 W Alamogordo, N. M.
TARE	NAME OF SCALE OWNER	(BEKINS M & S)	(BEKINS MOVING & STGE.)
	LOCATION	2315 S. Valley Dr. Las Cruces, N. M.	US 70 W Alamogordo, N. M.

As shown by attached weight ticket(s) prepared by the weighmaster.

(Attach only gross weight ticket if tare weight is obtained from a weight ticket on shipments listed below.)

DRIVER ON ☐ OFF ☒

(LIST OF SHIPMENTS, IF ANY, ON VEHICLE AT TIME ABOVE WEIGHTS WERE OBTAINED)

SHIPPER	NET WEIGHT

I CERTIFY THE ABOVE ENTRIES ARE TRUE AND CORRECT

DATE 4-30-97 B/L No. (Driver's Signature)

Please print or type. Form designed for use on elite (12-pitch) typewriter.

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.

Manifest Document No. 0343

2. Page 1 of 1

Truck No. 55-111

Generator's Name and Mailing Address: Holloman Air Force Base, 49 CES CEV, Holloman AFB, NM

Sampu 123

4. Generator's Phone ( ) 505-475-5303

5. Transporter 1 Company Name: Rhino Environmental Services

6. US EPA ID Number: N/A

7. Transporter 2 Company Name

8. US EPA ID Number

9. Designated Facility Name and Site Address: Rhino Environmental Services, 7 miles NW of Newman, Otero County, NM

10. US EPA ID Number: DP1051

A. Transporter 1 Phone

B. Transporter 2 Phone

C. Facility Phone 444-0932

GENERATOR

11. Waste Shipping Name and Description	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
a. Hydrocarbon Contaminated Soils	1	Bulk	4/4/20	
b.				
c.				
d.				

D. Additional Descriptions for Materials Listed Above: NON Hazardous Materials

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information: TELL M

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name: MICHAEL A. JACOBS — Signature: Michael A. Jacobs — Month 4 Day 30 Year 97

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: Michael Sandoval 55-111 — Signature: Michael — Month 4 Day 30 Year 97

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name — Signature — Month Day Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name — Signature — Month Day Year

GENERATOR'S COPY

N. 013238 STATE CERTIFICATE OF WEIGHTS AND MEASURES

DRIVER'S WEIGHT CERTIFICATE

NAME OF CARRIER (BEKINS MOVING & STGE.) (BEKINS VAN LINES)

OTHER CARRIER Rhino

Vehicle Identification 550-111

Name of Shipper

Origin of Shipment Destination of Shipment

73940 lbs. Gross — Gross weight of loaded vehicle, with driver only, thereon.

lbs. Tare — Tare weight of vehicle, with driver only thereon, including full gasoline tank and all necessary pads, chains, dollies, hand trucks, and other equipment.

lbs. Net — Net weight of the shipment.

THIS FORM PRESCRIBED BY INTERSTATE COMMERCE COMMISSION EX PARTE 5 MC-1 AS AMENDED EFFECTIVE JUNE 1, 1957

Signed M. Patterson Weighmaster

The gross and tare weights were obtained at scales NMDA APPROVED

GROSS	NAME OF SCALE OWNER	(BEKINS M & S)	(BEKINS MOVING & STGE.)
	LOCATION	2315 S. Valley Dr. Las Cruces, N. M.	US 70 W. Alamogordo, N. M.
TARE	NAME OF SCALE OWNER	(BEKINS M & S)	(BEKINS MOVING & STGE.)
	LOCATION	2315 S. Valley Dr. Las Cruces, N. M.	US 70 W. Alamogordo, N. M.

As shown by attached weight ticket(s) prepared by the weighmaster.

(Attach only gross weight ticket if tare weight is obtained from a weight ticket on shipments listed below.)

DRIVER ON ☐ OFF ☒

8/19 3:00

(LIST OF SHIPMENTS, IF ANY, ON VEHICLE AT TIME ABOVE WEIGHTS WERE OBTAINED)

SHIPPER	NET WEIGHT

I CERTIFY THE ABOVE ENTRIES ARE TRUE AND CORRECT

DATE 4-30-90 B/L No. (Driver's Signature)

Please print or type.
(Form designed for use on elite (12-pitch) typewriter.)

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.

Manifest Document No.

2. Page 1 of

Generator's Name and Mailing Address

4. Generator's Phone ( )

5. Transporter 1 Company Name

6. US EPA ID Number

7. Transporter 2 Company Name

8. US EPA ID Number

9. Designated Facility Name and Site Address

10. US EPA ID Number

A. Transporter's Phone

B. Transporter's Phone

C. Facility's Phone

11. Waste Shipping Name and Description	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
a.	1	BULK	43,700	
b.				
c.				
d.				

Additional Descriptions for Materials Listed Above

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name: WARREN NEFF

Signature

Month 4 Day Year

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

19. Discrepancy Indication Space

Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name

Signature

Month Day Year

GENERATOR

TRANSPORTER

FACILITY

12-BLS-C5 Rev. 4/94

GENERATOR'S COPY

N: 013204 STATE CERTIFICATE OF WEIGHTS AND MEASURES

DRIVER'S WEIGHT CERTIFICATE

NAME OF CARRIER (BEKINS MOVING & STGE.) (BEKINS VAN LINES)

OTHER CARRIER RHINO

Vehicle Identification 550/111

Name of Shipper

Origin of Shipment Destination of Shipment

76430

lbs. Gross — Gross weight of loaded vehicle, with driver only, thereon.

lbs. Tare — Tare weight of vehicle, with driver only, thereon, including full gasoline tank and all necessary pads, chains, dollies, hand trucks, and other equipment.

lbs. Net — Net weight of the shipment.

Signed _____ Weighmaster

THIS FORM PRESCRIBED BY INTERSTATE COMMERCE COMMISSION
EX PARTE - MC - 19
AS AMENDED EFFECTIVE JUNE 1, 1970

The gross and tare weights were obtained at scales

NMDA APPROVED

GROSS	NAME OF SCALE OWNER	(BEKINS M & S)	(BEKINS MOVING & STGE.)
	LOCATION	2315 S. Valley Dr. Las Cruces, N. M.	US 70 W Alamogordo, N. M.
TARE	NAME OF SCALE OWNER	(BEKINS M & S)	(BEKINS MOVING & STGE.)
	LOCATION	2315 S. Valley Dr. Las Cruces, N. M.	US 70 W Alamogordo, N. M.

As shown by attached weight ticket(s) prepared by the weighmaster.

(Attach only gross weight ticket if tare weight is obtained from a weight ticket on shipments listed below.)

DRIVER ON ☐ OFF ☒

(LIST OF SHIPMENTS, IF ANY, ON VEHICLE AT TIME ABOVE WEIGHTS WERE OBTAINED)

SHIPPER	NET WEIGHT

I CERTIFY THE ABOVE ENTRIES ARE TRUE AND CORRECT.

DATE 4-24-97 B/L No. _____ (Driver's Signature)

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.

Manifest Document No. 8337

2. Page 1 of 1

Generator's Name and Mailing Address
49 CES CEV
Holloman AFB, NM

4. Generator's Phone ( ) 505-475-5795

5. Transporter 1 Company Name: Rhino Environmental Services

6. US EPA ID Number: NA

7. Transporter 2 Company Name

8. US EPA ID Number

9. Designated Facility Name and Site Address: Rhino Environmental Services
2 miles NW of Newman, Otero County, NM

10. US EPA ID Number: DP[illegible]

A. Transporter's Phone

B. Transporter's Phone

C. Facility's Phone

11. Waste Shipping Name and Description	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
a. Hydrocarbon Contaminated Soils	1	DT	43320	
b.				
c.				
d.				

Additional Descriptions for Materials Listed Above
NON Hazardous Materials

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information
TEL M

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name: WARREN NEFF | Signature | Month 7 | Day 23 | Year 97

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: MICHAEL SIRAND ASSOC III | Signature | Month 7 | Day 23 | Year 97

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name | Signature | Month | Day | Year

19. Discrepancy Indication Space

Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name: JERRY DUDDAS | Signature | Month | Day | Year

GENERATOR

TRANSPORTER

FACILITY

GENERATOR'S COPY

N: 013200 STATE CERTIFICATE OF WEIGHTS AND MEASURES

DRIVER'S WEIGHT CERTIFICATE

NAME OF CARRIER (BEKINS MOVING & STGE.) (BEKINS VAN LINES)

OTHER CARRIER Chino

Vehicle Identification 550-111

Name of Shipper

Origin of Shipment Destination of Shipment

75 360 lbs. Gross — Gross weight of loaded vehicle, with driver only, thereon.

lbs. Tare — Tare weight of vehicle, with driver only, thereon, including full gasoline tank and all necessary pads, chains, dollies, hand trucks, and other equipment.

lbs. Net — Net weight of the shipment.

Signed M. Patneaude
Weighmaster

THIS FORM PRESCRIBED BY INTERSTATE COMMERCE COMMISSION
EX PARTE - MC - 19
AS AMENDED EFFECTIVE JUNE 1, 1970

The gross and tare weights were obtained at scales

NMDA APPROVED

GROSS	NAME OF SCALE OWNER	(BEKINS M & S)	(BEKINS MOVING & STGE.)
	LOCATION	2315 S. Valley Dr. Las Cruces, N. M.	US 70 W Alamogordo, N. M.
TARE	NAME OF SCALE OWNER	(BEKINS M & S)	(BEKINS MOVING & STGE.)
	LOCATION	2315 S. Valley Dr. Las Cruces, N. M.	US 70 W Alamogordo, N. M.

As shown by attached weight ticket(s) prepared by the weighmaster.

(Attach only gross weight ticket if tare weight is obtained from a weight ticket on shipments listed below.)

DRIVER ON ☐ OFF ☒ Chg 500

(LIST OF SHIPMENTS, IF ANY, ON VEHICLE AT TIME ABOVE WEIGHTS WERE OBTAINED)

SHIPPER	NET WEIGHT

I CERTIFY THE ABOVE ENTRIES ARE TRUE AND CORRECT.

DATE 4-23-91 B/L No. (Driver's Signature)

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.

Manifest Document No. 0036

2. Page 1 of

3. Generator's Name and Mailing Address: Holloman Air Force Base, 49 CES/CEV, Holloman AFB, NM

4. Generator's Phone ( ) 505-875-3305

5. Transporter 1 Company Name: Rhino Environmental Services

6. US EPA ID Number: N/A

7. Transporter 2 Company Name:

8. US EPA ID Number:

9. Designated Facility Name and Site Address: Rhino Environmental Services, 2 mile NW of Newman, Otero County, NM

10. US EPA ID Number: DP1051

A. Transporter's Phone

B. Transporter's Phone

C. Facility's Phone

11. Waste Shipping Name and Description	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt/Vol
a. Hydrocarbon Contaminated Soils			~~43,020~~ 40,290	
b.				
c.				
d.				

D. Additional Descriptions for Materials Listed Above: NON-Hazardous Material

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information: CELL M

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste

Printed/Typed Name: WARREN NEFF | Signature: Warren Neff | Month 03 Day 23 Year 97

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: Michael Williamson III | Signature: Michael Williamson | Month 3 Day 23 Year 97

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name | Signature | Month | Day | Year

19. Discrepancy Indication Space

Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name: Larry Dunhay | Signature | Month | Day | Year

GENERATOR — TRANSPORTER — FACILITY

12-BLS-C5 Rev. 4/94

GENERATOR'S COPY

N: 013204 STATE CERTIFICATE OF WEIGHTS AND MEASURES

DRIVER'S WEIGHT CERTIFICATE

NAME OF CARRIER (BEKINS MOVING & STGE.) (BEKINS VAN LINES)

OTHER CARRIER RHINO

Vehicle Identification 550/111

Name of Shipper

Origin of Shipment Destination of Shipment

6430 lbs. Gross — Gross weight of loaded vehicle, with driver only, thereon.

lbs. Tare — Tare weight of vehicle, with driver only, thereon, including full gasoline tank and all necessary pads, chains, dollies, hand trucks, and other equipment.

lbs. Net — Net weight of the shipment.

Signed [signature] Weighmaster

THIS FORM PRESCRIBED BY INTERSTATE COMMERCE COMMISSION
EX PARTE - MC - 19
AS AMENDED EFFECTIVE JUNE 1, 1970

The gross and tare weights were obtained at scales

NMDA APPR[illegible]

GROSS	NAME OF SCALE OWNER	(BEKINS M & S)	(BEKINS MOVING & STGE.)
	LOCATION	2315 S. Valley Dr. Las Cruces, N. M.	US 70 W Alamogordo, N. M.
TARE	NAME OF SCALE OWNER	(BEKINS M & S)	(BEKINS MOVING & STGE.)
	LOCATION	2315 S. Valley Dr. Las Cruces, N. M.	US 70 W Alamogordo, N. M.

As shown by attached weight ticket(s) prepared by the weighmaster.

(Attach only gross weight ticket if tare weight is obtained from a weight ticket on shipments listed below.)

DRIVER ON ☐ OFF ☒

(LIST OF SHIPMENTS, IF ANY, ON VEHICLE AT TIME ABOVE WEIGHTS WERE OBTAINED)

SHIPPER	NET WEIGHT

I CERTIFY THE ABOVE ENTRIES ARE TRUE AND CORRECT.

DATE 4-24-97 B/L No. [signature] (Driver's Signature)

N: 013199 STATE CERTIFICATE OF WEIGHTS AND MEASURES

DRIVER'S WEIGHT CERTIFICATE

NAME OF CARRIER (BEKINS MOVING & STGE.) (BEKINS VAN LINES)

OTHER CARRIER RHINO

Vehicle Identification 550/111

Name of Shipper

Origin of Shipment Destination of Shipment

73020 lbs. Gross — Gross weight of loaded vehicle, with driver only, thereon.

lbs. Tare — Tare weight of vehicle, with driver only, thereon, including full gasoline tank and all necessary pads, chains, dollies, hand trucks, and other equipment.

lbs. Net — Net weight of the shipment.

Signed [signature] Weighmaster

THIS FORM PRESCRIBED BY INTERSTATE COMMERCE COMMISSION
EX PARTE - MC - 19
AS AMENDED EFFECTIVE JUNE 1, 1970

The gross and tare weights were obtained at scales

NMDA APPROVED

GROSS	NAME OF SCALE OWNER	(BEKINS M & S)	(BEKINS MOVING & STGE.)
	LOCATION	2315 S. Valley Dr. Las Cruces, N. M.	US 70 W Alamogordo, N. M.
TARE	NAME OF SCALE OWNER	(BEKINS M & S)	(BEKINS MOVING & STGE.)
	LOCATION	2315 S. Valley Dr. Las Cruces, N. M.	US 70 W Alamogordo, N. M.

As shown by attached weight ticket(s) prepared by the weighmaster.

(Attach only gross weight ticket if tare weight is obtained from a weight ticket on shipments listed below.)

DRIVER ON ☐ OFF ☒

(LIST OF SHIPMENTS, IF ANY, ON VEHICLE AT TIME ABOVE WEIGHTS WERE OBTAINED)

SHIPPER	NET WEIGHT

I CERTIFY THE ABOVE ENTRIES ARE TRUE AND CORRECT.

DATE 4-23-97 B/L No. [signature] (Driver's Signature)

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.

Manifest Document No. 0540

2. Page 1 of

Truck No 550111

3. Generator's Name and Mailing Address
Holloman Air Force Base
49 CES/CEV
Holloman AFB, NM

Sumu 123

4. Generator's Phone ( ) 505-475-5305

5. Transporter 1 Company Name
Rhino Environmental Services

6. US EPA ID Number

7. Transporter 2 Company Name

8. US EPA ID Number

9. Designated Facility Name and Site Address
Rhino Environmental Services
2 mile NW of Newman, Otero County, NM

10. US EPA ID Number
DP1051

A. Transporter's Phone
B. Transporter's Phone
C. Facility's Phone

11. Waste Shipping Name and Description	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
a. Hydrocarbon Contaminated Soils	1	BULK	4520	
b.				
c.				
d.				

GENERATOR

D. Additional Descriptions for Materials Listed Above
NON-Hazardous Materials

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information
CELL M

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name: Michael A Jacobs
Signature: Michael A Jacobs
Month Day Year: 4 29 97

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Michael A Hassolis
Signature: Michael Sumu
Month Day Year: 4 29 97

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name
Signature
Month Day Year

FA

19. Discrepancy Indication Space

Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name
Signature
Month Day Year

2-BLSH-C5 Rev. 4/94

GENERATOR'S COPY

No. 013220 STATE CERTIFICATE OF WEIGHTS AND MEASURES

DRIVER'S WEIGHT CERTIFICATE

NAME OF CARRIER (BEKINS MOVING & STGE.) (BEKINS VAN LINES)

OTHER CARRIER RHINO

Vehicle Identification 550/111

Name of Shipper

Origin of Shipment Destination of Shipment

77840 lbs. Gross — Gross weight of loaded vehicle, with driver only, thereon.

lbs. Tare — Tare weight of vehicle, with driver only thereon, including full gasoline tank and all necessary pads, chains, dollies, hand trucks, and other equipment.

lbs. Net — Net weight of the shipment.

Signed Weighmaster

THIS FORM PRESCRIBED BY INTERSTATE COMMERCE COMMISSION
EX PARTE - MC - 19
AS AMENDED EFFECTIVE JUNE 1, 1970

The gross and tare weights were obtained at scales NMDA APPROVED

GROSS	NAME OF SCALE OWNER	(BEKINS M & S)	(BEKINS MOVING & STGE.)
	LOCATION	2315 S. Valley Dr. Las Cruces, N. M.	US 70 W Alamogordo, N. M.
TARE	NAME OF SCALE OWNER	(BEKINS M & S)	(BEKINS MOVING & STGE.)
	LOCATION	2315 S. Valley Dr. Las Cruces, N. M.	US 70 W Alamogordo, N. M.

As shown by attached weight ticket(s) prepared by the weighmaster.

(Attach only gross weight ticket if tare weight is obtained from a weight ticket on shipments listed below.)

DRIVER ON ☐ OFF ☒

(LIST OF SHIPMENTS, IF ANY, ON VEHICLE AT TIME ABOVE WEIGHTS WERE OBTAINED)

SHIPPER	NET WEIGHT

I CERTIFY THE ABOVE ENTRIES ARE TRUE AND CORRECT.

DATE 4-29-97 B/L No. (Driver's Sign)

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.

Manifest Document No.

2. Page 1 of 1

Truck # 550-11

3. Generator's Name and Mailing Address

Holloman Air Force Base
49 CES/CEV
Holloman AFB, NM

4. Generator's Phone ( ) 505-475-5705

5. Transporter 1 Company Name: Rinco Environmental Services

6. US EPA ID Number: N/A

7. Transporter 2 Company Name

8. US EPA ID Number

9. Designated Facility Name and Site Address: Rinco Environmental Services, 2 mile NW of Newman, Otero County, NM

10. US EPA ID Number: DF1051

A. Transporter's Phone

B. Transporter's Phone

C. Facility's Phone

11. Waste Shipping Name and Description	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
a. Hydrocarbon Contaminated Soils	1	BYK	47890	
b.				
c.				
d.				

J. Additional Descriptions for Materials Listed Above: Hazardous Materials

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

H.G. M

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name: MICHAEL A. JACOBS | Signature: Michael A. Jacobs | Month 4 Day 29 Year 97

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: [illegible] Service #550-11 | Signature: [illegible] | Month [illegible] Day [illegible] Year [illegible]

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name | Signature | Month | Day | Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name | Signature | Month | Day | Year

GENERATOR'S COPY

No. 013223

STATE CERTIFICATE OF WEIGHTS AND MEASURES

DRIVER'S WEIGHT CERTIFICATE

Name of Carrier (BEKINS MOVING & STGE.) (BEKINS VAN LINES)

Other Carrier Rhino

Vehicle Identification 550-111

Name of Shipper

Origin of Shipment

Destination of Shipment

80210

lbs. Gross Gross weight of loaded vehicle, with driver only, thereon.

lbs. Tare Tare weight of vehicle, with driver only, thereon, including full gasoline tank and all necessary pads, chains, dollies, hand trucks, and other equipment.

lbs. Net Net weight of the shipment.

Signed M. Patrucade
Weighmaster

THIS FORM PRESCRIBED BY INTERSTATE COMMERCE COMMISSION
EX PARTE - MC - 19
AS AMENDED EFFECTIVE JUNE 1, 1970

The gross and tare weights were obtained at scales

NMDA APPROVED

GROSS	NAME OF SCALE OWNER	(BEKINS M & S)	(BEKINS MOVING & STGE.)
	LOCATION	2315 S. Valley Dr. Las Cruces, N. M.	US 70 W Alamogordo, N. M.
TARE	NAME OF SCALE OWNER	(BEKINS M & S)	(BEKINS MOVING & STGE.)
	LOCATION	2315 S. Valley Dr. Las Cruces, N. M.	US 70 W Alamogordo, N. M.

As shown by attached weight ticket(s) prepared by the weighmaster.

(Attach only gross weight ticket if tare weight is obtained from a weight ticket on shipments listed below.)

DRIVER ON ☐ OFF ☒

Chg 500

(LIST OF SHIPMENTS, IF ANY, ON VEHICLE AT TIME ABOVE WEIGHTS WERE OBTAINED)

SHIPPER	NET WEIGHT

I CERTIFY THE ABOVE ENTRIES ARE TRUE AND CORRECT.

DATE 4-29-97 B/L No.

(Driver's Signature)

RECEIVED MAY 0 6 1997

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print or type

NON-HAZARDOUS WASTE MANIFEST	1. Generator's US EPA ID No.	Manifest Document No. 0544	2. Page 1 of	Truck No 550111

3. Generator's Name and Mailing Address: Holloman Air Force Base, 49 CES/CEV, Holloman AFB, NM

Smwu 1.25

4. Generator's Phone ( ) 505-475-5395

5. Transporter 1 Company Name: Rhino Environmental Servies

6. US EPA ID Number: N/A

7. Transporter 2 Company Name

8. US EPA ID Number

9. Designated Facility Name and Site Address: Rhino Environmental Services, 2 mile NW of Newman, Otero County, NM

10. US EPA ID Number: DP1051

A. Transporter's Phone

B. Transpo 505-242-6464

C. Facility's 505-644-0932

11. Waste Shipping Name and Description	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
a. Hydrocarbon Contaminated Soils	1	BLK	33800	
b.				
c.				
d.				

D. Additional Descriptions for Materials Listed Above: NON- Hazardous Materials

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information: CELL M

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name: Michael A Jacobs — Signature: [signature] — Month 4 Day 30 Year 97

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: Michael Sylvano 550-111 — Signature: [signature] — Month 5 Day 1 Year 97

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name — Signature — Month Day Year

Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name — Signature — Month Day Year

GENERATOR

TRANSPORTER

FACILITY

№ 013234

STATE CERTIFICATE OF WEIGHTS AND MEASURES

DRIVER'S WEIGHT CERTIFICATE

NAME OF CARRIER (BEKINS MOVING & STGE.) (BEKINS VAN LINES)

OTHER CARRIER RHINO

Vehicle Identification 550/111

Name of Shipper

Origin of Shipment

Destination of Shipment

#66120

lbs. Gross — Gross weight of loaded vehicle, with driver only, thereon.

lbs. Tare — Tare weight of vehicle, with driver only, thereon, including full gasoline tank and all necessary pads, chains, dollies, hand trucks, and other equipment.

lbs. Net — Net weight of the shipment.

Signed Owen D — Weighmaster

THIS FORM PRESCRIBED BY INTERSTATE COMMERCE COMMISSION
EX PARTE - MC - 19
AS AMENDED EFFECTIVE JUNE 1, 1970

The gross and tare weights were obtained at scales

NMDA APPROVED

GROSS	NAME OF SCALE OWNER	(BEKINS M & S) /	(BEKINS MOVING & STGE.)
	LOCATION	2315 S. Valley Dr. Las Cruces, N. M. /	US 70 W Alamogordo, N. M.
TARE	NAME OF SCALE OWNER	(BEKINS M & S) /	(BEKINS MOVING & STGE.)
	LOCATION	2315 S. Valley Dr. Las Cruces, N. M. /	US 70 W Alamogordo, N. M.

As shown by attached weight ticket(s) prepared by the weighmaster.

(Attach only gross weight ticket if tare weight is obtained from a weight ticket on shipments listed below.)

DRIVER ON ☐ OFF ☒

(LIST OF SHIPMENTS, IF ANY, ON VEHICLE AT TIME ABOVE WEIGHTS WERE OBTAINED)

SHIPPER	NET WEIGHT

I CERTIFY THE ABOVE ENTRIES ARE TRUE AND CORRECT.

DATE 5-01-97 B/L No.

Driver Signature

APPENDIX A

AOC-G

NON-HAZARDOUS WASTE MANIFEST	1. Generator's US EPA ID No.	Manifest Document No. 0550	2. Page 1 of 6003/0004

3. Generator's Name and Mailing Address

DP-13

4. Generator's Phone ( )

5. Transporter 1 Company Name	6. US EPA ID Number
7. Transporter 2 Company Name	8. US EPA ID Number
9. Designated Facility Name and Site Address	10. US EPA ID Number

A. Transporter's Phone

B. Transporter's Phone

C. Facility's Phone

11. Waste Shipping Name and Description	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt/Vol
a.			35600	
b.				
c.				
d.				

D. Additional Descriptions for Materials Listed Above

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste

Printed/Typed Name	Signature	Month	Day	Year
[illegible]	[illegible]			

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
[illegible]				

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year

19. Discrepancy Indication Space

0. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name	Signature	Month	Day	Year
[illegible]	[illegible]			

GENERATOR

TRANSPORTER

FACILITY

12-BLS-C5 Rev. 4/94

GENERATOR'S COPY

MATERIAL
TICKET

JOBE Concrete Products Inc.
#1 McKELLIGON CANYON RD.
EL PASO, TEXAS 79930
(915) 565-4681

649951

JOB NO. _____

DATE 6-17-97 TRUCK NO. 550 DRIVER _____

CUSTOMER K Law Environmental

DELIVER TO _____

PURCHASE ORDER NO. _____

TYPE, SIZE OR QUALITY

- ☐ BUILDING STONE
- ☐ CONCRETE SAND
- ☐ MORTAR SAND
- ☐ OTHER scalpay
- ☐ CRUSHED GRAVEL
- ☐ ARROYO STONE
- ☐ SCREENINGS

GROSS 68060
TARE 32460
NET 35600

QUANTITY	UNIT PRICE	AMOUNT
17.80		

BY SIGNING BELOW, PURCHASER AGREES TO BE BOUND TO TERMS ON REVERSE SIDE.

RECEIVED BY Michael Lu

DELIVERY _____
TAX _____
TOTAL _____

THANK - YOU
see terms and conditions reverse side

DRIVER

Please print or type
(Form designed for use on elite (12-pitch) typewriter.)

NON-HAZARDOUS WASTE MANIFEST	1. Generator's US EPA ID No.	Manifest Document No.	2. Page 1 of

3. Generator's Name and Mailing Address

D-243

4. Generator's Phone ( )

5. Transporter 1 Company Name	6. US EPA ID Number
7. Transporter 2 Company Name	8. US EPA ID Number
9. Designated Facility Name and Site Address	10. US EPA ID Number

A. Transporter's Phone
B. Transporter's Phone
C. Facility's Phone

11. Waste Shipping Name and Description	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
a.	1		34420	
b.				
c.				
d.				

D. Additional Descriptions for Materials Listed Above

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name	Signature	Month	Day	Year
WAGEER NJEEF		6	5	97

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
		10	12	97

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year

19. Discrepancy Indication Space

Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name	Signature	Month	Day	Year
Jerry Dunlap				

GENERATOR

TRANSPORTER

FACILITY

GENERATOR'S COPY

MATERIAL TICKET

JOBE Concrete Products Inc.
#1 McKELLIGON CANYON RD.
EL PASO, TEXAS 79930
(915) 565-4681

649977

JOB NO.

DATE 6-17-97 TRUCK NO. 530 DRIVER

CUSTOMER

DELIVER TO

PURCHASE ORDER NO.

TYPE, SIZE OR QUALITY

- ☐ BUILDING STONE
- ☐ CRUSHED GRAVEL
- ☐ CONCRETE SAND
- ☐ ARROYO STONE
- ☐ MORTAR SAND
- ☐ SCREENINGS
- ☐ OTHER Sand

	QUANTITY	UNIT PRICE	AMOUNT
GROSS 66880	11.51		
TARE 32460			
NET 34420			

BY SIGNING BELOW, PURCHASER AGREES TO BE BOUND TO TERMS ON REVERSE SIDE.

RECEIVED BY

DELIVERY

TAX

TOTAL

THANK - YOU

see terms and conditions reverse side

DRIVER

Please print or type
(Form designed for use on elite (12-pitch) typewriter.)

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.

Manifest Document No.

2. Page 1 of

Generator's Name and Mailing Address

4. Generator's Phone ( )

5. Transporter 1 Company Name

6. US EPA ID Number

7. Transporter 2 Company Name

8. US EPA ID Number

9. Designated Facility Name and Site Address

10. US EPA ID Number

A. Transporter's Phone

B. Transporter's Phone

C. Facility's Phone

11. Waste Shipping Name and Description	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt/Vol
a.				
b.				
c.				
d.				

Additional Descriptions for Materials Listed Above

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name: WARREN NEFF

Signature: [illegible]

Month 6 Day 15 Year 87

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: CHUS NEAL

Signature: [illegible]

Month 6 Day 12 Year 11

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

19. Discrepancy Indication Space

Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name: Stanley Dunhap

Signature: [illegible]

Month 6 Day 10 Year 87

GENERATOR

TRANSPORTER

FACILITY

ELECTRONIC SCALE TICKET

NO. _____

DATE 6/12/97

SELLER / BUYER Rhino Environmental Svcs

ADDRESS _____

CITY _____ STATE _____ ZIP _____

COMMODITY Dirt

PRICE _____

REMARKS _____

Chris Neal

DRIVER ☐ ON ☐ OFF _____

SHER Ann Rodriguez

Form ES-4

45

[illegible]

[illegible] PM Jun 12, 1997

[illegible] 70400 LB

[illegible] 32750

[illegible] 37700

NON-HAZARDOUS WASTE MANIFEST	1. Generator's US EPA ID No.	Manifest Document No.	2. Page 1 of	#85

Generator's Name and Mailing Address [illegible] [illegible] [illegible]		
4. Generator's Phone ( )		
5. Transporter 1 Company Name [illegible]	6. US EPA ID Number	
7. Transporter 2 Company Name	8. US EPA ID Number	
9. Designated Facility Name and Site Address Rhino Environmental Services [illegible] 2 mile NW of Newman, [illegible]	10. US EPA ID Number	A. Transporter's Phone B. Transporter's Phone C. Facility's Phone [illegible]

11. Waste Shipping Name and Description	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt/Vol
a. Hydrocarbon Contaminated Soils	1		5300	
b.				
c.				
d.				

Additional Descriptions for Materials Listed Above NON-Hazardous Materials	E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

CELL M

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name	Signature	Month	Day	Year
WARREN WEEF	Warren Weef	6	10	[illegible]

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
Chris Neal	Chris Neal	6	2	[illegible]

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year

19. Discrepancy Indication Space

Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name	Signature	Month	Day	Year
Kenny [illegible]	[illegible]			

GENERATOR'S COPY

0547

ELECTRONIC SCALE TICKET

NO. _____

DATE 6/12/97

SELLER
BUYER Chino Environmental

13

ADDRESS

MESA VERDE

CITY STATE ZIP

ALAMAGORDO, NM

COMMODITY Dirt

PRICE

REMARKS

03:28 AM Jun 12, 1997

GROSS: 70260 LB
Tare: 32780
Net: 37480

DRIVER ☐ ON ☐ OFF

WEIGHER Elmer Rodriguez

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.

Manifest Document No.

2. Page 1 of 6 003/7004

Generator's Name and Mailing Address

[illegible]
[illegible]
[illegible]

4. Generator's Phone ( ) [illegible]

5. Transporter 1 Company Name: Rinco Environmental Services

6. US EPA ID Number

7. Transporter 2 Company Name

8. US EPA ID Number

9. Designated Facility Name and Site Address: Rinco Environmental Services
1 mile NW of Newman, Otero County, NM

10. US EPA ID Number

A. Transporter's Phone

B. Transporter's Phone

C. Facility's Phone

11. Waste Shipping Name and Description	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
a. Hydrocarbon Contaminated Soils	1		35120	
b.				
c.				
d.				

Additional Descriptions for Materials Listed Above: NON- Hazardous Materials

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information: CELL M

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name: WARREN NEFF | Signature: Warren Neff | Month 6 | Day 18 | Year 98

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: Michael Barrio 6 003/7004 | Signature: Michael Barrio | Month 6 | Day 18 | Year 98

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name | Signature | Month | Day | Year

19. Discrepancy Indication Space

Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name | Signature

GENERATOR'S COPY

DRIVERS WEIGHT CERTIFICATE

(BEKINS MOVING & STGE.) (BEKINS VAN LINES)

STATE CERTIFICATE OF WEIGHTS AND MEASURES

The gross and tare weights were obtained at scales

NAME OF SCALE OWNER (BEKINS M & S) NMDA APPROVED (BEKINS MOVING & STGE.)

GROSS

LOCATION 2315 S. Valley Dr. Las Cruces, N. M. US 70 W Alamogordo, N. M.

NAME OF SCALE OWNER (BEKINS M & S) (BEKINS MOVING & STGE.)

TARE

LOCATION 2315 S. Valley Dr. Las Cruces, N. M. US 70 W Alamogordo, N. M.

As shown by attached weight ticket(s) prepared by the weighmaster, [illegible]

(Attach only gross weight ticket if tare weight is obtained from a tabulated list of commonly used tares.)

(LIST OF SHIPMENTS, IF ANY, ON VEHICLE AT TIME ABOVE WEIGHTS WERE OBTAINED)

SHIPPER MET WEIGHT

DRIVER ON ☐ OFF ☒

I CERTIFY THE ABOVE ENTRIES ARE TRUE AND CORRECT.

DATE 6-10-2 (Driver's Signature)

MATERIAL TICKET

JOB PERFORMED PROPERLY

BY SO BEKINS

6 1988

JOB NO.

DATE 6-10-2 TRUCK NO. DRIVER

CUSTOMER

DELIVER TO

PURCHASE ORDER NO.

TYPE, SIZE OR QUALITY

☒ BUILDING STONE ☐ CRUSHED GRAVEL

☐ CONCRETE SAND ☒ ARROYO STONE

☐ MORTAR SAND ☐ SCREENINGS

☐ OTHER Scale only

QUANTITY	UNIT PRICE	AMOUNT

GROSS

TARE 32460

NET

BY SIGNING BELOW, PURCHASER AGREES TO BE BOUND TO TERMS ON REVERSE SIDE

RECEIVED BY

DELIVERY

TAX

TOTAL

THANK - YOU

see terms and conditions reverse side

DRIVER

NON-HAZARDOUS WASTE MANIFEST	1. Generator's US EPA ID No.	Manifest Document No.	2. Page 1 of	6013-7004

3. Generator's Name and Mailing Address [illegible] 49 [illegible] Kirtland AFB, NM		
4. Generator's Phone ( ) 505-[illegible]		
5. Transporter 1 Company Name Rhino Environmental Services	6. US EPA ID Number	
7. Transporter 2 Company Name	8. US EPA ID Number	
9. Designated Facility Name and Site Address Rhino Environmental Services 2 mile NW of Newman, Otero County, NM	10. US EPA ID Number [illegible]	A. Transporter's Phone B. Transporter's Phone C. Facility's Phone

11. Waste Shipping Name and Description	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
a. Hydrocarbon Contaminated Soils	1	[illegible]	39750	[illegible]
b.				
c.				
d.				

D. Additional Descriptions for Materials Listed Above	E. Handling Codes for Wastes Listed Above
NON-Hazardous Materials	

15. Special Handling Instructions and Additional Information

CELL M

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name	Signature	Month	Day	Year
WARREN NEFF	[signature]	06	10	[illegible]

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
Michael Surmeo 6/01/2001	[signature]	06	10	[illegible]

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year

19. Discrepancy Indication Space

[illegible]

Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name	Signature
[illegible]	[signature]

GENERATOR'S COPY

GENERATOR

TRANSPORTER

FACILITY

STATE CERTIFICATE OF WEIGHTS AND MEASURES

DRIVER'S WEIGHT CERTIFICATE

(BEKINS MOVING & STGE.) (BEKINS VAN LINES)

The gross and tare weights were obtained at scales

NMDA APPROVED

Cfg

GROSS	NAME OF SCALE OWNER	(BEKINS M & S)	(BEKINS MOVING & STGE.)
	LOCATION	2315 S. Valley Dr. Las Cruces, N. M.	US 70 W. Alamogordo, N. M.
TARE	NAME OF SCALE OWNER	(BEKINS M & S)	(BEKINS MOVING & STGE.)
	LOCATION	2315 S. Valley Dr. Las Cruces, N. M.	US 70 W. Alamogordo, N. M.

As shown by attached weight ticket(s) prepared by the weighmaster.

(Attach only gross weight ticket if tare weight is obtained from a weight ticket on shipments listed below.)

DRIVER ON ☐ OFF ☒

(LIST OF SHIPMENTS, IF ANY, ON VEHICLE AT TIME ABOVE WEIGHTS WERE OBTAINED)

SHIPPER	NET WEIGHT

I CERTIFY THE ABOVE ENTRIES ARE TRUE AND CORRECT

DATE B/L No. (Driver's Signature)

STATE CERTIFICATE OF WEIGHTS AND MEASURES

DRIVER'S WEIGHT CERTIFICATE

(BEKINS MOVING & STGE.) (BEKINS VAN LINES)

The gross and tare weights were obtained at scales

NMDA APPROVED

Cfg

GROSS	NAME OF SCALE OWNER	(BEKINS M & S)	(BEKINS MOVING & STGE.)
	LOCATION	2315 S. Valley Dr. Las Cruces, N. M.	US 70 W. Alamogordo, N. M.
TARE	NAME OF SCALE OWNER	(BEKINS M & S)	(BEKINS MOVING & STGE.)
	LOCATION	2315 S. Valley Dr. Las Cruces, N. M.	US 70 W. Alamogordo, N. M.

As shown by attached weight ticket(s) prepared by the weighmaster.

(Attach only gross weight ticket if tare weight is obtained from a weight ticket on shipments listed below.)

DRIVER ON ☐ OFF ☒

(LIST OF SHIPMENTS, IF ANY, ON VEHICLE AT TIME ABOVE WEIGHTS WERE OBTAINED)

SHIPPER	NET WEIGHT

I CERTIFY THE ABOVE ENTRIES ARE TRUE AND CORRECT

Please print or type
(Form designed for use on elite (12-pitch) typewriter.)

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.

Manifest Document No.

2. Page 1 of

3. Generator's Name and Mailing Address

4. Generator's Phone ( )

5. Transporter 1 Company Name

6. US EPA ID Number

7. Transporter 2 Company Name

8. US EPA ID Number

9. Designated Facility Name and Site Address

10. US EPA ID Number

A. Transporter's Phone

B. Transporter's Phone

C. Facility's Phone

11. Waste Shipping Name and Description	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
a.	1	BLK	14.00	TONS
b.				
c.				
d.				

GENERATOR

J. Additional Descriptions for Materials Listed Above

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name: WARREN NEFF | Signature: | Month 6 | Day 5 | Year 9

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: | Signature: | Month 6 | Day 13 | Year 9

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name | Signature | Month | Day | Year

FACILITY

19. Discrepancy Indication Space

Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name | Signature | Month | Day | Year

GENERATOR'S COPY

DELIVERY TO

PURCHASE ORDER NO.

TYPE, SIZE OR QUALITY

☐ BUILDING STONE ☐ CRUSHED GRAVEL

☐ CONCRETE SAND ☐ ARROYO STONE

☐ MORTAR SAND ☐ SCREENINGS

☑ OTHER Seal only

	QUANTITY	UNIT PRICE	AMOUNT
GROSS 60640			
TARE 32460	14.09		
NET 28180			

BY SIGNING BELOW, PURCHASER AGREES TO BE BOUND TO TERMS ON REVERSE SIDE.

RECEIVED BY

DELIVERY

TAX

THANK YOU

See terms and conditions reverse side

TOTAL

DRIVER

1 2

Please print or type
(Form designed for use on elite (12-pitch) typewriter)

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.

Manifest Document No. 0553

2. Page 1 of

3. Generator's Name and Mailing Address

4. Generator's Phone ( )

5. Transporter 1 Company Name

6. US EPA ID Number

7. Transporter 2 Company Name

8. US EPA ID Number

9. Designated Facility Name and Site Address

10. US EPA ID Number

A. Transporter's Phone

B. Transporter's Phone

C. Facility's Phone

11. Waste Shipping Name and Description

	12. Containers No.	Type	Total Quantity	Unit Wt/Vol
a.				
b.				
c.				
d.				

D. Additional Descriptions for Materials Listed Above

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name: NATHAN NEFF

Signature: Nate Neff

Month 6 Day 3 Year 97

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

19. Discrepancy Indication Space

RECEIVED JUN 19 1997

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19

Printed/Typed Name: Jimmy Dunkin

Signature

Month Day Year

GENERATOR

TRANSPORTER

FACILITY

GENERATOR'S COPY

ELECTRONIC SCALE TICKET

NO. 89

DATE 6/13/97

SELLER
BUYER Rhino Environmental

MESA VERDE
ALAMAGORDO, NM

ADDRESS

CITY STATE ZIP

COMMODITY

PRICE

REMARKS Chris Head

10:20 AM Jun 13, 1997

GROSS: 60060 LB
5770
27250

13.04 TN

DRIVER ☐ ON ☐ OFF

WEIGHER Lisa Fanning

Form ES-4

Please print or type
(Form designed for use on elite (12-pitch) typewriter.)

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.

Manifest Document No.

2. Page 1 of

3. Generator's Name and Mailing Address

4. Generator's Phone ( )

5. Transporter 1 Company Name

6. US EPA ID Number

7. Transporter 2 Company Name

8. US EPA ID Number

9. Designated Facility Name and Site Address

10. US EPA ID Number

A. Transporter's Phone

B. Transporter's Phone

C. Facility's Phone

11. Waste Shipping Name and Description	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
a.	1		37520 ~~1976~~	
b.				
c.				
d.				

J. Additional Descriptions for Materials Listed Above

Non-Hazardous Materials

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

CELL M

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name: WARREN NEFF | Signature: Warren Neff | Month: 6 | Day: 3 | Year: 9

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: Chris Neal | Signature: Chris Neal | Month: 10 | Day: 12 | Year: 94

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name | Signature | Month | Day | Year

19. Discrepancy Indication Space

Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name | Signature | Month | Day | Year

GENERATOR

TRANSPORTER

FACILITY

GENERATOR'S COPY

ELECTRONIC SCALE TICKET

DATE 6/12/97

SELLER
BUYER Rhino Environmental

ADDRESS

CITY STATE ZIP

COMMODITY Dirt

PRICE

REMARKS

Driver Chris Neal

DRIVER ☐ ON ☐ OFF

WEIGHER Chris Rodriguez

Form ES

ALAMAGORDO NEWSPAPER

74

MESA VERDE
ALAMAGORDO, NM

05:03 PM Jun 12, 1997

GROSS: 70300 LB
TARE: ~~TARE~~ 32800
NET: 37500

18.76 TNS

APPENDIX A

AOC-P (OT-44)

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Please print or type

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.

Manifest Document No. 0333

2. Page 1 of Truck w/ soil

3. Generator's Name and Mailing Address
Holloman Air Force Base
49 CES/CEV
Holloman AFB, NM

OT-44, SP #1
AOC-P

4. Generator's Phone ( ) 505-475-5395

5. Transporter 1 Company Name
Rhino Environmental Services

6. US EPA ID Number
N/A

7. Transporter 2 Company Name

8. US EPA ID Number

9. Designated Facility Name and Site Address
Rhino Environmental Services
2 mile NW of Newman, Otero County, NM

10. US EPA ID Number
DP1051

A. Transporter's Phone
B. Transpo 505-242-6464
C. Facility's 505-644-0932

11. Waste Shipping Name and Description	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
a. Hydrocarbon Contaminated Soils	1	BULK	43630	lbs
b.			21.81525	
d.				

D. Additional Descriptions for Materials Listed Above
NON- Hazardous Materials

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information
CELL M

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name: WARREN NEFF
Signature: [signature]
Month 4 Day 8 Year 97

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Michael Sarmiento SSO-11
Signature: [signature]
Month 04 Day 08 Year 97

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name
Signature
Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

GENERATOR
TRANSP
FACILITY

№ 013156 STATE CERTIFICATE OF WEIGHTS AND MEASURES

DRIVER'S WEIGHT CERTIFICATE

NAME OF CARRIER (BEKINS MOVING & STGE.) (BEKINS VAN LINES)

OTHER CARRIER Rhino

Vehicle Identification 550-111

Name of Shipper

Origin of Shipment Destination of Shipment

76300
MGP
32670
43680
21,81 Tare

lbs. Gross — Gross weight of loaded vehicle, with driver only, thereon.

lbs. Tare — Tare weight of vehicle, with driver only, thereon, including full gasoline tank and all necessary pads, chains, dollies, hand trucks, and other equipment.

lbs. Net — Net weight of the shipment.

THIS FORM PRESCRIBED BY INTERSTATE COMMERCE COMMISSION
EX PARTE - MC - 19
AS AMENDED EFFECTIVE JUNE 1, 1975

Signed M. Paineaude
Weighmaster

The gross and tare weights were obtained at scales

NMDA APPROVED

GROSS	NAME OF SCALE OWNER	(BEKINS M & S) /	(BEKINS MOVING & STGE.)
	LOCATION	2315 S. Valley Dr. Las Cruces, N. M. /	US 70 W Alamogordo, N. M. ✓
TARE	NAME OF SCALE OWNER	(BEKINS M & S) /	(BEKINS MOVING & STGE.)
	LOCATION	2315 S. Valley Dr. Las Cruces, N. M. /	US 70 W Alamogordo, N. M.

As shown by attached weight ticket(s) prepared by the weighmaster.

(Attach only gross weight ticket if tare weight is obtained from a weight ticket on shipments listed below.)

DRIVER ON ☐ OFF ☒

Chg 500

(LIST OF SHIPMENTS, IF ANY, ON VEHICLE AT TIME ABOVE WEIGHTS WERE OBTAINED)

SHIPPER	NET WEIGHT

I CERTIFY THE ABOVE ENTRIES ARE TRUE AND CORRECT.

DATE 4-8-97 B/L No. (Driver's Signature)

№ 013155 STATE CERTIFICATE OF WEIGHTS AND MEASURES

DRIVER'S WEIGHT CERTIFICATE

NAME OF CARRIER (BEKINS MOVING & STGE.) (BEKINS VAN LINES)

OTHER CARRIER Rhino

Vehicle Identification 550-111

Name of Shipper

Origin of Shipment Destination of Shipment

32670

lbs. Gross — Gross weight of loaded vehicle, with driver only, thereon.

lbs. Tare — Tare weight of vehicle, with driver only, thereon, including full gasoline tank and all necessary pads, chains, dollies, hand trucks, and other equipment.

lbs. Net — Net weight of the shipment.

FORM PRESCRIBED BY INTERSTATE

M. Paineaude

The gross and tare weights were obtained at scales

NMDA APPROVED

GROSS	NAME OF SCALE OWNER	(BEKINS M & S) /	(BEKINS MOVING & STGE.)
	LOCATION	2315 S. Valley Dr. Las Cruces, N. M. /	US 70 W Alamogordo, N. M.
TARE	NAME OF SCALE OWNER	(BEKINS M & S) /	(BEKINS MOVING & STGE.)
	LOCATION	2315 S. Valley Dr. Las Cruces, N. M. /	US 70 W Alamogordo, N. M. ✓

As shown by attached weight ticket(s) prepared by the weighmaster.

(Attach only gross weight ticket if tare weight is obtained from a weight ticket on shipments listed below.)

DRIVER ON ☐ OFF ☒

Chg 500

(LIST OF SHIPMENTS, IF ANY, ON VEHICLE AT TIME ABOVE WEIGHTS WERE OBTAINED)

SHIPPER	NET WEIGHT

I CERTIFY THE ABOVE ENTRIES ARE TRUE AND CORRECT.

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Please print or type

NON-HAZARDOUS WASTE MANIFEST	1. Generator's US EPA ID No.	Manifest Document No. 0597	2. Page 1 of	Truck No 550111

3. Generator's Name and Mailing Address: Holloman Air Force Base, 49 CES/CEV, Holloman AFB, NM

OT-44, SP #1
AOC-P

4. Generator's Phone ( ) 505-475-5395

5. Transporter 1 Company Name: Rhino Environmental Servies

6. US EPA ID Number: N/A

7. Transporter 2 Company Name

8. US EPA ID Number

9. Designated Facility Name and Site Address: Rhino Environmental Services, 2 mile NW of Newman, Otero County, NM

10. US EPA ID Number: DP1051

A. Transporter's Phone
B. Transpo 505-242-6464
C. Facility's 505-644-0932

11. Waste Shipping Name and Description	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
a. Hydrocarbon Contaminated Soils	1	BULK	42590	lbs
b.			2029 Tons	
c.				
d.				

D. Additional Descriptions for Materials Listed Above: NON- Hazardous Materials

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information: CELL M

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name: WARREN NEFF — Signature: Warren Neff — Month 4 Day 8 Year 97

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: Michael Greano 550111 — Signature: Michael G — Month 04 Day 09 Year 97

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name — Signature — Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19

GENERATOR — TRANSPORTER — FACILITY

№ 013161 STATE CERTIFICATE OF WEIGHTS AND MEASURES

DRIVER'S WEIGHT CERTIFICATE

NAME OF CARRIER (BEKINS MOVING & STGE.) (BEKINS VAN LINES)

OTHER CARRIER Ohio

Vehicle Identification 550-111

Name of Shipper

Origin of Shipment Destination of Shipment

75260
32670
42590

21.29 tons

lbs. Gross	Gross weight of loaded vehicle, with driver only, thereon.
lbs. Tare	Tare weight of vehicle, with driver only, thereon, including full gasoline tank and all necessary pads, chains, dollies, hand trucks, and other equipment.
lbs. Net	Net weight of the shipment.

THIS FORM PRESCRIBED BY INTERSTATE COMMERCE COMMISSION
EX PARTE - MC - 19
AS AMENDED EFFECTIVE JUNE 1, 1970

Signed M. Patneaude
Weighmaster

The gross and tare weights were obtained at scales

NMDA APPROVED

GROSS	NAME OF SCALE OWNER	(BEKINS M & S)	(BEKINS MOVING & STGE.)
	LOCATION	2315 S. Valley Dr. Las Cruces, N. M.	US 70 W Alamogordo, N. M.
TARE	NAME OF SCALE OWNER	(BEKINS M & S)	(BEKINS MOVING & STGE.)
	LOCATION	2315 S. Valley Dr. Las Cruces, N. M.	US 70 W Alamogordo, N. M.

As shown by attached weight ticket(s) prepared by the weighmaster.

(Attach only gross weight ticket if tare weight is obtained from a weight ticket on shipments listed below.)

DRIVER ON ☐ OFF ☒

(LIST OF SHIPMENTS, IF ANY, ON VEHICLE AT TIME ABOVE WEIGHTS WERE OBTAINED)

SHIPPER	NET WEIGHT

I CERTIFY THE ABOVE ENTRIES ARE TRUE AND CORRECT.

DATE 4-9-97 B/L No.

(Driver's Signature)

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Please print or type

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.

Manifest Document No. 0535

2. Page 1 of

550111 Truck No

3. Generator's Name and Mailing Address
Holloman Air Force Base
49 CES/CEV
Holloman AFB, NM

OT-44, SP #1
AOC-P

4. Generator's Phone ( ) 505-475-5395

5. Transporter 1 Company Name
Rhino Environmental Servies

6. US EPA ID Number
N/A

7. Transporter 2 Company Name

8. US EPA ID Number

9. Designated Facility Name and Site Address
Rhino Environmental Services
2 mile NW of Newman, Otero County, NM

10. US EPA ID Number
DP1051

A. Transporter's Phone
B. Transporter's Phone 505-242-6464
C. Facility's Phone 505-644-0932

11. Waste Shipping Name and Description	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
a. Hydrocarbon Contaminated Soils	1	BULK	34650 (17.32 TNS)	lbs
b.				
d.				

D. Additional Descriptions for Materials Listed Above
NON- Hazardous Materials

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information
CELL M

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name	Signature	Month	Day	Year
WARREN NEFF	Warren Neff	4	9	97

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
Michael Barnes 550-111	Michael	4	9	97

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

GEN OR TRANSPOR FACILIT

№ 013162 STATE CERTIFICATE OF WEIGHTS AND MEASURES

DRIVER'S WEIGHT CERTIFICATE

NAME OF CARRIER (BEKINS MOVING & STGE.) (BEKINS VAN LINES)

OTHER CARRIER RHINO

Vehicle Identification 5501 111

Name of Shipper

Origin of Shipment Destination of Shipment

67320 lbs. Gross — Gross weight of loaded vehicle, with driver only, thereon.

32670 lbs. Tare — Tare weight of vehicle, with driver only, thereon, including full gasoline tank and all necessary pads, chains, dollies, hand trucks, and other equipment.

34650 lbs. Net — Net weight of the shipment.

1732 TWS

THIS FORM PRESCRIBED BY INTERSTATE COMMERCE COMMISSION
EX PARTE - MC - 19
AS AMENDED EFFECTIVE JUNE 1, 1970

Signed Juan [illegible] Weighmaster

The gross and tare weights were obtained at scales

NMDA APPROVED

GROSS	NAME OF SCALE OWNER	(BEKINS M & S) /	(BEKINS MOVING & STGE.)
	LOCATION	2315 S. Valley Dr. Las Cruces, N. M. /	US 70 W Alamogordo, N. M.
TARE	NAME OF SCALE OWNER	(BEKINS M & S) /	(BEKINS MOVING & STGE.)
	LOCATION	2315 S. Valley Dr. Las Cruces, N. M. /	US 70 W Alamogordo, N. M.

As shown by attached weight ticket(s) prepared by the weighmaster.

(Attach only gross weight ticket if tare weight is obtained from a weight ticket on shipments listed below.)

DRIVER ON ☐ OFF ☒

(LIST OF SHIPMENTS, IF ANY, ON VEHICLE AT TIME ABOVE WEIGHTS WERE OBTAINED)

SHIPPER	NET WEIGHT

I CERTIFY THE ABOVE ENTRIES ARE TRUE AND CORRECT.

DATE 4-9-97 B/L No. Michael [illegible] (Driver's Signature)

APPENDIX A

SWMU 28

NON-HAZARDOUS WASTE MANIFEST	1. Generator's US EPA ID No.	Manifest Document No. R01001	2. Page 1 of 1	530-112

Generator's Name and Mailing Address
Holloman AFB
Holloman AFB, NM
40 m/ NEV

SWMU 28 ~~[illegible]~~

4. Generator's Phone (505) 474-4595

5. Transporter 1 Company Name	6. US EPA ID Number
Rhino Environmental Services	N/a

7. Transporter 2 Company Name	8. US EPA ID Number

9. Designated Facility Name and Site Address	10. US EPA ID Number
Rhino Environmental Services--DP-994 1 Mile Norht of Newman, NM Newman, NM	

A. Transporter's Phone
B. Transporter's Phone ~~505-397-4498~~
C. Facility's Phone ~~505-397-4998~~

11. Waste Shipping Name and Description	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
a. Hydrocarbon Contaminated Soils	1	Bulk	47430	lbs
b.				
c.				
d.				

D. Additional Descriptions for Materials Listed Above

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name	Signature	Month	Day	Year
Jennifer D. Hale	[illegible]	01	30	96

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
Jim Cosper	[illegible]	1	30	96

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year

19. Discrepancy Indication Space

Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.
Rhino Env. Ser. Inc. 1 mi. N of Newman, NM DP-994

Printed/Typed Name	Signature	Month	Day	Year
George Goins	George Goins	1	30	96

GENERATOR
TRANSPORTER
FACILITY

GENERATOR'S COPY

STATE CERTIFICATE OF WEIGHTS AND MEASURES

DRIVER'S WEIGHT CERTIFICATE

NAME of CARRIER: (BEKINS MOVING & STGE.) (BEKINS VAN LINES)

OTHER CARRIER: Cal

Vehicle Identification: 530 112

Name of Shipper:

Origin of Shipment: Destination of Shipment:

30150 lbs. Gross — Gross weight of loaded vehicle, with driver only, thereon.

lbs. Tare — Tare weight of vehicle, with driver only thereon, including full gasoline tank and all necessary pads, chains, dollies, hand trucks, and other equipment.

32720 TARE lbs. Net — Net weight of the shipment.

THIS FORM PRESCRIBED BY INTERSTATE COMMERCE COMMISSION
EX PARTE MC - 19
AS AMENDED EFFECTIVE JUNE 1, 1970

Signed: M. Patrecuale
Weighmaster

The gross and tare weights were obtained

WINDA APPRO

GROSS	NAME OF SCALE OWNER	(BEKINS M & S)	(BEKINS MOV
	LOCATION	Las Cruces N M	Alamogordo N M
TARE	NAME OF SCALE OWNER	(BEKINS M & S)	(BEKINS MOVING & STGE)
	LOCATION	Las Cruces N M	Alamogordo N M

As shown by attached weight ticket(s) issued by the weighmaster.

(Attach only gross weight ticket if tare weight is obtained from a weight ticket on shipments listed below.)

DRIVER ON ☐ OFF ☑

(LIST OF SHIPMENTS, IF ANY, ON VEHICLE AT TIME ABOVE WEIGHTS WERE OBTAINED)

SHIPPER	NET WEIGHT

I CERTIFY THE ABOVE ENTRIES ARE TRUE AND CORRECT.

DATE 1-30-86 B/L No. Cooper (Driver's Signature)

NON-HAZARDOUS WASTE MANIFEST	1. Generator's US EPA ID No.	Manifest Document No. R01002	2. Page 1 of 1	54-115

Generator's Name and Mailing Address
Holloman AFB
Holloman AFB, NM 88345
10 CES/CEV

SWMU 28

4. Generator's Phone ( )

5. Transporter 1 Company Name	6. US EPA ID Number
Rhino Environmental Services	N/A

7. Transporter 2 Company Name	8. US EPA ID Number

9. Designated Facility Name and Site Address	10. US EPA ID Number
Rhino Environmental Services—DP-994 1 Mile North of Newman, NM Newman, NM	

A. Transporter's Phone
B. Transporter's Phone 505-392-4498
C. Facility's Phone 505-392-4828

11. Waste Shipping Name and Description	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
a. Hydrocarbon Contaminated Soils	1	Bulk	43560	lbs.
b.				
c.				
d.				

D. Additional Descriptions for Materials Listed Above

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name	Signature	Month	Day	Year
Jennifer Dilsik	[signature]	01	30	96

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
George Gains	[signature]	01	30	96

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year

19. Discrepancy Indication Space

Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.
Rhino Env. Ser. Inc 1 mi N of Newman, NM DP-994

Printed/Typed Name	Signature	Month	Day	Year
George Gains	[signature]	01	30	96

GENERATOR'S COPY

NO. 10653

STATE CERTIFICATE OF WEIGHTS AND MEASURES

DRIVER'S WEIGHT CERTIFICATE

NAME OF CARRIER (BEKINS MOVING & STGE.) (BEKINS VAN LINES)

OTHER CARRIER

Vehicle Identification 540-113

Name of Shipper

Origin of Shipment Destination of Shipment

75940

32380 TARE

lbs. Gross — Gross weight of loaded vehicle, with driver only, thereon.

lbs. Tare — Tare weight of vehicle, with driver only, thereon, including full gasoline tank and all necessary pads, chains, dollies, hand trucks, and other equipment.

lbs. Net — Net weight of the shipment.

THIS FORM PRESCRIBED BY INTERSTATE COMMERCE COMMISSION
EX PARTE - MC - 19
AS AMENDED EFFECTIVE JUNE 1, 1970

Signed [illegible] Weighmaster

The gross and tare weights were obtained at scales

NMDA APPROVED

GROSS	NAME OF SCALE OWNER	(BEKINS M & S)	(BEKINS MOVING & STGE.)
	LOCATION	2315 S. Valley Dr. Las Cruces N.M.	US 70 Alamogordo N.M.
TARE	NAME OF SCALE OWNER	(BEKINS M & S)	(BEKINS MOVING & STGE.)
	LOCATION	2315 S. Valley Dr. Las Cruces N.M.	US 70 Alamogordo N.M.

At shown by attached weight ticket(s) prepared by the weighmaster

DRIVER ON [illegible] OFF [X]

(Attach only gross weight ticket if tare weight is obtained from a weight ticket on shipments listed below.)

(LIST OF SHIPMENTS IF ANY ON VEHICLE AT TIME ABOVE WEIGHTS WERE OBTAINED)

SHIPPER	NET WEIGHT

I CERTIFY THE ABOVE ENTRIES ARE TRUE AND CORRECT

DATE 1-7-80 Ship. B/L No. (Driver's Signature)

NON-HAZARDOUS WASTE MANIFEST	1. Generator's US EPA ID No.	Manifest Document No. 801003	2. Page 1 of 1	

3. Generator's Name and Mailing Address
Holloman AFB
Holloman AFB, NM
4. Generator's Phone (505) 475-2 95

40 CY/CEV

SUMU 28

5. Transporter 1 Company Name	6. US EPA ID Number
Rhino Environmental Services	N/A
7. Transporter 2 Company Name	8. US EPA ID Number

9. Designated Facility Name and Site Address	10. US EPA ID Number
Rhino Environmental Services—DF-994 1 Mile North of Newman, NM Newman, NM	

A. Transporter's Phone
B. Transporter's Phone 505-392-4498
C. Facility's Phone 505-392-4393

11. Waste Shipping Name and Description	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
a. Hydrocarbon Contaminated Soils	1	Bulk	382.70	lbs
b.				
c.				
d.				

D. Additional Descriptions for Materials Listed Above

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name	Signature	Month	Day	Year
[illegible]	[illegible]	11	30	92

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name	Signature	Month	Day	Year
[illegible]		11	30	92

GENERATOR

TRANSPORTER

FACILITY

GENERATOR'S COPY

10-BLS-65 Rev 4/94

STATE CERTIFICATE OF WEIGHTS AND MEASURES

No. 10559

DRIVER'S WEIGHT CERTIFICATE

NAME OF CARRIER (BEKINS MOVING & STGE.) (BEKINS VAN LINES)

OTHER CARRIER Hand

Vehicle Identification 540 - 113

Name of Shipper

Origin of Shipment Destination of Shipment

70650

lbs. Gross	Gross weight of loaded vehicle, with driver only, thereon.	
32380 lbs. Tare	Tare weight of vehicle, with driver only, thereon, including full gasoline tank and all necessary pads, chains, dollies, hand trucks, and other equipment.	
lbs. Net	Net weight of the shipment.	

THIS FORM PRESCRIBED BY INTERSTATE COMMERCE COMMISSION EX PARTE MC - 19 AS AMENDED EFFECTIVE JUNE 1, 1970

Signed M. Pacheco Weighmaster

The gross and tare weights were obtained at scales

NMDA APPROVED

GROSS	NAME OF SCALE OWNER	(BEKINS M & S)	(BEKINS MOVING & STGE)
	LOCATION	2315 S. Valley Dr. Las Cruces N.M.	US 70 W Alamogordo N.M.
TARE	NAME OF SCALE OWNER	(BEKINS M & S)	(BEKINS MOVING & STGE)
	LOCATION	2315 S. Valley Dr. Las Cruces N.M.	US 70 W Alamogordo N.M.

As shown by attached weight ticket(s) prepared by the weighmaster

(Attach only gross weight ticket if tare weight is obtained from a weight ticket on shipments listed below.)

DRIVER ON OFF

(LIST OF SHIPMENTS, IF ANY, ON VEHICLE AT TIME ABOVE WEIGHTS WERE OBTAINED)

# SHIPPER	NET WEIGHT

I CERTIFY THE ABOVE ENTRIES ARE TRUE AND CORRECT

DATE 1-5-92 B/L No. (Driver's Signature)

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.

Manifest Document No. R01064

2. Page 1 of 1

530-112

Generator's Name and Mailing Address

Holloman AFB
Holloman AFB, NM

4 M/REV

SWMU 28

4. Generator's Phone ( ) 505-[illegible]-2395

5. Transporter 1 Company Name: Rhino Environmental Services

6. US EPA ID Number: N/A

7. Transporter 2 Company Name

8. US EPA ID Number

9. Designated Facility Name and Site Address

Rhino Environmental Services--DP-994
1 Mile North of Newman, NM
Newman, NM

10. US EPA ID Number

A. Transporter's Phone

B. Transporter's Phone 505-392-4498

C. Facility's Phone 505-392-4898

11. Waste Shipping Name and Description	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
a. Hydrocarbon Contaminated Soils	1	Bulk	46.57	lbs.
b.				
c.				
d.				

D. Additional Descriptions for Materials Listed Above

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name	Signature	Month	Day	Year
[illegible] D Hol[illegible]	[illegible]	01	30	96

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
Tim Cosper	[illegible]	1	[illegible]	96

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year

19. Discrepancy Indication Space

Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name	Signature	Month	Day	Year
[illegible]	[illegible]	1	30	96

GENERATOR

TRANSPORTER

FACILITY

No. 10600

STATE CERTIFICATE OF WEIGHTS AND MEASURES

DRIVER'S WEIGHT CERTIFICATE

NAME OF CARRIER (BEKINS MOVING & STGE.) (BEKINS VAN LINES)

OTHER CARRIER

Vehicle Identification 530-112

Name of Shipper

Origin of Shipment

Destination of Shipment

79310 lbs. Gross — Gross weight of loaded vehicle, with driver only, thereon.

32970 lbs. Tare — Tare weight of vehicle, with driver only, thereon, including full gasoline tank and all necessary pads, chains, dollies, hand trucks, and other equipment.

46340 lbs. Net — Net weight of the shipment.

THIS FORM PRESCRIBED BY INTERSTATE COMMERCE COMMISSION

Signed _____ Weighmaster

AS AMENDED/EFFECTIVE JUNE 1, 1970

The gross and tare weights were obtained at scales

NMDA APPROVED

GROSS	NAME OF SCALE OWNER	(BEKINS M & S)	(BEKINS MOVING & STGE.)
	LOCATION	2315 S. Valley Dr. Las Cruces, N. M.	US 70 W. Alamogordo, N. M.
TARE	NAME OF SCALE OWNER	(BEKINS M & S)	(BEKINS MOVING & STGE.)
	LOCATION	2315 S. Valley Dr. Las Cruces, N. M.	US 70 W. Alamogordo, N. M.

As shown by attached weight ticket(s) prepared by the weighmaster.

(Attach only gross weight ticket if tare weight is obtained from a weight ticket on shipments listed below.)

DRIVER ON ☐ OFF ☑

(LIST OF SHIPMENTS, IF ANY, ON VEHICLE AT TIME ABOVE WEIGHTS WERE OBTAINED)

SHIPPER	NET WEIGHT

I CERTIFY THE ABOVE ENTRIES ARE TRUE AND CORRECT

DATE 12-2-76 B/L No. _____ (Driver's Signature)

NON-HAZARDOUS WASTE MANIFEST	1. Generator's US EPA ID No.	Manifest Document No. 801005	2. Page 1 of 1	540-113

Generator's Name and Mailing Address
Holloman AFB
Holloman AFB, NM 419 CES/CEV

SWMU 28

4. Generator's Phone (505) 475-5595

5. Transporter 1 Company Name	6. US EPA ID Number
Rhino Environmental Services	N/A

7. Transporter 2 Company Name	8. US EPA ID Number

9. Designated Facility Name and Site Address	10. US EPA ID Number
Rhino Environmental Services--DP-994 1 Mile North of Newman, NM Newman, NM	

A. Transporter's Phone
B. Transporter's Phone 505-392-4888
C. Facility's Phone 505-392-4888

11. Waste Shipping Name and Description	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
a. Hydrocarbon Contaminated Soils	1	Bulk	50.140	YD
b.				
c.				
d.				

D. Additional Descriptions for Materials Listed Above

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name	Signature	Month	Day	Year
Jennifer D Hale	[signature]	11	30	94

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
George Goins	George Goins	1	30	96

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year

19. Discrepancy Indication Space

Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.
Rhino Env Ser Inc 1 mi N of Newman, NM DP-994

Printed/Typed Name	Signature	Month	Day	Year
George Goins	George Goins	1	30	96

GENERATOR

TRANSPORTER

FACILITY

GENERATOR'S COPY

CAT SCALE

THE CAT SCALE GUARANTEE

The CAT Scale Company guarantees that our scales will give an accurate weight. What makes us different from other scale companies is that we back up our guarantee with cash.

"WEIGH WHAT WE SAY OR WE PAY"

If you get an overweight fine from the state after one of our CAT Scales showed a legal weight, we will immediately check our scale and we will:

(1) Reimburse you for the cost of the overweight fine if our scale is wrong, OR

(2) A representative of CAT Scale Company will appear in court WITH the driver as an expert witness if we believe our scale was correct.

IF YOU SHOULD GET AN OVERWEIGHT FINE, YOU SHOULD DO THE FOLLOWING TO GET THE PROBLEM RESOLVED:

1) Post bond and request a court date.
2) Call the CAT Scale location where you got the weigh ticket in question and inform them of the fine, or call CAT Scale Company direct during normal business hours.
3) IMMEDIATELY send a copy of the citation, CAT Scale Ticket, your name, company, address, and phone number to CAT Scale.

RULES AND CLAIM FORM ON REVERSE SIDE

CERTIFIED AUTOMATED TRUCK SCALE

CAT SCALE COMPANY
P.O. BOX 630
WALCOTT, IA 52773
(319) 284-6263

The four weights shown below are separate weights. The GROSS WEIGHT is the CERTIFIED WEIGHT and was weighed on a full length platform scale.

DATE: 01/30/96

STEER AXLE 11760 lb

DRIVE AXLE 36780 lb

TRAILER AXLE 33980 lb

*GROSS WEIGHT 82520 lb

SCALE LOCATION: UNOCAL 76
I10 AND EXIT 37
EL PASO TX

PUBLIC WEIGHMASTER'S CERTIFICATE OF WEIGHT & MEASURE

DEPARTMENT OF AGRICULTURE • TEXAS •

This is to certify that the following merchandise was weighed, counted, or measured by a public weigher, and when properly signed shall be prima facia evidence of the accuracy of the weight shown as prescribed by law.

LIVESTOCK, PRODUCE, PROPERTY, COMMODITY, OR ARTICLE WEIGHED

COMPANY Rhino TRACTOR # 510 TRAILER # 123

WEIGHER SIGNATURE AND LICENSE NUMBER Mary J. FEE 7.00 FULL WEIGH TICKET # (IF REWEIGH)

0131674 TICKET NUMBER

DRIVER IN TRUCK UNLESS CHECKED HERE: ___ CAT 58

CAT SCALE® FORM TEXAS 5/94

NON-HAZARDOUS WASTE MANIFEST	1. Generator's US EPA ID No.	Manifest Document No. R01016	2. Page 1 of 1	530-112

Generator's Name and Mailing Address
Holloman AFB
Holloman AFB, NM
4. Generator's Phone (505) 475-5395

40 CES/CEV

SWMU-28

5. Transporter 1 Company Name	6. US EPA ID Number
Rhino Environmental Services	N/A
7. Transporter 2 Company Name	8. US EPA ID Number

9. Designated Facility Name and Site Address	10. US EPA ID Number	
Rhino Environmental Services--DP-994 1 Mile Norht of Newman, NM Newman, NM		A. Transporter's Phone B. Transporter's Phone 505-392-4498 C. Facility's Phone 505-392-4898

11. Waste Shipping Name and Description	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
a. Hydrocarbon Contaminated Soils	1	Bulk	48240	lbs
b.				
c.				
d.				

D. Additional Descriptions for Materials Listed Above

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name	Signature	Month	Day	Year
Jennifer D Hoole	Jennifer D Hoole	01	30	96

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
Jim Cosper	Jim Cosper	1	30	96

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year

19. Discrepancy Indication Space

Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in item 19.
Rhino Env Ser Inc 1 mi N of Newman, NM DP-994

Printed/Typed Name	Signature	Month	Day	Year
George Goins	George Goins	1	30	96

GENERATOR | TRANSPORTER | FACILITY

GENERATOR'S COPY

CAT SCALE®

THE CAT SCALE GUAR

The CAT Scale Company guarantees that our scales will give an accurate weight. What makes us different from other scale companies is that we back up our guarantee with cash.

"WEIGH WHAT WE SAY OR WE PAY"

If you get an overweight fine from the state after one of our CAT Scales showed a legal weight, we will immediately check our scale and we will:

(1) Reimburse you for the cost of the overweight fine if our scale is wrong, OR

(2) A representative of CAT Scale Company will appear in court WITH the driver as an expert witness if we believe our scale was correct.

IF YOU SHOULD GET AN OVERWEIGHT FINE, YOU SHOULD DO THE FOLLOWING TO GET THE PROBLEM RESOLVED:

1) Post bond and request a court date.
2) Call the CAT Scale location where you got the weigh ticket in question and inform them of the fine, or call CAT Scale Company direct during normal business hours.
3) IMMEDIATELY send a copy of the citation, CAT Scale Ticket, your name, company, address, and phone number to CAT Scale.

RULES AND CLAIM FORM ON REVERSE SIDE

CERTIFIED AUTOMATED TRUCK SCALE

CAT SCALE COMPANY
P.O. BOX 630
WALCOTT, IA 52773
(319) 284-6263

"The four weights shown below are separate weights. The GROSS WEIGHT is the CERTIFIED WEIGHT and was weighed on a full length platform scale."

DATE 01/30/96

STEER AXLE 10160 lb

DRIVE AXLE 37020 lb

TRAILER AXLE 33800 lb

GROSS WEIGHT 80980 lb

32740
48240

SCALE LOCATION
UNOCAL 76
I10 AND EXIT 37
EL PASO TX

PUBLIC WEIGHMASTER'S CERTIFICATE OF WEIGHT & MEASURE

DEPARTMENT OF AGRICULTURE • TEXAS •

This is to certify that the following merchandise was weighed, counted, or measured by a public weigher, and when properly signed shall be prima facie evidence of the accuracy of the weight shown as prescribed by law.

LIVESTOCK, PRODUCE, PROPERTY, COMMODITY, OR ARTICLE WEIGHED _____

COMPANY Rhesus TRACTOR # 530 TRAILER # _____

WEIGHER SIGNATURE AND LICENSE NUMBER Mary O FEE 7.00 FULL WEIGH TICKET # _____ (IF REWEIGH)

0131673
TICKET NUMBER

DRIVER IN TRUCK UNLESS CHECKED HERE ___ CAT 58

CAT SCALE® FORM TEXAS 5/94

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.

Manifest Document No. R01011

2. Page 1 of 1

550-111

Generator's Name and Mailing Address

Holloman AFB
Holloman AFB, NM

49 CES/CEV

SLMU 28

4. Generator's Phone (505) 475-3275

5. Transporter 1 Company Name: Rhino Environmental Services

6. US EPA ID Number: N/A

7. Transporter 2 Company Name

8. US EPA ID Number

9. Designated Facility Name and Site Address

Rhino Environmental Services—UP-994
1 Mile Norht of Newman, NM
Newman, NM

10. US EPA ID Number

A. Transporter's Phone

B. Transporter's Phone 505-392-4498

C. Facility's Phone 505-392-4498

11. Waste Shipping Name and Description	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
a. Hydrocarbon Contaminated Soils	1	Bulk	43,290	lbs
b.				
c.				
d.				

D. Additional Descriptions for Materials Listed Above

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name: [illegible]

Signature: [illegible]

Month 01 Day 31 Year 96

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: Tim Shannon

Signature: [illegible]

Month 01 Day 31 Year 96

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

19. Discrepancy Indication Space

Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Rhino Environmental Services Inc. N of Newman, NM

Printed/Typed Name: [illegible]

Signature: [illegible]

Month 01 Day 31 Year 96

GENERATOR — TRANSPORTER — FACILITY

GENERATOR'S COPY

12-BLS-C5 Rev. 4/94

№ 10909

STATE CERTIFICATE OF WEIGHTS AND MEASURES

DRIVER'S WEIGHT CERTIFICATE

NAME OF CARRIER (BEKINS MOVING & STGE.) (BEKINS VAN LINES)

OTHER CARRIER Ohio

Vehicle Identification SSD-111

Name of Shipper

Origin of Shipment Destination of Shipment

76010
32320

lbs. Gross — Gross weight of loaded vehicle, with driver only, thereon.

lbs. Tare — Tare weight of vehicle, with driver only thereon, including full gasoline tank and all necessary pads, chains, dollies, hand trucks, and other equipment.

lbs. Net — Net weight of the shipment.

THIS FORM PRESCRIBED BY INTERSTATE COMMERCE COMMISSION
EX PARTE - MC - 19
AS AMENDED EFFECTIVE JUNE 1, 1970

Signed M. Gaccaude
Weighmaster

The gross and tare weights were obtained at scales

NMDA APPROVED

GROSS	NAME OF SCALE OWNER	(BEKINS M&S) / (BEKINS MOVING & STGE.)
	LOCATION	2313 S. Valley Dr. Las Cruces, N. M. / US 70 W Alamogordo, N. M.
TARE	NAME OF SCALE OWNER	(BEKINS M&S) / (BEKINS MOVING & STGE.)
	LOCATION	2313 S. Valley Dr. Las Cruces, N. M. / US 70 W Alamogordo, N. M.

As shown by attached weight ticket(s) prepared by the weighmaster.

(Attach only gross weight ticket if tare weight is obtained from a weight ticket on shipments listed below.)

DRIVER ON ☑ OFF ☒

(LIST OF SHIPMENTS, IF ANY, ON VEHICLE AT TIME ABOVE WEIGHTS WERE OBTAINED)

SHIPPER	NET WEIGHT

I CERTIFY THE ABOVE ENTRIES ARE TRUE AND CORRECT.

DATE 1-31-96 B/L No. (Driver's Signature)

NON-HAZARDOUS WASTE MANIFEST	1. Generator's US EPA ID No.	Manifest Document No. R01012	2. Page 1 of 1	5-17-113

Generator's Name and Mailing Address
Holloman AFB
Holloman AFB, NM
4 9 CES/CEV
SWMU 38

4. Generator's Phone ( ) 475-5295

5. Transporter 1 Company Name	6. US EPA ID Number
Rhino Environmental Services	N/A

7. Transporter 2 Company Name	8. US EPA ID Number

9. Designated Facility Name and Site Address	10. US EPA ID Number
Rhino Environmental Services—DP-994 1 Mile Norht of Newman, NM Newman, NM	

A. Transporter's Phone
B. Transporter's Phone 505-392-4498
C. Facility's Phone 505-392-4498

11. Waste Shipping Name and Description	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
a. Hydrocarbon Contaminated Soils	1	Bulk	43850	lbs
b.				
c.				
d.				

D. Additional Descriptions for Materials Listed Above

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name	Signature	Month	Day	Year
Pamela Dillon	[illegible]	10	31	96

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
George Goins	George Goins	1	13	96

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year

19. Discrepancy Indication Space

J. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.
Rhino Env Ser Inc 1 mi N of Newman, NM DP-994

Printed/Typed Name	Signature	Month	Day	Year
George Goins	George Goins	1	13	96

GENERATOR
TRANSPORTER
FACILITY

GENERATOR'S COPY

1298 1 S 06 Rev 4/94

No. 10910

STATE CERTIFICATE OF WEIGHTS AND MEASURES

DRIVER'S WEIGHT CERTIFICATE

NAME OF CARRIER (BEKINS MOVING & STGE.) (BEKINS VAN LINES)

OTHER CARRIER

Vehicle Identification 5A07/613

Name of Shipper

Origin of Shipment

Destination of Shipment

78230 lbs.	Gross	Gross weight of loaded vehicle, with driver only, thereon.
32380 lbs.	Tare	Tare weight of vehicle, with driver only, thereon, including full gasoline tank and all necessary pads, chains, dollies, hand trucks, and other equipment.
lbs.	Net	Net weight of the shipment.

THIS FORM PRESCRIBED BY INTERSTATE COMMERCE COMMISSION EX PARTE NO. 115 AS AMENDED EFFECTIVE JUNE 1, 1970

Signed [illegible] Weighmaster

[redacted] gross and tare weights were obtained at scales

NMDA APPROVED

GROSS	NAME OF SCALE OWNER	(BEKINS M & S)	(BEKINS MOVING & STGE.)
	LOCATION	2315 S. Valley Dr. Las Cruces, N. M.	US 70 W Alamogordo, N. M.
TARE	NAME OF SCALE OWNER	(BEKINS M & S)	(BEKINS MOVING & STGE.)
	LOCATION	2315 S. Valley Dr. Las Cruces, N. M.	US 70 W Alamogordo, N. M.

As shown by attached weight ticket(s) prepared by the weighmaster.

(Attach only gross weight ticket if tare weight is obtained from a weight ticket on shipments listed below.)

DRIVER ON ☐ OFF ☒

(LIST OF SHIPMENTS, IF ANY, ON VEHICLE AT TIME ABOVE WEIGHTS WERE OBTAINED)

SHIPPER	NET WEIGHT

I CERTIFY THE ABOVE ENTRIES ARE TRUE AND CORRECT.

DATE 8-31-71 B/L No.

(Driver's Signature)

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.

Manifest Document No. [illegible]

2. Page 1 of 1

530-112

Generator's Name and Mailing Address
Holloman AFB
Holloman AFB, NM

49 CFR/HW

EWA 123

4. Generator's Phone ([illegible]) [illegible] - 5395

5. Transporter 1 Company Name: Rhino Environmental Services

6. US EPA ID Number: N/A

7. Transporter 2 Company Name

8. US EPA ID Number

9. Designated Facility Name and Site Address
Rhino Environmental Services—DP-994
1 Mile North of Newman, NM
Newman, NM

10. US EPA ID Number

A. Transporter's Phone

B. Transporter's Phone 505-392-4498

C. Facility's Phone 505-392-4898

11. Waste Shipping Name and Description	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
a. Hydrocarbon Contaminated Soils	1	Bulk	51,490	lbs
b.				
c.				
d.				

D. Additional Descriptions for Materials Listed Above

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

GENERATOR

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name: Frank Dillon | Signature: [illegible] | Month 1 Day 31 Year 96

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: Jim Cosper | Signature: Jim Cosper | Month 1 Day 31 Year 96

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name | Signature | Month | Day | Year

FACILITY

19. Discrepancy Indication Space

Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Rhino Env Ser Inc 1 mi N of Newman, NM DP 994

Printed/Typed Name: George Gains | Signature: George Gains | Month 1 Day 31 Year 96

12BLS-05 Rev 4/94

GENERATOR'S COPY

No. 14911

STATE CERTIFICATE OF WEIGHTS AND MEASURES

DRIVER'S WEIGHT CERTIFICATE

NAME OF CARRIER (BEKINS MOVING & STGE.) (BEKINS VAN LINES)

OTHER CARRIER Renato

Vehicle Identification 530/112

Name of Shipper

Origin of Shipment

Destination of Shipment

84230	lbs. Gross	Gross weight of loaded vehicle, with driver only, thereon.
32740	lbs. Tare	Tare weight of vehicle, with driver only, thereon, including full gasoline tank and all necessary pads, chains, dollies, hand trucks, and other equipment.
51490	lbs. Net	Net weight of the shipment.

THIS FORM PRESCRIBED BY INTERSTATE COMMERCE COMMISSION (49 C.F.R., MC-19.1) AS AMENDED EFFECTIVE JUNE 1, 1970

Signed [illegible] Weighmaster

The gross and tare weights were obtained at scales

NMDA APPROVED

GROSS	NAME OF SCALE OWNER	(BEKINS M & S)	(BEKINS MOVING & STGE.)
	LOCATION	2315 S. Valley Dr. Las Cruces, N. M.	US 70 W Alamogordo, N. M.
TARE	NAME OF SCALE OWNER	(BEKINS M & S)	(BEKINS MOVING & STGE.)
	LOCATION	2315 S. Valley Dr. Las Cruces, N. M.	US 70 W Alamogordo, N. M.

As shown by attached weight ticket(s) prepared by the weighmaster.

(Attach only gross weight ticket if tare weight is obtained from a weight ticket on shipments listed below.)

DRIVER: ON ☐ OFF ☑

(LIST OF SHIPMENTS, IF ANY, ON VEHICLE AT TIME ABOVE WEIGHTS WERE OBTAINED)

SHIPPER	NET WEIGHT

I CERTIFY THE ABOVE ENTRIES ARE TRUE AND CORRECT.

DATE 11-31-96 B/L No. Jim Cooper (Driver's Signature)

NON-HAZARDOUS WASTE MANIFEST	1. Generator's US EPA ID No.	Manifest Document No. 001014	2. Page 1 of 1	540-113

3. Generator's Name and Mailing Address
Holloman AFB
Holloman AFB, NM
4. Generator's Phone ( ) 496 5200

49 CES/CEV

Section 24

5. Transporter 1 Company Name	6. US EPA ID Number
Rhino Environmental Services	N/A
7. Transporter 2 Company Name	8. US EPA ID Number

9. Designated Facility Name and Site Address	10. US EPA ID Number
Rhino Environmental Services--DP-994 1 Mile North of Newman, NM Newman, NM	

A. Transporter's Phone
B. Transporter's Phone 505-392-4498
C. Facility's Phone 505-392-4898

11. Waste Shipping Name and Description	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
a. Hydrocarbon Contaminated Soils	1	Bulk	47,360	lbs
b.				
c.				
d.				

D. Additional Descriptions for Materials Listed Above

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name	Signature	Month	Day	Year
Jennifer D Hosk	[signature]	2	1	96

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
George Goins	George Goins	2	1	96

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.
Rhino Env Ser Inc 1 mi N of Newman NM DP-994

Printed/Typed Name	Signature	Month	Day	Year
George Goins	George Goins	2	1	96

GENERATOR → TRANSPORTER → FACILITY

GENERATOR'S COPY

12-BLS-65 Rev. 4/94

MC 10913 STATE CERTIFICATE OF WEIGHTS AND MEASURES

DRIVER'S WEIGHT CERTIFICATE

NAME OF CARRIER (BEKINS MOVING & STGE.) (BEKINS VAN LINES)

OTHER CARRIER (Ehrin)

Vehicle Identification 540-113

Name of Shipper

Origin of Shipment Destination of Shipment

79740 lbs. Gross — Gross weight of loaded vehicle, with driver only, thereon.

32380 lbs. Tare — Tare weight of vehicle, with driver only, thereon, including full gasoline tank and all necessary pads, chains, dollies, hand trucks, and other equipment.

lbs. Net — Net weight of the shipment.

THIS FORM PRESCRIBED BY INTERSTATE COMMERCE COMMISSION
EX PARTE - MC - 19
AS AMENDED EFFECTIVE JUNE 1, 1970

Signed M. Paracoude
Weighmaster

The gross and tare weights were obtained of scales

NMDA APPROVED

GROSS	NAME OF SCALE OWNER	(BEKINS M & S)	(BEKINS MOVING & STGE.)
	LOCATION	2315 S. Valley Dr. Las Cruces, N. M.	US 70 W Alamogordo, N. M.
TARE	NAME OF SCALE OWNER	(BEKINS M & S)	(BEKINS MOVING & STGE.)
	LOCATION	2315 S. Valley Dr. Las Cruces, N. M.	US 70 W Alamogordo, N. M.

As shown by attached weight ticket(s) prepared by the weighmaster.
(Attach only gross weight ticket if tare weight is obtained from a weight ticket on shipments listed below.)

DRIVER ON ☐ OFF ☒

(LIST OF SHIPMENTS, IF ANY, ON VEHICLE AT TIME ABOVE WEIGHTS WERE OBTAINED)

SHIPPER	NET WEIGHT

I CERTIFY THE ABOVE ENTRIES ARE TRUE AND CORRECT.

DATE 2-1-96 B/L No. (Driver's Signature)

16

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.

Manifest Document No. R01016

2. Page 1 of 1

3. Generator's Name and Mailing Address
Holloman AFB
Holloman AFB, NM 49 CES/CEV

4. Generator's Phone (505) 475-5395

SUMUSX

5. Transporter 1 Company Name
Rhino Environmental Services

6. US EPA ID Number
N/A

7. Transporter 2 Company Name

8. US EPA ID Number

9. Designated Facility Name and Site Address
Rhino Environmental Services--DP-994
1 Mile Norht of Newman, NM
Newman, NM

10. US EPA ID Number

A. Transporter's Phone

B. Transporter's Phone 505-392-4498

C. Facility's Phone 505-392-4898

11. Waste Shipping Name and Description	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
a. Hydrocarbon Contaminated Soils	1	Bulk	38,730	lb.
b.				
c.				
d.				

D. Additional Descriptions for Materials Listed Above

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name: Jennifer D Husle
Signature: Jennifer D Husle
Month 12 Day 01 Year 94

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: TIM SHANNON
Signature: Tim Shannon
Month 02 Day 01 Year 96

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name
Signature
Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.
Rhino Env Ser Inc 1 mi N of Newman, NM DP-994

Printed/Typed Name: George Goins
Signature: George Goins
Month 02 Day 01 Year 96

GENERATOR

TRANSPORTER

FACILITY

12-BLS-C5 Rev. 4/94

GENERATOR'S COPY

№ 10915 STATE CERTIFICATE OF WEIGHTS AND MEASURES

DRIVER'S WEIGHT CERTIFICATE

NAME OF CARRIER (BEKINS MOVING & STGE.) (BEKINS VAN LINES)

OTHER CARRIER Ohio

Vehicle Identification 550-111

Name of Shipper

Origin of Shipment Destination of Shipment

71050
32320
38320

lbs. Gross — Gross weight of loaded vehicle, with driver only, thereon.

lbs. Tare — Tare weight of vehicle, with driver only, thereon, including full gasoline tank and all necessary pads, chains, dollies, hand trucks, and other equipment.

lbs. Net — Net weight of the shipment.

THIS FORM PRESCRIBED BY INTERSTATE COMMERCE COMMISSION EX PARTE MC 19 AS AMENDED EFFECTIVE JUNE 1, 1970

Signed M. Patterson
Weighmaster

[redacted] gross and tare weights were obtained at scales

GROSS	NAME OF SCALE OWNER	(BEKINS M & S)	(BEKINS MOVING & STG
	LOCATION	2315 S. Valley Dr. Las Cruces, N. M.	US 70 W Alamogordo, N. M.
TARE	NAME OF SCALE OWNER	(BEKINS M & S)	(BEKINS MOVING & STGE)
	LOCATION	2315 S. Valley Dr. Las Cruces, N. M.	US 70 W Alamogordo, N. M.

[redacted]

As shown by attached weight ticket(s) prepared by the weighmaster.

(Attach only gross weight ticket if tare weight is obtained from a weight ticket on shipments listed below.)

DRIVER ON ☐ OFF ☑

(LIST OF SHIPMENTS, IF ANY, ON VEHICLE AT TIME ABOVE WEIGHTS WERE OBTAINED)

SHIPPER	NET WEIGHT

I CERTIFY THE ABOVE ENTRIES ARE TRUE AND CORRECT.

DATE 2-1-96 B/L No. (Driver's Signature)

APPENDIX A

SWMU 132

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.

Manifest Document No.

2. Page 1 of 1

14

Generator's Name and Mailing Address

49 CES/CEV
Holloman Air Force Base
Holloman AFB, NM

4. Generator's Phone (505) 475-5396

5. Transporter 1 Company Name: Bellio Trucking

6. US EPA ID Number: N/A

A. Transporter's Phone: (303) 426-9629

7. Transporter 2 Company Name

8. US EPA ID Number

B. Transporter's Phone

9. Designated Facility Name and Site Address
Highway 36 Land Development Co
10555 E. Highway 36
Deer Trail, CO 80105

10. US EPA ID Number: C O D 9 9 1 3 0 0 4 8 4

C. Facility's Phone: (800) 392-1036

11. Waste Shipping Name and Description	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
a. Hydrocarbon Contaminated Soil	1	BULK	10	CY
b.				
c.				
d.				

D. Additional Descriptions for Materials Listed Above

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

Waste Stream #13213

Non-Hazardous Materials

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name: WARREN NEFF | Signature: Warren Neff | Month 12 | Day 12 | Year 97

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: [illegible] | Signature: [illegible] | Month 12 | Day 13 | Year 97

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name | Signature | Month | Day | Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name | Signature | Month | Day | Year

GENERATOR

TRANSPORTER

FACILITY

GENERATOR'S COPY

Printed by DUPLICATE PRINTING PRESS, INC.
Neenah, WI 54956-0368

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.

Manifest Document No.

2. Page 1 of 1 | 7 18

Generator's Name and Mailing Address

40 CES/CEV
Holloman Air Force Base
Holloman AFB, NM

4. Generator's Phone (505) 475-5396

5. Transporter 1 Company Name: Bellio Trucking

6. US EPA ID Number: N/A

A. Transporter's Phone: (303) 426-2629

7. Transporter 2 Company Name

8. US EPA ID Number

B. Transporter's Phone

9. Designated Facility Name and Site Address

Highway 36 Land Development Co
108555 E. Highway 36
Deer Trail, CO 80105

10. US EPA ID Number: CORD991300042

C. Facility's Phone: (800) 392-1036

11. Waste Shipping Name and Description	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
a. Hydrocarbon Contaminated Soil	1	BULK	10	CY
b.				
c.				
d.				

. Additional Descriptions for Materials Listed Above

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

Waste Stream #13213

Non-Hazardous Materials

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name: WARREN NEFF | Signature: Warren Neff | Month 12 Day 12 Year 97

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: [illegible] Gonzales | Signature: [illegible] | Month 12 Day 13 Year 97

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name | Signature | Month Day Year

19. Discrepancy Indication Space

). Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name | Signature | Month Day Year

GENERATOR'S COPY

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: . . . . . .

Manifest Document No.: [illegible]

2. Page 1 of 1 16

Generator's Name and Mailing Address

49 CES/CEV
Holloman Air Force Base
Holloman AFB, NM

OT-16/[illegible]-132
P #1

4. Generator's Phone (505) 475-5396

5. Transporter 1 Company Name: Pellio Trucking

6. US EPA ID Number: N/A . . . . . .

A. Transporter's Phone: (303) 426-9629

7. Transporter 2 Company Name:

8. US EPA ID Number: . . . . . .

B. Transporter's Phone:

9. Designated Facility Name and Site Address

Highway 36 Land Development Co
108555 E. Highway 36
Deer Trail, CO 80105

10. US EPA ID Number: C·O·D·9·9·1·3·0·0·4·8·4

C. Facility's Phone: (800) 392-1036

11. Waste Shipping Name and Description	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
a. Hydrocarbon Contaminated Soil	1	BULK	13	CY
b.				
c.				
d.				

Additional Descriptions for Materials Listed Above

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

Waste Stream #13213

Non-Hazardous Materials

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name: WARREN NEFF | Signature: Warren Neff | Month 12 | Day 12 | Year 97

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: [illegible] | Signature: [illegible] | Month [illegible] | Day [illegible] | Year [illegible]

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name: | Signature: | Month . | Day . | Year .

19. Discrepancy Indication Space

F

I. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name: | Signature: | Month . | Day . | Year .

GENERATOR

TRANSPORTER

GENERATOR'S COPY

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.

Manifest Document No.

2. Page 1 of 13

Generator's Name and Mailing Address

49 CES/CEV
Holloman Air Force Base
Holloman AFB, NM

4. Generator's Phone ( ) 505 475-5396

5. Transporter 1 Company Name: Bellie Trucking

6. US EPA ID Number: N/A

A. Transporter's Phone: (303) 426-9629

7. Transporter 2 Company Name

8. US EPA ID Number

B. Transporter's Phone

9. Designated Facility Name and Site Address

Highway 36 Land Development Co
108555 E. Highway 36
Deer Trail, CO 80105

10. US EPA ID Number: C O D 1 2 0 0 4 5 4

C. Facility's Phone: (800) 392-1036

11. Waste Shipping Name and Description	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
a. Hydrocarbon Contaminated Soil	1	PUER	5	CY
b.				
c.				
d.				

Additional Descriptions for Materials Listed Above

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

Waste Stream #13213

Non-Hazardous Materials

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name: WARREN NEIF — Signature: Warren Neif — Month 12 Day 12 Year 97

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: Jim Price — Signature: Jim Price — Month 12 Day 13 Year 97

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name — Signature — Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name — Signature — Month Day Year

GENERATOR'S COPY

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.

Manifest Document No.

2. Page 1 of 17

Generator's Name and Mailing Address

40 CES/CEV
Holloman Air Force Base
Holloman AFB, NM

T-16/2.1.10-132
SP #1

4. Generator's Phone (505) 475-5366

5. Transporter 1 Company Name: Pellie Trucking

6. US EPA ID Number: N/A

A. Transporter's Phone: (303) 426-9629

7. Transporter 2 Company Name

8. US EPA ID Number

B. Transporter's Phone

9. Designated Facility Name and Site Address

Highway 36 Land Development Co
108555 E. Highway 36
Deer Trail, CO 80105

10. US EPA ID Number: C O D 9 8 1 3 0 4 8 4

C. Facility's Phone: (800) 392-1036

11. Waste Shipping Name and Description	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
a. Hydrocarbon Contaminated Soil	1	BULK	15	Y
b.				
c.				
d.				

Additional Descriptions for Materials Listed Above

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

Waste Stream #13213

Non-Hazardous Materials

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name: WARREN NEFF — Signature: Warren Neff — Month 12 Day 12 Year 97

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: TEDDY PERRY — Signature: Teddy Perry — Month 12 Day 3 Year 97

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name — Signature — Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name — Signature — Month Day Year

GENERATOR'S COPY

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.

Manifest Document No.

2. Page 1 of 1

VT9

Generator's Name and Mailing Address

49 CES/CEV
Holloman Air Force Base
Holloman AFB, NM

4. Generator's Phone (505) 475-5296

5. Transporter 1 Company Name: Bellio Trucking

6. US EPA ID Number

A. Transporter's Phone: (303) 426-9629

7. Transporter 2 Company Name

8. US EPA ID Number

B. Transporter's Phone

9. Designated Facility Name and Site Address

Highway 36 Land Development Co
108555 E. Highway 36
Deer Trail, CO 80105

10. US EPA ID Number: C O D 9 9 1 3 0 0 4 5 4

C. Facility's Phone: (800) 392-1036

11. Waste Shipping Name and Description	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
a. Hydrocarbon Contaminated Soil	1	BULK	19	CY
b.				
c.				
d.				

Additional Descriptions for Materials Listed Above

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

Waste Stream #13213

Non-Hazardous Materials

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name: WARREN NEFF | Signature: Warren Neff | Month 2 | Day 12 | Year 97

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: MARK DIAZ/A | Signature: [illegible] | Month 2 | Day 17 | Year 97

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name | Signature | Month | Day | Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name | Signature | Month | Day | Year

GENERATOR'S COPY

APPENDIX A

AOC-A

NON-HAZARDOUS WASTE MANIFEST	1. Generator's US EPA ID No.	2. Manifest Document No. R01413	2. Page 1 of 1	530-112

3. Generator's Name and Mailing Address: Holloman Air Force Base, Holloman AFB, NM — 49CES/CEV

SWMU AOC-A SP #1

4. Generator's Phone: (505) 475-5395

5. Transporter 1 Company Name	6. US EPA ID Number
Rhino Environmental Services	N/A
7. Transporter 2 Company Name	8. US EPA ID Number

9. Designated Facility Name and Site Address	10. US EPA ID Number
Rhino Environmental Services DP-1051 1 Mile NW of Newmen, NM Section 22.3, T26S, R6E, Otero County	

A. Transporter's Phone

B. Transporter's Phone 505-392-4608

C. Facility's Phone 505-392-4608

GENERATOR

11. Waste Shipping Name and Description	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
a. Hydrocarbon Contaminated Soil			~~75,000~~ 42720	LBS
b.				
c.				
d.				

D. Additional Descriptions for Materials Listed Above: Non-Hazardous Materials

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information: CELL "M"

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste

Printed/Typed Name	Signature	Month	Day	Year
Warren Nutt	[illegible]	11	11	96

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
[illegible]	[illegible]			

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name	Signature	Month	Day	Year
George Goins	George Goins	11	11	96

GENERATOR'S COPY

MATERIAL TICKET

JOBE Concrete Products Inc.
#1 McKELLIGON CANYON RD.
EL PASO, TEXAS 79930
(915) 565-4681

580541

JOB NO.

DATE 11-11-96 TRUCK NO. 530 DRIVER

CUSTOMER RHINO

DELIVER TO

PURCHASE ORDER NO.

TYPE, SIZE OR QUALITY

- ☐ BUILDING STONE
- ☐ CRUSHED GRAVEL
- ☐ CONCRETE SAND
- ☐ ARROYO STONE
- ☐ MORTAR SAND
- ☐ SCREENINGS
- ☒ OTHER SCALE

GROSS 79220
TARE 33000
NET 46220

QUANTITY	UNIT PRICE	AMOUNT
23.11		

BY SIGNING BELOW, PURCHASER AGREES TO BE BOUND TO TERMS ON REVERSE SIDE.

RECEIVED BY

DELIVERY

TAX

TOTAL

THANK - YOU

see terms and conditions reverse side

DRIVER

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.

Manifest Document No. R01414

2. Page 1 of 1

530-112-

3. Generator's Name and Mailing Address

Holloman Air Force Base 49 CES/CEV
Holloman AFB, NM

SWMU ACC-
SP# 1

4. Generator's Phone (505) 475-5395

5. Transporter 1 Company Name: Rhino Environmental Services

6. US EPA ID Number: N/A

7. Transporter 2 Company Name

8. US EPA ID Number

9. Designated Facility Name and Site Address

Rhino Environmental Services DP-1051
1 Mile NW of Newman, NM
Section 22.3, T26S, R6E, Otero County

10. US EPA ID Number

A. Transporter's Phone

B. Transporter's Phone 505-392-4498

C. Facility's Phone 505-392-4898

11. Waste Shipping Name and Description	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
a. Hydrocarbon Contaminated Soils	1	Bulk	46,220	
b.				
c.				
d.				

D. Additional Descriptions for Materials Listed Above

Non-Hazardous Materials

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

CELL "M"

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name: WARREN NEFF | Signature: [signature] | Month 11 Day 11 Year 96

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: Dulces N. Gutierrez | Signature: [signature] | Month 11 Day 11 Year 96

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name | Signature | Month | Day | Year

19. Discrepancy Indication Space

Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name: George Gomez | Signature: [signature] | Month | Day | Year 11 11 96

GENERATOR | TRANSPORTER | FACILITY

ORIGINAL - RETURN TO GENERATOR

MATERIAL TICKET

MC Combs

JOBE Concrete Products Inc.
41 McKELLIGON CANYON RD.
EL PASO, TEXAS 79930
(915) 565-4681

JOBE

580532

JOB NO. _____

DATE 11-11-96 TRUCK NO. 530-112 DRIVER _____

CUSTOMER RHINO

DELIVER TO _____

PURCHASE ORDER NO. _____

TYPE, SIZE OR QUALITY

- ☐ BUILDING STONE
- ☐ CONCRETE SAND
- ☐ MORTAR SAND
- ☐ CRUSHED GRAVEL
- ☐ ARROYO STONE
- ☐ SCREENINGS
- ☒ OTHER SCALE

GROSS 75720

TARE _____

NET _____

QUANTITY	UNIT PRICE	AMOUNT

BY SIGNING BELOW, PURCHASER AGREES TO BE BOUND TO TERMS ON REVERSE SIDE.

RECEIVED BY _____

DELIVERY _____

TAX _____

TOTAL _____

THANK - YOU

see terms and conditions reverse side

DRIVER

Published by J.J. KELLER & ASSOCIATES, INC., Neenah, WI 54957-0368 • 1-800-327-6336

NON-HAZARDOUS WASTE MANIFEST	1. Generator's US EPA ID No.	Manifest Document No. R01415	2. Page 1 of 1	530-112

3. Generator's Name and Mailing Address

Holloman Air Force Base 49 CES/CEV
Holloman AFB, NM

SWMU 36 SP#1
SWMU AOC-A SP#1

4. Generator's Phone 505 475-5395

5. Transporter 1 Company Name	6. US EPA ID Number
Rhino Environmental Services	N/A
7. Transporter 2 Company Name	8. US EPA ID Number

9. Designated Facility Name and Site Address	10. US EPA ID Number
Rhino Environmental Services DP-1051 1 Mile NW of Newman, NM Section 22.3, T26S, R6E, Otero County	

A. Transporter's Phone
B. Transporter's Phone 505-392-4498
C. Facility's Phone 505-392-4898

11. Waste Shipping Name and Description	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
a. Hydrocarbon Contaminated Soils	1	Bulk	40,760	
b.				
c.				
d.				

D. Additional Descriptions for Materials Listed Above

Non-Hazardous Materials

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

CELL "M"

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name	Signature	Month	Day	Year
WARREN NEFF	Warren Neff	11	12	96

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
Dulces M. Gutierrez	Dulces M. Gutierrez	11	12	96

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name	Signature	Month	Day	Year
George Goins	George Goins	11	12	96

GENERATOR
TRANSPORTER
FACILITY

ORIGINAL – RETURN TO GENERATOR

No. 12653

STATE CERTIFICATE OF WEIGHTS AND MEASURES

DRIVER'S WEIGHT CERTIFICATE

NAME OF CARRIER (BEKINS MOVING & STGE.) (BEKINS VAN LINES)

OTHER CARRIER Rhino

Vehicle Identification 530-112

Name of Shipper

Origin of Shipment Destination of Shipment

73760
33000
40760

lbs. Gross — Gross weight of loaded vehicle, with driver only, thereon.

lbs. Tare — Tare weight of vehicle, with driver only, thereon, including full gasoline tank and all necessary pads, chains, dollies, hand trucks, and other equipment.

lbs. Net — Net weight of the shipment.

Signed M. Patrcaude
Weighmaster

THIS FORM PRESCRIBED BY INTERSTATE COMMERCE COMMISSION
EX PARTE MC - 19
AS AMENDED EFFECTIVE JUNE 1, 1970

The gross and tare weights were obtained at scales

NMDA APPROVED

GROSS	NAME OF SCALE OWNER	(BEKINS M & S) /	(BEKINS MOVING & STGE.)
	LOCATION	2315 S. Valley Dr. Las Cruces, N. M. /	US 70 W Alamogordo, N. M.
TARE	NAME OF SCALE OWNER	(BEKINS M & S) /	(BEKINS MOVING & STGE.)
	LOCATION	2315 S. Valley Dr. Las Cruces, N. M. /	US 70 W Alamogordo, N. M.

As shown by attached weight ticket(s) prepared by the weighmaster.

(Attach only gross weight ticket if tare weight is obtained from a weight ticket on shipments listed below.)

DRIVER ON ☐ OFF ☒

(LIST OF SHIPMENTS, IF ANY, ON VEHICLE AT TIME ABOVE WEIGHTS WERE OBTAINED)

SHIPPER	NET WEIGHT

I CERTIFY THE ABOVE ENTRIES ARE TRUE AND CORRECT.

DATE 11-12-96 B/L No.

Dwlas Stuting (Driver's Signature)

Please print or type
(Form designed for use on elite (12-pitch) typewriter.)

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.

Manifest Document No. 501416

2. Page 1 of

530-112

3. Generator's Name and Mailing Address

Holloman Air Force Base 49 CES/CEV
Holloman AFB, NM

SNMMLAGC-A SP#1

4. Generator's Phone 505-475-5395

5. Transporter 1 Company Name

Rhino Environmental Services

6. US EPA ID Number

N/A

7. Transporter 2 Company Name

8. US EPA ID Number

9. Designated Facility Name and Site Address

Rhino Environmental Services DF-105
1 Mile NW of Newman, NM
Section 22.3, T26S, R6E, Otero County

10. US EPA ID Number

A. Transporter's Phone

B. Transporter's Phone 505-392-4498

C. Facility's Phone 505-392-4398

11. Waste Shipping Name and Description	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
a. Hydrocarbon Contaminated Soils			53,660	
b.				
c.				
d.				

Additional Descriptions for Materials Listed Above

Non-Hazardous Materials

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

CERL "M"

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name: WARREN NEFF
Signature: Warren Neff
Month 11 Day 12 Year 86

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: Dulces M Gutierrez
Signature: Dulces M Gutierrez
Month 11 Day 12 Year 86

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name
Signature
Month Day Year

19. Discrepancy Indication Space

Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19

Printed/Typed Name: George Goins
Signature: George Goins
Month 11 Day 12 Year 86

GENERATOR
TRANSPORTER
FACILITY

12-BLS-C5 Rev. 4/94

ORIGINAL – RETURN TO GENERATOR

№ 12655 STATE CERTIFICATE OF WEIGHTS AND MEASURES

DRIVER'S WEIGHT CERTIFICATE

NAME OF CARRIER (BEKINS MOVING & STGE.) (BEKINS VAN LINES)

OTHER CARRIER RHINO

Vehicle Identification 530/112

Name of Shipper

Origin of Shipment Destination of Shipment

86060 lbs. Gross — Gross weight of loaded vehicle, with driver only, thereon.

33000 lbs. Tare — Tare weight of vehicle, with driver only, thereon, including full gasoline tank and all necessary pads, chains, dollies, hand trucks, and other equipment.

53,060 lbs. Net — Net weight of the shipment.

Signed Weighmaster

THIS FORM PRESCRIBED BY INTERSTATE COMMERCE COMMISSION
EX PARTE - MC - 19
AS AMENDED EFFECTIVE JUNE 1, 1970

The gross and tare weights were obtained at scales NMDA APPROVED

GROSS	NAME OF SCALE OWNER	(BEKINS M & S) /	(BEKINS MOVING & STGE.)
	LOCATION	2315 S. Valley Dr. Las Cruces, N. M. /	US 70 W Alamogordo, N. M.
TARE	NAME OF SCALE OWNER	(BEKINS M & S) /	(BEKINS MOVING & STGE.)
	LOCATION	2315 S. Valley Dr. Las Cruces, N. M. /	US 70 W Alamogordo, N. M.

As shown by attached weight ticket(s) prepared by the weighmaster.

(Attach only gross weight ticket if tare weight is obtained from a weight ticket on shipments listed below.)

DRIVER ON ☐ OFF ☒

(LIST OF SHIPMENTS, IF ANY, ON VEHICLE AT TIME ABOVE WEIGHTS WERE OBTAINED)

SHIPPER	NET WEIGHT

I CERTIFY THE ABOVE ENTRIES ARE TRUE AND CORRECT.

DATE 11-18-96 B/L No. (Driver's Signature)

NON-HAZARDOUS WASTE MANIFEST	1. Generator's US EPA ID No.	Manifest Document No. R01417	2. Page 1 of 1	530-112

Generator's Name and Mailing Address: 49CES/CEV
Hollomen Air Force Base
Hollomen AFB, NM

4. Generator's Phone (505) 475-5395

5. Transporter 1 Company Name: Rhino Environmental Services
6. US EPA ID Number: N/A

7. Transporter 2 Company Name
8. US EPA ID Number

9. Designated Facility Name and Site Address: Rhino Environmental Services DP-1051
1 Mile NW of Newman, NM
Section 22.3, T26S, R6E, Otero County
10. US EPA ID Number

A. Transporter's Phone
B. Transporter's Phone 505-392-4498
C. Facility's Phone 505-392-4898

11. Waste Shipping Name and Description	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
a. Hydrocarbon Contaminated Soils	1	Bulk	71,170	
b.				
c.				
d.				

D. Additional Descriptions for Materials Listed Above: Non-Hazardous Materials

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information: CELL III

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name: WARREN NEFF | Signature: Warren Neff | Month 11 Day 12 Year 96

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: Quiles N. Gutierrez | Signature: [illegible] | Month 11 Day 12 Year 96

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name | Signature | Month | Day | Year

19. Discrepancy Indication Space

I. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in item 19.

Printed/Typed Name: George Goins | Signature: George Goins | Month | Day | Year

GENERATOR

TRANSPORTER

FACILITY

GENERATOR'S COPY

STATE CERTIFICATE OF WEIGHTS AND MEASURES

DRIVER'S WEIGHT CERTIFICATE

(BEKINS MOVING & STGE.) (BEKINS VAN LINES)

Kiehn

Destination of Shipment

lbs. Gross — Gross weight of loaded vehicle, with driver only thereon.

lbs. Tare — Tare weight of vehicle, with driver only thereon, including full gasoline tank and all necessary pads, chains, dollies, hand trucks, and other equipment.

lbs. Net — Net weight of the shipment.

Signed _____ Weighmaster

THIS FORM PRESCRIBED BY INTERSTATE COMMERCE COMMISSION

The gross and tare weights were obtained at scales:

NMDA APPROVED

GROSS	NAME OF SCALE OWNER	(BEKINS M & S)	(BEKINS MOVING & STGE.)
	LOCATION	2315 S. Valley Dr. Las Cruces, N. M.	US 70 W Alamogordo, N. M.
TARE	NAME OF SCALE OWNER	(BEKINS M & S)	(BEKINS MOVING & STGE.)
	LOCATION	2315 S. Valley Dr. Las Cruces, N. M.	US 70 W Alamogordo, N. M.

As shown by attached weight ticket(s) prepared by the weighmaster.

(Attach only gross weight ticket if tare weight is obtained from a weight ticket on shipments listed below.)

DRIVER ON [ ] OFF [X]

(LIST OF SHIPMENTS, IF ANY, ON VEHICLE AT TIME ABOVE WEIGHTS WERE OBTAINED)

SHIPPER	NET WEIGHT

I CERTIFY THE ABOVE ENTRIES ARE TRUE AND CORRECT.

DATE 11-12-96 B/L No. _____ (Driver's Signature)

APPENDIX B

LABORATORY ANALYTICAL REPORTS

APPENDIX B

SWMU 3

NEI/GTEL
ENVIRONMENTAL LABORATORIES, INC.

Midwest Region
4211 May Avenue
Wichita, KS 67209
(316) 945-2624
(800) 633-7936
(316) 945-0506 (FAX)

September 17, 1996

Dan Holmquist
Foster Wheeler Environmental Corporation
241 Arkansas St. /Behind Rv Storage
Holloman A F B, NM 88330

RE:	GTEL Client ID:	FWH03FWH03
	Login Number:	W6090230
	Project ID (number):	
	Project ID (name):	HAFB/DO WAD/HOLLOMAN/NM

Dear Dan Holmquist:

Enclosed please find the analytical results for the samples received by GTEL Environmental Laboratories, Inc. on 09/14/96 under Chain-of-Custody Number(s) 44483.

A formal Quality Assurance/Quality Control (QA/QC) program is maintained by GTEL, which is designed to meet or exceed the EPA requirements. Analytical work for this project met QA/QC criteria unless otherwise stated in the footnotes. This report is to be reproduced only in full.

NEI/GTEL is certified by the State of Kansas under Certification Numbers E-103, E-1113.

If you have any questions regarding this analysis, or if we can be of further assistance, please call our Customer Service Representative.

Sincerely,
GTEL Environmental Laboratories, Inc.

Customer Service Manager

Terry R. Loucks
Laboratory Director

RECEIVED SEP 25 1996

ANALYTICAL RESULTS
Volatile Organics

GTEL Client ID: FWH03FWH03
Origin Number: W6090230
Project ID (number): FWH03FWH03
Project ID (name): HAFB/DO WAD/HOLLOMAN/NM

Method: EPA 8021A
Matrix: Aqueous

GTEL Sample Number	W6090230-01	--	--	--
Client ID	SWMU3-W-01	--	--	--
Date Sampled	09/13/96	--	--	--
Date Analyzed	09/16/96	--	--	--
Dilution Factor	1.00	--	--	--

Analyte	Reporting Limit	Units	Concentration:			
Benzene	0.5	ug/L	< 0.5	--	--	--
Toluene	1.0	ug/L	< 1.0	--	--	--
Ethylbenzene	1.0	ug/L	< 1.0	--	--	--
Xylenes (total)	2.0	ug/L	< 2.0	--	--	--

Notes:

Dilution Factor:

Dilution factor indicates the adjustments made for sample dilution.

EPA 8021A:

EPA 8021A: "Test Methods for Evaluating Solid Waste, Physical and Chemical Methods", SW-846, Third Edition, Revision 1, US EPA September 1994.

GTEL Client ID: FWH03FWH03 QUALITY CONTROL RESULTS
Login Number: W6090230 Volatile Organi
Project ID (number): FWH03FWH03 Method: EPA 802
Project ID (name): HAFB/DO WAD/HOLLOMAN/NM Matrix: ec

Surrogate Results

QC Batch No.	Reference	Sample ID	TFT	BFB
Method: EPA 8021A		Acceptability Limits:	80-120%	80-120%
091696GC17-1	CV0916962017	Calibration Verifi	99.6	99.5
091696GC17-11	MS09023001	Matrix Spike	99.5	101.
091696GC17-3	BW09169617	Method Blank Water	101.	99.9
091696GC17-4	LW09169617	Laboratory Control	102.	103.
091696GC17-7	DP09023001	Duplicate	97.4	95.7
--	09023001	SWMU3-W-01	98.8	99.9

Notes:
*: Indicates values outside of acceptability limits. See Nonconformance Summary.

GTEL Client ID: FWH03FWH03
Login Number: W6090230
Project ID (number): FWH03FWH03
Project ID (name): HAFB/DO WAD/HOLLOMAN/NM

QUALITY CONTROL RESULTS

Volatile Organi
Method: EPA 802
Matrix: Aqueo

Method Blank Results

QC Batch No: 091696GC17-3
Date Analyzed: 16-SEP-96

Analyte	Method:EPA 8021A	Concentration: ug/L
Benzene	< 0.500	
Toluene	< 1.00	
Ethylbenzene	< 1.00	
Xylenes (Total)	< 2.00	

Notes:

GTEL Client ID: FWH03FWH03 QUALITY CONTROL RESULTS
Login Number: W6090230 Volatile Organi
Project ID (number): FWH03FWH03 Method: EPA 802
Project ID (name): HAFB/DO WAD/HOLLOMAN/NM Matrix: ec

Calibration Verification Sample Summary

Analyte	Spike Amount	Check Sample Concentration	QC Percent Recovery	Acceptability Limits Recovery
EPA 8021A Units:ug/L	QC Batch:091696GC17-1			
Benzene	20.0	22.8	114.	85-115%
Toluene	20.0	22.5	113.	85-115%
Ethylbenzene	20.0	22.3	112.	85-115%
Xylenes (Total)	60.0	63.9	107.	85-115%

Notes:

GTEL Client ID: FWH03FWH03 QUALITY CONTROL RESULTS
Login Number: W6090230 Volatile Organ
Project ID (number): FWH03FWH03 Method: EPA 80
Project ID (name): HAFB/DO WAD/HOLLOMAN/NM Matrix: Aque

Laboratory Control Sample Summary

Analyte	Spike Amount	Check Sample Concentration	QC Percent Recovery	Acceptability Limits Recovery
EPA 8021A Units:ug/L	QC Batch:091696GC17-4			
Benzene	20.0	21.7	109.	80-120%
Toluene	20.0	21.0	105.	80-120%
Ethylbenzene	20.0	20.9	105.	80-120%
Xylenes (Total)	60.0	60.2	100.	80-120%

Notes:

GTEL Client ID: FWH03FWH03 QUALITY CONTROL RESULTS
Login Number: W6090230 Volatile Orgar
Project ID (number): FWH03FWH03 Method: EPA 8(
Project ID (name): HAFB/DO WAD/HOLLOMAN/NM Matrix: ue

Duplicate Sample Results

Analyte	Original Concentration	Duplicate Concentration	RPD, %	Acceptability Limits, %
EPA 8021A Units: ug/L	QC Batch: 091696GC17-7	GTEL Sample ID: W6090230-01		Client ID: SWMU3-W-
Benzene	< 0.500	< 0.500	NA	23.9
Toluene	< 1.00	< 1.00	NA	27.2
Ethylbenzene	< 1.00	< 1.00	NA	21.6
Xylenes (Total)	< 2.00	< 2.00	NA	22.0

Notes:

GTEL Client ID: FWH03FWH03
Login Number: W6090230
Project ID (number): FWH03FWH03
Project ID (name): HAFB/DO WAD/HOLLOMAN/NM

QUALITY CONTROL RESULTS

Volatile Orga
Method: EPA 8
Matrix: Aqu

Matrix Spike(MS) Results

GTEL Sample ID:W6090230-01 MS ID:MS09023001
Analysis Date: 16-SEP-96 17-SEP-96

Units: ug/L Analyte	Sample Conc.	Spike Added	MS Conc.	MS % Rec.	Acceptability Limits %Rec.
Benzene	< 0.5 (0.170)	20.0	19.8	98.2	80-120
Toluene	< 1.0 (0.000)	20.0	19.3	96.5	80-120
Ethylbenzene	< 1.0 (0.000)	20.0	18.9	94.5	80-120
Xylenes (Total)	< 2.0 (0.410)	60.0	54.3	89.8	80-120

Notes:
Values in parentheses in the sample concentration column are used for % recovery calculations.

NEI/GTEL
ENVIRONMENTAL LABORATORIES, INC.

Midwest Region
4211 May Avenue
Wichita, KS 67209
(316) 945-2624
(800) 633-7936
(316) 945-0506 (FAX)

October 11, 1996

Dan Holmquist
Foster Wheeler Environmental Corporation
241 Arkansas St. /Behind Rv Storage
Holloman A F B, NM 88330

RE: GTEL Client ID: FWH03FWH03
Login Number: W6090367
Project ID (number):
Project ID (name): HAFB/DO WAD/HOLLOMAN/NM

Dear Dan Holmquist:

Enclosed please find the analytical results for the samples received by GTEL Environmental Laboratories, Inc. on 09/21/96 under Chain-of-Custody Number(s) 47739.

A formal Quality Assurance/Quality Control (QA/QC) program is maintained by GTEL, which is designed to meet or exceed the EPA requirements. Analytical work for this project met QA/QC criteria unless otherwise stated in the footnotes. This report is to be reproduced only in full.

NEI/GTEL is certified by the U.S. Army Corp of Engineers Laboratory Validation, expiration date March 18, 1997.

If you have any questions regarding this analysis, or if we can be of further assistance, please call our Customer Service Representative.

Sincerely,
GTEL Environmental Laboratories, Inc.

John O. Sauber
QA/QC Manager for
Terry R. Loucks
Laboratory Director

ANALYTICAL RESULTS
Semivolatile Organics

GTEL Client ID: FWH03FWH03
Job Number: W6090367
Project ID (number): FWH03FWH03
Project ID (name): HAFB/DO WAD/HOLLOMAN/NM

Method: EPA 8270B
Matrix: Solids

GTEL Sample Number	W6090367-01	W6090367-02	W6090367-03	W6090367-04
Client ID	SWMU3-4-1	SWMU3-4-2	SWMU3-4-3	SWMU3-4-4
Date Sampled	09/19/96	09/19/96	09/19/96	09/19/96
Date Prepared	09/26/96	09/26/96	09/26/96	09/26/96
Date Analyzed	10/03/96	10/03/96	10/03/96	10/03/96
Dilution Factor	1.00	1.00	1.00	1.00

Analyte	Reporting Limit	Units	Concentration:Dry Weight			
2,4-Dinitrotoluene	330	ug/kg	< 330	< 330	< 330	< 330
Diethyl phthalate	330	ug/kg	< 330	< 330	< 330	< 330
4-Chlorophenyl phenyl ether	330	ug/kg	< 330	< 330	< 330	< 330
Fluorene	330	ug/kg	< 330	< 330	< 330	< 330
4-Nitroaniline	1700	ug/kg	< 1700	< 1700	< 1700	< 1700
4,6-Dinitro-2-methylphenol	1700	ug/kg	< 1700	< 1700	< 1700	< 1700
N-Nitrosodiphenylamine	330	ug/kg	< 330	< 330	< 330	< 330
4-Bromophenyl phenyl ether	330	ug/kg	< 330	< 330	< 330	< 330
Hexachlorobenzene	330	ug/kg	< 330	< 330	< 330	< 330
Pentachlorophenol	1700	ug/kg	< 1700	< 1700	< 1700	< 1700
Phenanthrene	330	ug/kg	< 330	< 330	< 330	< 330
Anthracene	330	ug/kg	< 330	< 330	< 330	< 330
Carbazole	330	ug/kg	< 330	< 330	< 330	< 330
Di[illegible]tyl phthalate	330	ug/kg	< 330	< 330	< 330	< 330
Fl[illegible]anthene	330	ug/kg	< 330	< 330	< 330	< 330
Pyrene	330	ug/kg	< 330	< 330	< 330	< 330
Butyl benzyl phthalate	330	ug/kg	< 330	< 330	< 330	< 330
3,3'-Dichlorobenzidine	670	ug/kg	< 670	< 670	< 670	< 670
Benzo(a)anthracene	330	ug/kg	< 330	< 330	< 330	< 330
Chrysene	330	ug/kg	< 330	< 330	< 330	< 330
bis(2-Ethylhexyl) phthalate	330	ug/kg	< 330	< 330	< 330	< 330
Di-n-octyl phthalate	330	ug/kg	< 330	< 330	< 330	< 330
Benzo(b)fluoranthene	330	ug/kg	< 330	< 330	< 330	< 330
Benzo(k)fluoranthene	330	ug/kg	< 330	< 330	< 330	< 330
Benzo(a)pyrene	330	ug/kg	< 330	< 330	< 330	< 330
Indeno(1,2,3-cd)pyrene	330	ug/kg	< 330	< 330	< 330	< 330
Dibenz(a,h)anthracene	330	ug/kg	< 330	< 330	< 330	< 330
Benzo(g,h,i)perylene	330	ug/kg	< 330	< 330	< 330	< 330
Percent Solids	--	%	71.6	75.5	80.8	79.2

Notes:

Dilution Factor:

Dilution factor indicates the adjustments made for sample dilution.

EPA 8270B:

"Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW-846, Third Edition including Update 2.

ANALYTICAL RESULTS
Semivolatile Organics

GTEL Client ID: FWH03FWH03
Login Number: W6090367
Project ID (number): FWH03FWH03
Project ID (name): HAFB/DO WAD/HOLLOMAN/NM

Method: EPA 8270B
Matrix: Solids

GTEL Sample Number	W6090367-05	W6090367-06	W6090367-07	W6090367-08
Client ID	SWMU3-4-5	SWMU3-4-6	SWMU3-4-7	SWMU3-4-8
Date Sampled	09/19/96	09/19/96	09/19/96	09/19/96
Date Prepared	09/26/96	09/26/96	09/26/96	09/26/96
Date Analyzed	10/03/96	10/03/96	10/04/96	10/03/96
Dilution Factor	1.00	1.00	1.00	1.00

Analyte	Reporting Limit	Units	Concentration:Dry Weight			
Phenol	330	ug/kg	< 330	< 330	< 330	< 330
bis(2-Chloroethyl) ether	330	ug/kg	< 330	< 330	< 330	< 330
2-Chlorophenol	330	ug/kg	< 330	< 330	< 330	< 330
1,3-Dichlorobenzene	330	ug/kg	< 330	< 330	< 330	< 330
1,4-Dichlorobenzene	330	ug/kg	< 330	< 330	< 330	< 330
Benzyl alcohol	670	ug/kg	< 670	< 670	< 670	< 670
1,2-Dichlorobenzene	330	ug/kg	< 330	< 330	< 330	< 330
2-Methylphenol	330	ug/kg	< 330	< 330	< 330	< 330
bis(2-Chloroisopropyl) ether	330	ug/kg	< 330	< 330	< 330	< 330
4-Methylphenol	330	ug/kg	< 330	< 330	< 330	< 330
N-Nitrosodi-n-propylamine	330	ug/kg	< 330	< 330	< 330	< 330
Hexachloroethane	330	ug/kg	< 330	< 330	< 330	< 330
Nitrobenzene	330	ug/kg	< 330	< 330	< 330	< 330
Isophorone	330	ug/kg	< 330	< 330	< 330	< 330
2-Nitrophenol	330	ug/kg	< 330	< 330	< 330	< 330
2,4-Dimethylphenol	330	ug/kg	< 330	< 330	< 330	< 330
Benzoic acid	1700	ug/kg	< 1700	< 1700	< 1700	< 1700
bis(2-Chloroethoxy)methane	330	ug/kg	< 330	< 330	< 330	< 330
2,4-Dichlorophenol	330	ug/kg	< 330	< 330	< 330	< 330
1,2,4-Trichlorobenzene	330	ug/kg	< 330	< 330	< 330	< 330
Naphthalene	330	ug/kg	< 330	< 330	< 330	< 330
4-Chloroaniline	330	ug/kg	< 330	< 330	< 330	< 330
Hexachlorobutadiene	330	ug/kg	< 330	< 330	< 330	< 330
4-Chloro-3-methylphenol	330	ug/kg	< 330	< 330	< 330	< 330
2-Methylnaphthalene	330	ug/kg	< 330	< 330	< 330	< 330
Hexachlorocyclopentadiene	330	ug/kg	< 330	< 330	< 330	< 330
2,4,6-Trichlorophenol	330	ug/kg	< 330	< 330	< 330	< 330
2,4,5-Trichlorophenol	330	ug/kg	< 330	< 330	< 330	< 330
2-Chloronaphthalene	330	ug/kg	< 330	< 330	< 330	< 330
2-Nitroaniline	1700	ug/kg	< 1700	< 1700	< 1700	< 1700
Dimethyl phthalate	330	ug/kg	< 330	< 330	< 330	< 330
Acenaphthylene	330	ug/kg	< 330	< 330	< 330	< 330
2,6-Dinitrotoluene	330	ug/kg	< 330	< 330	< 330	< 330
3-Nitroaniline	1700	ug/kg	< 1700	< 1700	< 1700	< 1700
Acenaphthene	330	ug/kg	< 330	< 330	< 330	< 330
2,4-Dinitrophenol	1700	ug/kg	< 1700	< 1700	< 1700	< 1700
4-Nitrophenol	1700	ug/kg	< 1700	< 1700	< 1700	< 1700
Dibenzofuran	330	ug/kg	< 330	< 330	< 330	< 330

ANALYTICAL RESULTS
Semivolatile Organics

Client ID: FWH03FWH03
Login Number: W6090367
Project ID (number): FWH03FWH03
Project ID (name): HAFB/DO WAD/HOLLOMAN/NM

Method: EPA 8270B
Matrix: Solids

GTEL Sample Number	W6090367-01	W6090367-02	W6090367-03	W6090367-04
Client ID	SWMU3-4-1	SWMU3-4-2	SWMU3-4-3	SWMU3-4-4
Date Sampled	09/19/96	09/19/96	09/19/96	09/19/96
Date Prepared	09/26/96	09/26/96	09/26/96	09/26/96
Date Analyzed	10/03/96	10/03/96	10/03/96	10/03/96
Dilution Factor	1.00	1.00	1.00	1.00

Analyte	Reporting Limit	Units	Concentration:Dry Weight			
Phenol	330	ug/kg	< 330	< 330	< 330	< 330
bis(2-Chloroethyl) ether	330	ug/kg	< 330	< 330	< 330	< 330
2-Chlorophenol	330	ug/kg	< 330	< 330	< 330	< 330
1,3-Dichlorobenzene	330	ug/kg	< 330	< 330	< 330	< 330
1,4-Dichlorobenzene	330	ug/kg	< 330	< 330	< 330	< 330
Benzyl alcohol	670	ug/kg	< 670	< 670	< 670	< 670
1,2-Dichlorobenzene	330	ug/kg	< 330	< 330	< 330	< 330
2-Methylphenol	330	ug/kg	< 330	< 330	< 330	< 330
bis(2-Chloroisopropyl) ether	330	ug/kg	< 330	< 330	< 330	< 330
4-Methylphenol	330	ug/kg	< 330	< 330	< 330	< 330
N-Nitrosodi-n-propylamine	330	ug/kg	< 330	< 330	< 330	< 330
Hexachloroethane	330	ug/kg	< 330	< 330	< 330	< 330
N[illegible]enzene	330	ug/kg	< 330	< 330	< 330	< 330
Isophorone	330	ug/kg	< 330	< 330	< 330	< 330
2-Nitrophenol	330	ug/kg	< 330	< 330	< 330	< 330
2,4-Dimethylphenol	330	ug/kg	< 330	< 330	< 330	< 330
Benzoic acid	1700	ug/kg	< 1700	< 1700	< 1700	< 1700
bis(2-Chloroethoxy)methane	330	ug/kg	< 330	< 330	< 330	< 330
2,4-Dichlorophenol	330	ug/kg	< 330	< 330	< 330	< 330
1,2,4-Trichlorobenzene	330	ug/kg	< 330	< 330	< 330	< 330
Naphthalene	330	ug/kg	< 330	< 330	< 330	< 330
4-Chloroaniline	330	ug/kg	< 330	< 330	< 330	< 330
Hexachlorobutadiene	330	ug/kg	< 330	< 330	< 330	< 330
4-Chloro-3-methylphenol	330	ug/kg	< 330	< 330	< 330	< 330
2-Methylnaphthalene	330	ug/kg	< 330	< 330	< 330	< 330
Hexachlorocyclopentadiene	330	ug/kg	< 330	< 330	< 330	< 330
2,4,6-Trichlorophenol	330	ug/kg	< 330	< 330	< 330	< 330
2,4,5-Trichlorophenol	330	ug/kg	< 330	< 330	< 330	< 330
2-Chloronaphthalene	330	ug/kg	< 330	< 330	< 330	< 330
2-Nitroaniline	1700	ug/kg	< 1700	< 1700	< 1700	< 1700
Dimethyl phthalate	330	ug/kg	< 330	< 330	< 330	< 330
Acenaphthylene	330	ug/kg	< 330	< 330	< 330	< 330
2,6-Dinitrotoluene	330	ug/kg	< 330	< 330	< 330	< 330
3-Nitroaniline	1700	ug/kg	< 1700	< 1700	< 1700	< 1700
Acenaphthene	330	ug/kg	< 330	< 330	< 330	< 330
2,4-Dinitrophenol	1700	ug/kg	< 1700	< 1700	< 1700	< 1700
4-Nitrophenol	1700	ug/kg	< 1700	< 1700	< 1700	< 1700
Dibenzofuran	330	ug/kg	< 330	< 330	< 330	< 330

ANALYTICAL RESULTS
Semivolatile Organics

GTEL Client ID: FWH03FWH03
Login Number: W6090367
Project ID (number): FWH03FWH03
Project ID (name): HAFB/DO WAD/HOLLOMAN/NM

Method: EPA 8270B
Matrix: Solids

GTEL Sample Number	W6090367-05	W6090367-06	W6090367-07	W6090367-08
Client ID	SWMU3-4-5	SWMU3-4-6	SWMU3-4-7	SWMU3-4-8
Date Sampled	09/19/96	09/19/96	09/19/96	09/19/96
Date Prepared	09/26/96	09/26/96	09/26/96	09/26/96
Date Analyzed	10/03/96	10/03/96	10/04/96	10/03/96
Dilution Factor	1.00	1.00	1.00	1.00

Analyte	Reporting Limit	Units	Concentration:Dry Weight			
2,4-Dinitrotoluene	330	ug/kg	< 330	< 330	< 330	< 330
Diethyl phthalate	330	ug/kg	< 330	< 330	< 330	< 330
4-Chlorophenyl phenyl ether	330	ug/kg	< 330	< 330	< 330	< 330
Fluorene	330	ug/kg	< 330	< 330	< 330	< 330
4-Nitroaniline	1700	ug/kg	< 1700	< 1700	< 1700	< 1700
4,6-Dinitro-2-methylphenol	1700	ug/kg	< 1700	< 1700	< 1700	< 1700
N-Nitrosodiphenylamine	330	ug/kg	< 330	< 330	< 330	< 330
4-Bromophenyl phenyl ether	330	ug/kg	< 330	< 330	< 330	< 330
Hexachlorobenzene	330	ug/kg	< 330	< 330	< 330	< 330
Pentachlorophenol	1700	ug/kg	< 1700	< 1700	< 1700	< 1700
Phenanthrene	330	ug/kg	< 330	< 330	< 330	< 330
Anthracene	330	ug/kg	< 330	< 330	< 330	< 330
Carbazole	330	ug/kg	< 330	< 330	< 330	< 330
Di-n-butyl phthalate	330	ug/kg	< 330	< 330	< 330	< 330
Fluoranthene	330	ug/kg	< 330	< 330	< 330	< 330
Pyrene	330	ug/kg	< 330	< 330	< 330	< 330
Butyl benzyl phthalate	330	ug/kg	< 330	< 330	< 330	< 330
3,3'-Dichlorobenzidine	670	ug/kg	< 670	< 670	< 670	< 670
Benzo(a)anthracene	330	ug/kg	< 330	< 330	< 330	< 330
Chrysene	330	ug/kg	< 330	< 330	< 330	< 330
bis(2-Ethylhexyl) phthalate	330	ug/kg	< 330	< 330	< 330	< 330
Di-n-octyl phthalate	330	ug/kg	< 330	< 330	< 330	< 330
Benzo(b)fluoranthene	330	ug/kg	< 330	< 330	< 330	< 330
Benzo(k)fluoranthene	330	ug/kg	< 330	< 330	< 330	< 330
Benzo(a)pyrene	330	ug/kg	< 330	< 330	< 330	< 330
Indeno(1,2,3-cd)pyrene	330	ug/kg	< 330	< 330	< 330	< 330
Dibenz(a,h)anthracene	330	ug/kg	< 330	< 330	< 330	< 330
Benzo(g,h,i)perylene	330	ug/kg	< 330	< 330	< 330	< 330
Percent Solids	--	%	73.4	73.7	94.1	77.9

Notes:

Dilution Factor:

Dilution factor indicates the adjustments made for sample dilution.

EPA 8270B:

"Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW-846, Third Edition including Update 2.

W6090367-07:

GC/MS Data indicates the presence of non-target compounds.

NEI/GTEL
ENVIRONMENTAL LABORATORIES, INC.

Midwest Region
4211 May Avenue
Wichita, KS 67209
(316) 945-2624
(800) 633-7936
(316) 945-0506 (FAX)

October 11, 1996

Dan Holmquist
Foster Wheeler Environmental Corporation
241 Arkansas St. /Behind Rv Storage
Holloman A F B, NM 88330

RE:	GTEL Client ID:	FWH03FWH03
	Login Number:	W6090367
	Project ID (number):	
	Project ID (name):	HAFB/DO WAD/HOLLOMAN/NM

Dear Dan Holmquist:

Enclosed please find the analytical results for the samples received by GTEL Environmental Laboratories, Inc. on 09/21/96 under Chain-of-Custody Number(s) 47739.

A formal Quality Assurance/Quality Control (QA/QC) program is maintained by GTEL, which is designed to meet or exceed the EPA requirements. Analytical work for this project met QA/QC criteria unless otherwise stated in the footnotes. This report is to be reproduced only in full.

NEI/GTEL is certified by the U.S. Army Corp of Engineers Laboratory Validation, expiration date March 18, 1997.

If you have any questions regarding this analysis, or if we can be of further assistance, please call our Customer Service Representative.

Sincerely,
GTEL Environmental Laboratories, Inc.

John O. Sauber
QA/QC Manager for
Terry R. Loucks
Laboratory Director

RECEIVED OCT 17 1996

ANALYTICAL RESULTS
Semivolatile Organics

GTEL Client ID: FWH03FWH03
Job Number: W6090367
Project ID (number): FWH03FWH03
Project ID (name): HAFB/DO WAD/HOLLOMAN/NM

Method: EPA 8270B
Matrix: Solids

GTEL Sample Number	W6090367-01	W6090367-02	W6090367-03	W6090367-04
Client ID	SWMU3-4-1	SWMU3-4-2	SWMU3-4-3	SWMU3-4-4
Date Sampled	09/19/96	09/19/96	09/19/96	09/19/96
Date Prepared	09/26/96	09/26/96	09/26/96	09/26/96
Date Analyzed	10/03/96	10/03/96	10/03/96	10/03/96
Dilution Factor	1.00	1.00	1.00	1.00

Analyte	Reporting Limit	Units	Concentration:Dry Weight			
Phenol	330	ug/kg	< 330	< 330	< 330	< 330
bis(2-Chloroethyl) ether	330	ug/kg	< 330	< 330	< 330	< 330
2-Chlorophenol	330	ug/kg	< 330	< 330	< 330	< 330
1,3-Dichlorobenzene	330	ug/kg	< 330	< 330	< 330	< 330
1,4-Dichlorobenzene	330	ug/kg	< 330	< 330	< 330	< 330
Benzyl alcohol	670	ug/kg	< 670	< 670	< 670	< 670
1,2-Dichlorobenzene	330	ug/kg	< 330	< 330	< 330	< 330
2-Methylphenol	330	ug/kg	< 330	< 330	< 330	< 330
bis(2-Chloroisopropyl) ether	330	ug/kg	< 330	< 330	< 330	< 330
4-Methylphenol	330	ug/kg	< 330	< 330	< 330	< 330
N-Nitrosodi-n-propylamine	330	ug/kg	< 330	< 330	< 330	< 330
Hexachloroethane	330	ug/kg	< 330	< 330	< 330	< 330
obenzene	330	ug/kg	< 330	< 330	< 330	< 330
ıophorone	330	ug/kg	< 330	< 330	< 330	< 330
2-Nitrophenol	330	ug/kg	< 330	< 330	< 330	< 330
2,4-Dimethylphenol	330	ug/kg	< 330	< 330	< 330	< 330
Benzoic acid	1700	ug/kg	< 1700	< 1700	< 1700	< 1700
bis(2-Chloroethoxy)methane	330	ug/kg	< 330	< 330	< 330	< 330
2,4-Dichlorophenol	330	ug/kg	< 330	< 330	< 330	< 330
1,2,4-Trichlorobenzene	330	ug/kg	< 330	< 330	< 330	< 330
Naphthalene	330	ug/kg	< 330	< 330	< 330	< 330
4-Chloroaniline	330	ug/kg	< 330	< 330	< 330	< 330
Hexachlorobutadiene	330	ug/kg	< 330	< 330	< 330	< 330
4-Chloro-3-methylphenol	330	ug/kg	< 330	< 330	< 330	< 330
2-Methylnaphthalene	330	ug/kg	< 330	< 330	< 330	< 330
Hexachlorocyclopentadiene	330	ug/kg	< 330	< 330	< 330	< 330
2,4,6-Trichlorophenol	330	ug/kg	< 330	< 330	< 330	< 330
2,4,5-Trichlorophenol	330	ug/kg	< 330	< 330	< 330	< 330
2-Chloronaphthalene	330	ug/kg	< 330	< 330	< 330	< 330
2-Nitroaniline	1700	ug/kg	< 1700	< 1700	< 1700	< 1700
Dimethyl phthalate	330	ug/kg	< 330	< 330	< 330	< 330
Acenaphthylene	330	ug/kg	< 330	< 330	< 330	< 330
2,6-Dinitrotoluene	330	ug/kg	< 330	< 330	< 330	< 330
3-Nitroaniline	1700	ug/kg	< 1700	< 1700	< 1700	< 1700
Acenaphthene	330	ug/kg	< 330	< 330	< 330	< 330
2,4-Dinitrophenol	1700	ug/kg	< 1700	< 1700	< 1700	< 1700
4-Nitrophenol	1700	ug/kg	< 1700	< 1700	< 1700	< 1700
nzofuran	330	ug/kg	< 330	< 330	< 330	< 330

ANALYTICAL RESULTS
Semivolatile Organics

GTEL Client ID: FWH03FWH03
Login Number: W6090367
Project ID (number): FWH03FWH03
Project ID (name): HAFB/DO WAD/HOLLOMAN/NM

Method: EPA 8270B
Matrix: Solids

GTEL Sample Number	W6090367-01	W6090367-02	W6090367-03	W6090367-04
Client ID	SWMU3-4-1	SWMU3-4-2	SWMU3-4-3	SWMU3-4-4
Date Sampled	09/19/96	09/19/96	09/19/96	09/19/96
Date Prepared	09/26/96	09/26/96	09/26/96	09/26/96
Date Analyzed	10/03/96	10/03/96	10/03/96	10/03/96
Dilution Factor	1.00	1.00	1.00	1.00

Analyte	Reporting Limit	Units	Concentration:Dry Weight			
2,4-Dinitrotoluene	330	ug/kg	< 330	< 330	< 330	< 330
Diethyl phthalate	330	ug/kg	< 330	< 330	< 330	< 330
4-Chlorophenyl phenyl ether	330	ug/kg	< 330	< 330	< 330	< 330
Fluorene	330	ug/kg	< 330	< 330	< 330	< 330
4-Nitroaniline	1700	ug/kg	< 1700	< 1700	< 1700	< 1700
4,6-Dinitro-2-methylphenol	1700	ug/kg	< 1700	< 1700	< 1700	< 1700
N-Nitrosodiphenylamine	330	ug/kg	< 330	< 330	< 330	< 330
4-Bromophenyl phenyl ether	330	ug/kg	< 330	< 330	< 330	< 330
Hexachlorobenzene	330	ug/kg	< 330	< 330	< 330	< 330
Pentachlorophenol	1700	ug/kg	< 1700	< 1700	< 1700	< 1700
Phenanthrene	330	ug/kg	< 330	< 330	< 330	< 330
Anthracene	330	ug/kg	< 330	< 330	< 330	< 330
Carbazole	330	ug/kg	< 330	< 330	< 330	< 330
Di-n-butyl phthalate	330	ug/kg	< 330	< 330	< 330	< 330
Fluoranthene	330	ug/kg	< 330	< 330	< 330	< 330
Pyrene	330	ug/kg	< 330	< 330	< 330	< 330
Butyl benzyl phthalate	330	ug/kg	< 330	< 330	< 330	< 330
3,3'-Dichlorobenzidine	670	ug/kg	< 670	< 670	< 670	< 670
Benzo(a)anthracene	330	ug/kg	< 330	< 330	< 330	< 330
Chrysene	330	ug/kg	< 330	< 330	< 330	< 330
bis(2-Ethylhexyl) phthalate	330	ug/kg	< 330	< 330	< 330	< 330
Di-n-octyl phthalate	330	ug/kg	< 330	< 330	< 330	< 330
Benzo(b)fluoranthene	330	ug/kg	< 330	< 330	< 330	< 330
Benzo(k)fluoranthene	330	ug/kg	< 330	< 330	< 330	< 330
Benzo(a)pyrene	330	ug/kg	< 330	< 330	< 330	< 330
Indeno(1,2,3-cd)pyrene	330	ug/kg	< 330	< 330	< 330	< 330
Dibenz(a,h)anthracene	330	ug/kg	< 330	< 330	< 330	< 330
Benzo(g,h,i)perylene	330	ug/kg	< 330	< 330	< 330	< 330
Percent Solids	--	%	71.6	75.5	80.8	79.2

Notes:

Dilution Factor:

Dilution factor indicates the adjustments made for sample dilution.

EPA 8270B:

"Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW-846, Third Edition including Update 2.

ANALYTICAL RESULTS
Semivolatile Organics

GTEL Client ID: FWH03FWH03
in Number: W6090367
Project ID (number): FWH03FWH03
Project ID (name): HAFB/DO WAD/HOLLOMAN/NM

Method: EPA 8270B
Matrix: Solids

GTEL Sample Number	W6090367-05	W6090367-06	W6090367-07	W6090367-08
Client ID	SWMU3-4-5	SWMU3-4-6	SWMU3-4-7	SWMU3-4-8
Date Sampled	09/19/96	09/19/96	09/19/96	09/19/96
Date Prepared	09/26/96	09/26/96	09/26/96	09/26/96
Date Analyzed	10/03/96	10/03/96	10/04/96	10/03/96
Dilution Factor	1.00	1.00	1.00	1.00

Analyte	Reporting Limit	Units	Concentration:Dry Weight			
Phenol	330	ug/kg	< 330	< 330	< 330	< 330
bis(2-Chloroethyl) ether	330	ug/kg	< 330	< 330	< 330	< 330
2-Chlorophenol	330	ug/kg	< 330	< 330	< 330	< 330
1,3-Dichlorobenzene	330	ug/kg	< 330	< 330	< 330	< 330
1,4-Dichlorobenzene	330	ug/kg	< 330	< 330	< 330	< 330
Benzyl alcohol	670	ug/kg	< 670	< 670	< 670	< 670
1,2-Dichlorobenzene	330	ug/kg	< 330	< 330	< 330	< 330
2-Methylphenol	330	ug/kg	< 330	< 330	< 330	< 330
bis(2-Chloroisopropyl) ether	330	ug/kg	< 330	< 330	< 330	< 330
4-Methylphenol	330	ug/kg	< 330	< 330	< 330	< 330
N-Nitrosodi-n-propylamine	330	ug/kg	< 330	< 330	< 330	< 330
Hexachloroethane	330	ug/kg	< 330	< 330	< 330	< 330
[illegible]robenzene	330	ug/kg	< 330	< 330	< 330	< 330
[illegible]phorone	330	ug/kg	< 330	< 330	< 330	< 330
2-Nitrophenol	330	ug/kg	< 330	< 330	< 330	< 330
2,4-Dimethylphenol	330	ug/kg	< 330	< 330	< 330	< 330
Benzoic acid	1700	ug/kg	< 1700	< 1700	< 1700	< 1700
bis(2-Chloroethoxy)methane	330	ug/kg	< 330	< 330	< 330	< 330
2,4-Dichlorophenol	330	ug/kg	< 330	< 330	< 330	< 330
1,2,4-Trichlorobenzene	330	ug/kg	< 330	< 330	< 330	< 330
Naphthalene	330	ug/kg	< 330	< 330	< 330	< 330
4-Chloroaniline	330	ug/kg	< 330	< 330	< 330	< 330
Hexachlorobutadiene	330	ug/kg	< 330	< 330	< 330	< 330
4-Chloro-3-methylphenol	330	ug/kg	< 330	< 330	< 330	< 330
2-Methylnaphthalene	330	ug/kg	< 330	< 330	< 330	< 330
Hexachlorocyclopentadiene	330	ug/kg	< 330	< 330	< 330	< 330
2,4,6-Trichlorophenol	330	ug/kg	< 330	< 330	< 330	< 330
2,4,5-Trichlorophenol	330	ug/kg	< 330	< 330	< 330	< 330
2-Chloronaphthalene	330	ug/kg	< 330	< 330	< 330	< 330
2-Nitroaniline	1700	ug/kg	< 1700	< 1700	< 1700	< 1700
Dimethyl phthalate	330	ug/kg	< 330	< 330	< 330	< 330
Acenaphthylene	330	ug/kg	< 330	< 330	< 330	< 330
2,6-Dinitrotoluene	330	ug/kg	< 330	< 330	< 330	< 330
3-Nitroaniline	1700	ug/kg	< 1700	< 1700	< 1700	< 1700
Acenaphthene	330	ug/kg	< 330	< 330	< 330	< 330
2,4-Dinitrophenol	1700	ug/kg	< 1700	< 1700	< 1700	< 1700
4-Nitrophenol	1700	ug/kg	< 1700	< 1700	< 1700	< 1700
[illegible]enzofuran	330	ug/kg	< 330	< 330	< 330	< 330

ANALYTICAL RESULTS
Semivolatile Organics

GTEL Client ID: FWH03FWH03
Login Number: W6090367
Project ID (number): FWH03FWH03
Project ID (name): HAFB/DO WAD/HOLLOMAN/NM

Method: EPA 8270B
Matrix: Solids

GTEL Sample Number	W6090367-05	W6090367-06	W6090367-07	W6090367-08
Client ID	SWMU3-4-5	SWMU3-4-6	SWMU3-4-7	SWMU3-4-8
Date Sampled	09/19/96	09/19/96	09/19/96	09/19/96
Date Prepared	09/26/96	09/26/96	09/26/96	09/26/96
Date Analyzed	10/03/96	10/03/96	10/04/96	10/03/96
Dilution Factor	1.00	1.00	1.00	1.00

Analyte	Reporting Limit	Units	Concentration:Dry Weight			
2,4-Dinitrotoluene	330	ug/kg	< 330	< 330	< 330	< 330
Diethyl phthalate	330	ug/kg	< 330	< 330	< 330	< 330
4-Chlorophenyl phenyl ether	330	ug/kg	< 330	< 330	< 330	< 330
Fluorene	330	ug/kg	< 330	< 330	< 330	< 330
4-Nitroaniline	1700	ug/kg	< 1700	< 1700	< 1700	< 1700
4,6-Dinitro-2-methylphenol	1700	ug/kg	< 1700	< 1700	< 1700	< 1700
N-Nitrosodiphenylamine	330	ug/kg	< 330	< 330	< 330	< 330
4-Bromophenyl phenyl ether	330	ug/kg	< 330	< 330	< 330	< 330
Hexachlorobenzene	330	ug/kg	< 330	< 330	< 330	< 330
Pentachlorophenol	1700	ug/kg	< 1700	< 1700	< 1700	< 1700
Phenanthrene	330	ug/kg	< 330	< 330	< 330	< 330
Anthracene	330	ug/kg	< 330	< 330	< 330	< 330
Carbazole	330	ug/kg	< 330	< 330	< 330	< 330
Di-n-butyl phthalate	330	ug/kg	< 330	< 330	< 330	< 330
Fluoranthene	330	ug/kg	< 330	< 330	< 330	< 330
Pyrene	330	ug/kg	< 330	< 330	< 330	< 330
Butyl benzyl phthalate	330	ug/kg	< 330	< 330	< 330	< 330
3,3'-Dichlorobenzidine	670	ug/kg	< 670	< 670	< 670	< 670
Benzo(a)anthracene	330	ug/kg	< 330	< 330	< 330	< 330
Chrysene	330	ug/kg	< 330	< 330	< 330	< 330
bis(2-Ethylhexyl) phthalate	330	ug/kg	< 330	< 330	< 330	< 330
Di-n-octyl phthalate	330	ug/kg	< 330	< 330	< 330	< 330
Benzo(b)fluoranthene	330	ug/kg	< 330	< 330	< 330	< 330
Benzo(k)fluoranthene	330	ug/kg	< 330	< 330	< 330	< 330
Benzo(a)pyrene	330	ug/kg	< 330	< 330	< 330	< 330
Indeno(1,2,3-cd)pyrene	330	ug/kg	< 330	< 330	< 330	< 330
Dibenz(a,h)anthracene	330	ug/kg	< 330	< 330	< 330	< 330
Benzo(g,h,i)perylene	330	ug/kg	< 330	< 330	< 330	< 330
Percent Solids	--	%	73.4	73.7	94.1	77.9

Notes:

Dilution Factor:

Dilution factor indicates the adjustments made for sample dilution.

EPA 8270B:

"Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW-846, Third Edition including Update 2.

W6090367-07:

GC/MS Data indicates the presence of non-target compounds.

GTEL Client ID: FWH03FWH03

QUALITY CONTROL RESULTS

in Number: W6090367

ject ID (number): FWH03FWH03

Project ID (name): HAFB/DO WAD/HOLLOMAN/NM

Semivolatile Organics
Method: EPA 8270B
Matrix: Solids

Conformance/Non-Conformance Summary

(X = Requirements Met * = See Comments -- = Not Required NA = Not Applicable)

Conformance Item	Volatile Organics	Semi-Volatile Organics	Inorganics (MT, WC)
GC/MS Tune	--	--	NA
Initial Calibration	--	--	--
Continuing Calibration	--	--	--
Surrogate Recovery	--	X	NA
Holding Time	--	X	--
Method Accuracy	--	X	--
Method Precision	--	X	--
Blank Contamination	--	X	--

Comments:

GTEL Client ID: FWH03FWH03
Login Number: W6090367
Project ID (number): FWH03FWH03
Project ID (name): HAFB/DO WAD/HOLLOMAN/NM

QUALITY CONTROL RESULTS

Semivolatile Organics
Method: EPA 827
Matrix: Solid

Surrogate Results

QC Batch No.	Reference	Sample ID	2FP	PHL	NBZ	FBP	TBP	TPH
Method: EPA 8270B		Acceptability Limits:	25-121%	24-113%	23-120%	30-115%	19-122%	18-137%
092696BNAS-1	BS092696BNA	Method Blank Soil	44.3	50.7	54.1	53.5	39.4	85.7
092696BNAS-2	LS092696BNA	Laboratory control	46.8	52.9	55.3	55.2	54.5	83.6
092696BNAS-3	LSD092696BNA	LCS Soil Duplicate	45.7	51.1	55.3	54.7	50.3	78.9
092696BNAS-4	MS09036708	Matrix Spike	43.3	48.5	49.0	51.3	49.7	69.0
092696BNAS-5	MD09036708	Matrix Spike Dupli	41.2	47.1	48.0	50.1	51.3	72.6
--	09036701	SWMU3-4-1	45.3	52.8	50.3	52.9	50.3	65.1
--	09036702	SWMU3-4-2	52.1	61.6	60.6	61.1	52.4	75.2
--	09036703	SWMU3-4-3	43.1	49.7	47.9	50.9	45.9	68.5
--	09036704	SWMU3-4-4	46.4	55.3	53.2	53.8	50.7	72.2
--	09036705	SWMU3-4-5	46.6	52.4	51.7	53.6	47.5	68.3
--	09036706	SWMU3-4-6	45.8	53.6	53.2	54.1	50.4	69.8
--	09036707	SWMU3-4-7	49.8	60.6	59.6	65.9	57.6	74.5
--	09036708	SWMU3-4-8	48.1	54.7	54.5	57.1	49.0	75.4

Notes:

*: Indicates values outside of acceptability limits. See Nonconformance Summary.

Acceptability limits are derived from USEPA Contract Laboratory Program (CLP) requirements: Statement of Work (SOW) for organic analysis OLM02.0 and OLM02.1.

GTEL Client ID: FWH03FWH03
in Number: W6090367
ject ID (number): FWH03FWH03
Project ID (name): HAFB/DO WAD/HOLLOMAN/NM

QUALITY CONTROL RESULTS

Semivolatile Organics
Method: EPA 8270B
Matrix: Solids

Method Blank Results

QC Batch No: 092696BNAS-1
Date Analyzed: 03-OCT-96

Analyte	Method:EPA 8270B Concentration: ug/kg
Phenol	< 330.
bis(2-Chloroethyl) ether	< 330.
2-Chlorophenol	< 330.
1,3-Dichlorobenzene	< 330.
1,4-Dichlorobenzene	< 330.
Benzyl alcohol	< 670.
1,2-Dichlorobenzene	< 330.
2-Methylphenol	< 330.
bis(2-Chloroisopropyl) ether	< 330.
4-Methylphenol	< 330.
N-Nitrosodi-n-propylamine	< 330.
Hexachloroethane	< 330.
Nitrobenzene	< 330.
Isophorone	< 330.
2-Nitrophenol	< 330.
2,4-Dimethylphenol	< 330.
Benzoic acid	< 1700
2-Chlorethoxy)methane	< 330.
2,4-Dichlorophenol	< 330.
1,2,4-Trichlorobenzene	< 330.
Naphthalene	< 330.
4-Chloroaniline	< 670.
Hexachlorobutadiene	< 330.
4-Chloro-3-methylphenol	< 670.
2-Methylnaphthalene	< 330.
Hexachlorocyclopentadiene	< 330.
2,4,6-Trichlorophenol	< 330.
2,4,5-Trichlorophenol	< 330.
2-Chloronaphthalene	< 330.
2-Nitroaniline	< 1700
Dimethyl phthalate	< 330.
Acenaphthylene	< 330.
2,6-Dinitrotoluene	< 330.
3-Nitroaniline	< 1700
Acenaphthene	< 330.
2,4-Dinitrophenol	< 1700
4-Nitrophenol	< 1700
Dibenzofuran	< 330.
2,4-Dinitrotoluene	< 330.
Diethyl phthalate	< 330.
4-Chlorophenyl phenyl ether	< 330.
Fluorene	< 330.
troaniline	< 1700
-Dinitro-2-methylphenol	< 1700

GTEL Client ID: FWH03FWH03
Login Number: W6090367
Project ID (number): FWH03FWH03
Project ID (name): HAFB/DO WAD/HOLLOMAN/NM

QUALITY CONTROL RESULTS

Semivolatile Organics
Method: EPA 82
Matrix: Solids

Method Blank Results

N-Nitrosodiphenylamine	< 330.
4-Bromophenyl phenyl ether	< 330.
Hexachlorobenzene	< 330.
Pentachlorophenol	< 1700
Phenanthrene	< 330.
Anthracene	< 330.
Carbazole	< 330.
Di-n-butyl phthalate	< 330.
Fluoranthene	< 330.
Pyrene	< 330.
Butyl benzyl phthalate	< 330.
3,3'-Dichlorobenzidine	< 670.
Benzo[a]anthracene	< 330.
Chrysene	< 330.
bis(2-Ethyl hexyl) phthalate	< 330.
Di-n-octyl phthalate	< 330.
Benzo[b]fluoranthene	< 330.
Benzo[k]fluoranthene	< 330.
Benzo[a]pyrene	< 330.
Indeno[1,2,3-cd]pyrene	< 330.
Dibenzo[a,h]anthracene	< 330.
Benzo[g,h,i]perylene	< 330.

Notes:

GTEL Client ID: FWH03FWH03
Login Number: W6090367
ect ID (number): FWH03FWH03
ject ID (name): HAFB/DO WAD/HOLLOMAN/NM

QUALITY CONTROL RESULTS

Semivolatile Organics
Method: EPA 8270B
Matrix: Solids

Matrix Spike(MS) and Matrix Spike Duplicate(MSD) Results

GTEL Sample ID: W6090367-08 MS ID: MS09036708 MSD ID: MD09036708
Analysis Date: 03-OCT-96 03-OCT-96 03-OCT-96

Units: ug/kg	Sample	Spikes Added		MS	MS	MSD	MSD		Acceptability Limits	
Analyte	Conc.	MS	MSD	Conc.	% Rec.	Conc.	% Rec.	RPD	RPD	%Rec.
Phenol	< 330.(0.000)	4170	4240	2240	53.7	2180	51.4	4.40	35	26-90
2-Chlorophenol	< 330.(0.000)	4110	4180	2290	55.7	2240	53.6	3.80	50	25-102
1,4-Dichlorobenzene	< 330.(0.000)	2250	2290	1230	54.7	1180	51.5	6.00	27	28-104
N-Nitrosodi-n-propylamine	< 330.(0.000)	3030	3080	1290	42.6	1360	44.2	3.70	38	41-126
1,2,4-Trichlorobenzene	< 330.(0.000)	2220	2260	1220	55.0	1220	54.0	1.80	23	38-107
4-Chloro-3-methylphenol	< 330.(0.000)	4020	4090	2580	64.2	2650	64.8	0.900	33	26-103
Acenaphthene	< 330.(0.000)	2470	2520	1550	62.8	1510	59.9	4.70	19	31-137
4-Nitrophenol	< 1700(0.000)	3460	3520	2050	59.2	2030	57.7	2.60	50	11-114
2,4-Dinitrotoluene	< 330.(0.000)	2000	2040	1300	65.0	1290	63.2	2.80	47	28-89
Pentachlorophenol	< 1700(0.000)	3370	3420	2810	83.4	2830	82.7	0.800	47	17-109
Pyrene	< 330.(0.000)	2480	2530	1930	77.8	2150	85.0	8.80	36	35-142

Notes:
Values in parentheses in the sample concentration column are used for % recovery calculations.
Acceptability limits are derived from USEPA Contract Laboratory Program (CLP) requirements: Statement of Work (SOW) for organic analysis OLM02.0 and OLM02.1.

GTEL Client ID: FWH03FWH03
Login Number: W6090367
Project ID (number): FWH03FWH03
Project ID (name): HAFB/DO WAD/HOLLOMAN/NM

QUALITY CONTROL RESULTS

Semivolatile Organics
Method: EPA 8270B
Matrix: Soli

Laboratory Control Sample (LCS) and Laboratory Control Duplicate Results

Analyte	Spike Amount	LCS Concentration	LCS Recovery, %	LCS Duplicate Concentration	LCS Duplicate Recovery, %	RPD, %	Acceptability Limits RPD, %	Acceptability Limits Recovery, %
EPA 8270B Units: ug/kg		QC Batch:092696BNAS-3						
Phenol	4250	2370	56.0	2460	58.6	4.54	35	26- 90%
2-Chlorophenol	4190	2460	59.0	2530	61.1	3.50	50	25-102%
1,4-Dichlorobenzene	2290	1300	57.0	1280	56.6	0.704	27	28-104%
N-Nitrosodi-n-propylamine	3090	1580	51.3	1650	54.1	5.31	38	41-126%
1,2,4-Trichlorobenzene	2270	1340	59.3	1320	58.9	0.677	23	38-107%
4-Chloro-3-methylphenol	4100	2580	63.2	2850	70.4	10.8	33	26-103%
Acenaphthene	2520	1630	64.9	1710	68.7	5.69	19	31-137%
4-Nitrophenol	3540	1920	54.5	2030	58.2	6.57	50	11-114%
2,4-Dinitrotoluene	2040	1300	64.0	1390	68.8	7.23	47	28- 89%
Pentachlorophenol	3440	2110	61.7	2330	68.7	10.7	47	17-109%
Pyrene	2540	2410	95.6	2490	99.6	4.10	36	35-142%

Notes:
Acceptability limits are derived from USEPA Contract Laboratory Program (CLP) requirements; Statement of Work (SOW) for organic analysis OLM02.0 and OLM02.1.

ANALYTICAL RESULTS
Total Petroleum Hydrocarbons

GTEL Client ID: FWH03FWH03
⁻in Number: W6090367
/ject ID (number): FWH03FWH03
Project ID (name): HAFB/DO WAD/HOLLOMAN/NM

Method: EPA 418.1
Matrix: Solids

GTEL Sample Number	W6090367-01	W6090367-02	W6090367-03	W6090367-04
Client ID	SWMU3-4-1	SWMU3-4-2	SWMU3-4-3	SWMU3-4-4
Date Sampled	09/19/96	09/19/96	09/19/96	09/19/96
Date Prepared	10/04/96	10/04/96	10/04/96	10/04/96
Date Analyzed	10/04/96	10/04/96	10/04/96	10/04/96
Dilution Factor	1.00	1.00	1.00	1.00

Analyte	Reporting Limit	Units	Concentration:Dry Weight			
Total Petroleum Hydrocarbons	20.	mg/kg	< 20.	24.	< 20.	< 20.
Percent Solids	--	%	71.6	75.5	80.8	79.2

Notes:

Dilution Factor:

Dilution factor indicates the adjustments made for sample dilution.

EPA 418.1:

Extraction is modified for soils by using EPA Method 9071 (soxhlet extraction). "Methods for Chemical Analysis of Water and Wastes", EPA 600/4-79-020, USEPA EMSL, Cincinnati, OH, Revised, March 1983.

ANALYTICAL RESULTS
Total Petroleum Hydrocarbons

GTEL Client ID: FWH03FWH03
Login Number: W6090367
Project ID (number): FWH03FWH03
Project ID (name): HAFB/DO WAD/HOLLOMAN/NM

Method: EPA 418.1
Matrix: Solids

GTEL Sample Number		W6090367-05	W6090367-06	W6090367-07	W6090367-08
Client ID		SWMU3-4-5	SWMU3-4-6	SWMU3-4-7	SWMU3-4-8
Date Sampled		09/19/96	09/19/96	09/19/96	09/19/96
Date Prepared		10/04/96	10/04/96	10/04/96	10/04/96
Date Analyzed		10/04/96	10/04/96	10/04/96	10/04/96
Dilution Factor		1.00	1.00	1.00	1.00
Analyte	Reporting Limit / Units	Concentration:Dry Weight			
Total Petroleum Hydrocarbons	20. mg/kg	< 20.	< 20.	< 20.	< 20.
Percent Solids	-- %	73.4	73.7	94.1	77.9

Notes:

Dilution Factor:

Dilution factor indicates the adjustments made for sample dilution.

EPA 418.1:

Extraction is modified for soils by using EPA Method 9071 (soxhlet extraction). "Methods for Chemical Analysis of Water and Wastes", EPA 600/4-79-020, USEPA EMSL, Cincinnati, OH, Revised, March 1983.

GTEL Client ID: FWH03FWH03
Login Number: W6090367
Project ID (number): FWH03FWH03
oject ID (name): HAFB/DO WAD/HOLLOMAN/NM

QUALITY CONTROL RESULTS

Total Petroleum Hydrocarbons
Method: EPA 418.1
Matrix: Solids

Conformance/Non-Conformance Summary

(X = Requirements Met * = See Comments -- = Not Required NA = Not Applicable)

Conformance Item	Volatile Organics	Semi-Volatile Organics	Inorganics (MT, WC)
GC/MS Tune	--	--	NA
Initial Calibration	--	--	--
Continuing Calibration	--	X	--
Surrogate Recovery	--	--	NA
Holding Time	--	X	--
Method Accuracy	--	X	--
Method Precision	--	X	--
Blank Contamination	--	X	--

Comments:

GTEL Client ID: FWH03FWH03
Login Number: W6090367
Project ID (number): FWH03FWH03
Project ID (name): HAFB/DO WAD/HOLLOMAN/NM

QUALITY CONTROL RESULTS

Total Petroleum Hydrocarbons
Method: EPA 418
Matrix: Sol.

Method Blank Results

QC Batch No: 100496IRSX-1
Date Analyzed: 04-OCT-96

Analyte	Method:EPA 418.1	Concentration: mg/kg
Total Petroleum Hydrocarbons	< 20.0	

Notes:

GTEL Client ID: FWH03FWH03
Login Number: W6090367
Project ID (number): FWH03FWH03
ject ID (name): HAFB/DO WAD/HOLLOMAN/NM

QUALITY CONTROL RESULTS

Total Petroleum Hydrocarbons
Method: EPA 418.1
Matrix: Solids

Calibration Verification Sample Summary

Analyte	Spike Amount	Check Sample Concentration	QC Percent Recovery	Acceptability Limits Recovery
EPA 418.1 **Units:mg/L**	**QC Batch:100496IRSX-6**			
Total Petroleum Hydrocarbons	5.00	4.89	97.8	90-110%

Notes:

GTEL Client ID: FWH03FWH03
Login Number: W6090367
Project ID (number): FWH03FWH03
Project ID (name): HAFB/DO WAD/HOLLOMAN/NM

QUALITY CONTROL RESULTS

Total Petroleum Hydrocarbons
Method: EPA 418.1
Matrix: Sol

Laboratory Control Sample Summary

Analyte	Spike Amount	Check Sample Concentration	QC Percent Recovery	Acceptability Limits Recovery
EPA 418.1 Units:mg/kg	QC Batch:100496IRSX-2			
Total Petroleum Hydrocarbons	150.	190.	127.	40-140%

Notes:
The accuracy limits are for a fuel oil #2 spike when the calibration is based on the standard reference oil.

GTEL Client ID: FWH03FWH03
Login Number: W6090367
Project ID (number): FWH03FWH03
oject ID (name): HAFB/DO WAD/HOLLOMAN/NM

QUALITY CONTROL RESULTS

Total Petroleum Hydrocarbons
Method: EPA 418.1
Matrix: Solids

Matrix Spike(MS) and Matrix Spike Duplicate(MSD) Results

GTEL Sample ID:W6090367-01 MS ID:MS09036701 MSD ID:MD09036701
Analysis Date: 04-OCT-96 04-OCT-96 04-OCT-96

Units: mg/kg	Sample	Spikes Added		MS	MS	MSD	MSD		Acceptability Limits	
Analyte	Conc.	MS	MSD	Conc.	% Rec.	Conc.	% Rec.	RPD	RPD	%Rec.
Total Petroleum Hydrocarbons	20. (10.7)	150.	150.	198.	125.	196.	124.	0.800	50	42-141

Notes:

Values in parentheses in the sample concentration column are used for % recovery calculations.

The accuracy limits are for a fuel oil #2 spike when the calibration is based on the standard reference oil.

ANALYTICAL RESULTS
Results For Multiple Methods

GTEL Client ID: FWH03FWH03
Login Number: W6090367
Project ID (number): FWH03FWH03
Project ID (name): HAFB/DO WAD/HOLLOMAN/NM

Method: See Below
Matrix: Solids

	GTEL Sample Number	W6090367-01	W6090367-02	W6090367-03	W6090367-04
	Client ID	SWMU3-4-1	SWMU3-4-2	SWMU3-4-3	SWMU3-4-4
	Date Sampled	09/19/96	09/19/96	09/19/96	09/19/96
EPA 6010A	Date Prepared	09/26/96	09/26/96	09/26/96	09/26/96
EPA 6010A	Date Analyzed	09/26/96	10/03/96	10/03/96	10/03/96
EPA 6010A	Dilution Factor	1.00	1.00	1.00	1.00
EPA 7060	Date Prepared	10/01/96	10/01/96	10/01/96	10/01/96
EPA 7060	Date Analyzed	10/03/96	10/03/96	10/03/96	10/03/96
EPA 7060	Dilution Factor	1.00	1.00	1.00	1.00
EPA 7421	Date Prepared	10/01/96	10/01/96	10/01/96	10/01/96
EPA 7421	Date Analyzed	10/01/96	10/01/96	10/01/96	10/01/96
EPA 7421	Dilution Factor	1.00	1.00	1.00	5.00

Analyte		Reporting Limit	Units	Concentration:Dry Weight			
Inorganics (MT, WC)							
Aluminum	EPA 6010A	20.	mg/kg	1100	5000	6700	9100
Antimony	EPA 6010A	20.	mg/kg	< 20.	< 20.	< 20.	< 20.
Arsenic	EPA 7060	1.0	mg/kg	1.8	1.5	1.6	2.0
Barium	EPA 6010A	20.	mg/kg	22.	61.	44.	79.
Beryllium	EPA 6010A	0.50	mg/kg	< 0.50	< 0.50	< 0.50	< 0.50
Cadmium	EPA 6010A	2.0	mg/kg	< 2.0	< 2.0	< 2.0	< 2.0
Calcium	EPA 6010A	100	mg/kg	160000	120000	64000	69000
Chromium	EPA 6010A	3.0	mg/kg	< 3.0	4.7	6.4	7.7
Cobalt	EPA 6010A	5.0	mg/kg	< 5.0	< 5.0	< 5.0	< 5.0
Copper	EPA 6010A	2.5	mg/kg	< 2.5	4.2	5.6	8.0
Iron	EPA 6010A	10.	mg/kg	1200	4300	5900	7800
Lead	EPA 7421	0.40	mg/kg	1.6	3.1	4.4	6.2
Percent Solids	--		%	71.6	75.5	80.8	79.2

Notes:

Dilution Factor:

Dilution factor indicates the adjustments made for sample dilution.

EPA 6010A, EPA 7060, EPA 7421:

Digestion by EPA Method 3050A. "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW-846, Third Edition including Update 2.

ANALYTICAL RESULTS
Results For Multiple Methods

GTEL Client ID: FWH03FWH03
in Number: W6090367
ɔject ID (number): FWH03FWH03
Project ID (name): HAFB/DO WAD/HOLLOMAN/NM

Method: See Below
Matrix: Solids

	GTEL Sample Number	W6090367-05	W6090367-06	W6090367-07	W6090367-08
	Client ID	SWMU3-4-5	SWMU3-4-6	SWMU3-4-7	SWMU3-4-8
	Date Sampled	09/19/96	09/19/96	09/19/96	09/19/96
EPA 6010A	Date Prepared	09/26/96	09/26/96	09/26/96	09/26/96
EPA 6010A	Date Analyzed	10/03/96	10/03/96	10/03/96	10/03/96
EPA 6010A	Dilution Factor	1.00	1.00	1.00	1.00
EPA 7060	Date Prepared	10/01/96	10/01/96	10/01/96	10/01/96
EPA 7060	Date Analyzed	10/03/96	10/03/96	10/03/96	10/03/96
EPA 7060	Dilution Factor	1.00	1.00	1.00	1.00
EPA 7421	Date Prepared	10/01/96	10/01/96	10/01/96	10/01/96
EPA 7421	Date Analyzed	10/01/96	10/01/96	10/01/96	10/01/96
EPA 7421	Dilution Factor	1.00	5.00	1.00	1.00

Analyte		Reporting Limit	Units	Concentration:Dry Weight			
Aluminum	EPA 6010A	20.	mg/kg	3900	4300	1200	4600
Antimony	EPA 6010A	20.	mg/kg	< 20.	< 20.	< 20.	< 20.
Arsenic	EPA 7060	1.0	mg/kg	1.7	1.4	< 1.0	1.5
Barium	EPA 6010A	20.	mg/kg	37.	32.	< 20.	40.
Beryllium	EPA 6010A	0.50	mg/kg	< 0.50	< 0.50	< 0.50	< 0.50
Cadmium	EPA 6010A	2.0	mg/kg	< 2.0	< 2.0	< 2.0	< 2.0
ᶜ-ᵃlcium	EPA 6010A	100	mg/kg	110000	110000	3700	110000
ɔmium	EPA 6010A	3.0	mg/kg	4.3	4.8	< 3.0	4.1
Cobalt	EPA 6010A	5.0	mg/kg	< 5.0	< 5.0	< 5.0	< 5.0
Copper	EPA 6010A	2.5	mg/kg	2.6	4.4	3.6	4.1
Iron	EPA 6010A	10.	mg/kg	3700	4300	4300	4100
Lead	EPA 7421	0.40	mg/kg	2.7	6.4	2.9	3.0
Percent Solids	--		%	73.4	73.7	94.1	77.9

Notes:

Dilution Factor:

Dilution factor indicates the adjustments made for sample dilution.

EPA 6010A, EPA 7060, EPA 7421:

Digestion by EPA Method 3050A. "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW-846, Third Edition including Update 2.

ANALYTICAL RESULTS
Results For Multiple Methods

GTEL Client ID: FWH03FWH03
Login Number: W6090367
Project ID (number): FWH03FWH03
Project ID (name): HAFB/DO WAD/HOLLOMAN/NM

Method: See Below
Matrix: Solids

	GTEL Sample Number	W6090367-01	W6090367-02	W6090367-03	W6090367-04
	Client ID	SWMU3-4-1	SWMU3-4-2	SWMU3-4-3	SWMU3-4-4
	Date Sampled	09/19/96	09/19/96	09/19/96	09/19/96
EPA 6010A	Date Prepared	09/26/96	09/26/96	09/26/96	09/26/96
EPA 6010A	Date Analyzed	09/26/96	10/03/96	10/03/96	10/03/96
EPA 6010A	Dilution Factor	1.00	1.00	1.00	1.00
EPA 7471	Date Prepared	09/26/96	09/26/96	09/26/96	09/26/96
EPA 7471	Date Analyzed	09/26/96	09/26/96	09/26/96	09/26/96
EPA 7471	Dilution Factor	1.00	1.00	1.00	1.00
EPA 7740	Date Prepared	10/01/96	10/01/96	10/01/96	10/01/96
EPA 7740	Date Analyzed	10/02/96	10/02/96	10/02/96	10/02/96
EPA 7740	Dilution Factor	1.00	1.00	1.00	1.00
EPA 7841	Date Prepared	10/01/96	10/01/96	10/01/96	10/01/96
EPA 7841	Date Analyzed	10/02/96	10/02/96	10/02/96	10/02/96
EPA 7841	Dilution Factor	1.00	1.00	1.00	1.00

Analyte		Reporting Limit	Units	Concentration:Dry Weight			
Inorganics (MT, WC)							
Magnesium	EPA 6010A	100	mg/kg	1700	2200	2900	3200
Manganese	EPA 6010A	1.5	mg/kg	18.	78.	110	150
Mercury	EPA 7471	0.25	mg/kg	< 0.25	< 0.25	< 0.25	< 0.25
Nickel	EPA 6010A	4.0	mg/kg	< 4.0	< 4.0	< 4.0	6.0
Potassium	EPA 6010A	500	mg/kg	< 500	1100	1700	2100
Selenium	EPA 7740	1.0	mg/kg	< 1.0	< 1.0	< 1.0	< 1.0
Silver	EPA 6010A	2.0	mg/kg	< 2.0	< 2.0	< 2.0	< 2.0
Sodium	EPA 6010A	100	mg/kg	410	500	350	450
Thallium	EPA 7841	1.0	mg/kg	< 1.0	< 1.0	< 1.0	< 1.0
Vanadium	EPA 6010A	5.0	mg/kg	6.4	9.9	12.	14.
Zinc	EPA 6010A	2.0	mg/kg	3.8	14.	19.	25.
Percent Solids	--		%	71.6	75.5	80.8	79.2

Notes:

Dilution Factor:

Dilution factor indicates the adjustments made for sample dilution.

EPA 6010A, EPA 7740, EPA 7841:

Digestion by EPA Method 3050A.

EPA 6010A, EPA 7471, EPA 7740, EPA 7841:

"Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW-846, Third Edition including Update 2.

ANALYTICAL RESULTS
Results For Multiple Methods

GTEL Client ID: FWH03FWH03
L Number: W6090367
Project ID (number): FWH03FWH03
Project ID (name): HAFB/DO WAD/HOLLOMAN/NM

Method: See Below
Matrix: Solids

	GTEL Sample Number	W6090367-05	W6090367-06	W6090367-07	W6090367-08
	Client ID	SWMU3-4-5	SWMU3-4-6	SWMU3-4-7	SWMU3-4-8
	Date Sampled	09/19/96	09/19/96	09/19/96	09/19/96
EPA 6010A	Date Prepared	09/26/96	09/26/96	09/26/96	09/26/96
EPA 6010A	Date Analyzed	10/03/96	10/03/96	10/03/96	10/03/96
EPA 6010A	Dilution Factor	1.00	1.00	1.00	1.00
EPA 7471	Date Prepared	09/26/96	09/26/96	09/26/96	09/26/96
EPA 7471	Date Analyzed	09/26/96	09/26/96	09/26/96	09/26/96
EPA 7471	Dilution Factor	1.00	1.00	1.00	1.00
EPA 7740	Date Prepared	10/01/96	10/01/96	10/01/96	10/01/96
EPA 7740	Date Analyzed	10/02/96	10/02/96	10/02/96	10/02/96
EPA 7740	Dilution Factor	1.00	1.00	1.00	1.00
EPA 7841	Date Prepared	10/01/96	10/01/96	10/01/96	10/01/96
EPA 7841	Date Analyzed	10/02/96	10/02/96	10/02/96	10/02/96
EPA 7841	Dilution Factor	1.00	1.00	1.00	1.00

Analyte		Reporting Limit	Units	Concentration:Dry Weight			
Inorganics (MT, WC)							
Magnesium	EPA 6010A	100	mg/kg	2800	2900	900	2700
Manganese	EPA 6010A	1.5	mg/kg	34.	82.	96.	59.
Mercury	EPA 7471	0.25	mg/kg	< 0.25	< 0.25	< 0.25	< 0.25
Nickel	EPA 6010A	4.0	mg/kg	< 4.0	< 4.0	< 4.0	< 4.0
Potassium	EPA 6010A	500	mg/kg	970	1200	< 500	1200
Selenium	EPA 7740	1.0	mg/kg	< 1.0	< 1.0	< 1.0	< 1.0
Silver	EPA 6010A	2.0	mg/kg	< 2.0	< 2.0	< 2.0	< 2.0
Sodium	EPA 6010A	100	mg/kg	260	180	190	740
Thallium	EPA 7841	1.0	mg/kg	< 1.0	< 1.0	< 1.0	< 1.0
Vanadium	EPA 6010A	5.0	mg/kg	18.	10.	9.9	9.1
Zinc	EPA 6010A	2.0	mg/kg	9.9	15.	11.	13.
Percent Solids	--		%	73.4	73.7	94.1	77.9

Notes:

Dilution Factor:

Dilution factor indicates the adjustments made for sample dilution.

EPA 6010A, EPA 7740, EPA 7841:

Digestion by EPA Method 3050A.

EPA 6010A, EPA 7471, EPA 7740, EPA 7841:

"Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW-846, Third Edition including Update 2.

Project ID (Number): FWH03FWH03
Project ID (Name): HAFB
DO WAD
Holloman, NM
Work Order Number: W6-09-0367
Date Reported: 10-04-96

QA NONCONFORMANCE SUMMARY

Metals in Soil

1.0 Sample Handling

1.1 Sample handling and holding time criteria were not met for zero samples.

2.0 Initial Calibration Verification

2.1 The validity for the calibration verification was exceeded for zero samples as shown in Table 2.

3.0 Method Blanks

3.1 Zero target elements were found in the method blank as shown in Table 3.

4.0 Matrix Spike (MS) Accuracy

4.1 The recovery limits were exceeded in the matrix spike for three elements as shown in Table 4A and 4B.

4.2 Recovery limits were exceeded for barium, manganese and potassium in the matrix spike sample due to heterogeneity.

4.3 The LCS and LCS duplicate samples for the elements listed above were in control as shown in Table 5.

5.0 Sample Duplicate Precision

5.1 The maximum percent difference (RPD) was exceeded for one element in the matrix spike and matrix spike duplicate samples as shown in Table 4A and 4B.

5.2 The maximum relative percent difference was exceeded for potassium between the matrix spike and matrix spike duplicate samples due to heterogeneity.

6.0 Laboratory Control Sample

6.1 The recovery limits were not met for zero elements for the laboratory control samples as shown in Table 5.

Project ID (Number): FWH03FWH03
Project ID (Name): HAFB
DO WAD
Holloman, NM
Work Order Number: W6-09-0367
Date Reported: 10-04-96

Table 2
INITIAL CALIBRATION VERIFICATION QC CHECK SAMPLE REPORT
Metals in Soil

Analyte	Expected Result, mg/L	Observed Result, mg/L	Recovery, %	Acceptability Limits, %[a]
Aluminum	1.01	1.03	102	90-110
Antimony	1.00	0.991	99.1	90-110
Arsenic	0.0400	0.0422	106	90-110
Barium	1.00	1.02	102	90-110
Beryllium	1.00	1.01	101	90-110
Cadmium	1.00	1.04	104	90-110
Calcium	1.00	0.986	98.6	90-110
Chromium	1.00	1.00	100	90-110
Cobalt	1.00	1.03	103	90-110
Copper	1.00	1.01	101	90-110
Iron	1.00	1.03	103	90-110
Lead	0.0200	0.0210	105	90-110
Magnesium	0.990	1.01	102	90-110
Manganese	1.00	1.01	101	90-110
Mercury	0.00400	0.00414	104	90-110
Nickel	1.00	1.03	103	90-110
Potassium	10.0	9.15	91.5	90-110
Selenium	0.0400	0.0416	104	90-110
Silver	0.500	0.513	102	90-110
Sodium	1.00	0.956	95.6	90-110
Thallium	0.0200	0.0203	102	90-110
Vanadium	1.01	0.991	98.1	90-110
Zinc	1.00	1.04	104	90-110

a Acceptability limits as per EPA Contract Laboratory Program.

Project ID (Number): FWH03FWH03
Project ID (Name): HAFB
DO WAD
Holloman, NM
Work Order Number: W6-09-0367
Date Reported: 10-04-96

Table 3
BLANK REPORT
Metals in Soil

Analyte	Initial Calibration Blank, mg/L	Preparation Blank, mg/Kg
Aluminum	<0.20	<20
Antimony	<0.20	<20
Arsenic	<0.010	<1.0
Barium	<0.20	<20
Beryllium	<0.0050	<0.50
Cadmium	<0.020	<2.0
Calcium	<1.00	<100
Chromium	<0.030	<3.0
Cobalt	<0.050	<5.0
Copper	<0.025	<2.5
Iron	<0.10	<10
Lead	<0.0040	<0.40
Magnesium	<1.00	<100
Manganese	<0.015	<1.5
Mercury	<0.0025	<0.25
Nickel	<0.040	<4.0
Potassium	<5.00	<500
Selenium	<0.010	<1.0
Silver	<0.020	<2.0
Sodium	<1.00	<100
Thallium	<0.010	<1.0
Vanadium	<0.050	<5.0
Zinc	<0.020	<2.0

<# detected at the indicated detection limit(#).

Project ID (Number): FWH03FWH03
Project ID (Name): HAFB
DO WAD
Holloman, NM
Work Order Number: W6-09-0367
Date Reported: 10-04-96

Table 4A
MATRIX SPIKE AND MATRIX SPIKE DUPLICATE SUMMARY
Metals in Soil

Sample Spiked: for Method 7471 - W6090342-01
Sample Spiked: for Method 7740 - W6090342-01
Sample Spiked: for Method 7421 - W6090370-01
Sample Spiked: for Method 6010A- W6090342-01
Sample Spiked: for Method 7841 - W6090342-01
Sample Spiked: for Method 7060 - W6090342-01

Analyte	Spike Added, mg/Kg	Sample Concentration, mg/Kg	MS Concentration, mg/Kg	MS Percent Recovery	Acceptability Limits, %[a]
Alumimum	185	5880	5050	NA	80-120
Antimony	185	<20.0	149	80.6	80-120
Arsenic	3.77	1.57	5.48	104	75-125
Barium	185	114	251	73.8[b]	80-120
Beryllium	74.1	<0.50	63.2	85.4	80-120
Cadmium	93.5	<2.0	77.6	83.0	80-120
Calcium	185	31200	28400	NA	80-120
Chromium	185	6.00	160	83.2	80-120
Cobalt	185	6.48	160	82.6	80-120
Copper	185	12.0	173	87.0	80-120
Iron	185	11700	9890	NA	80-120
Lead	1.69	29.3	29.8	NA	75-125
Magnesium	185	3570	3290	NA	80-120
Manganese	185	182	320	74.7[b]	80-120
Mercury	0.323	<0.25	0.289	89.6	75-125
Nickel	185	7.98	162	83.0	80-120
Potassium	926	1970	2400	46.7[b]	80-120
Selenium	3.77	<1.0	3.07	81.4	75-125
Silver	37.0	<2.0	31.8	86.0	80-120
Sodium	185	135	326	103	80-120
Thallium	1.89	<1.0	1.84	97.5	75-125
Vanadium	185	21.8	173	81.5	80-120
Zinc	185	28.0	177	80.5	80-120

a Acceptability limits as per EPA Contract Laboratory Program.

b Value is outside of acceptability limits.

A Not applicable; initital sample concentration greater than four times the spike amount.

Project ID (Number): FWH03FWH03
Project ID (Name): HAFB
DO WAD
Holloman, NM
Work Order Number: W6-09-0367
Date Reported: 10-04-96

Table 4B
MATRIX SPIKE AND MATRIX SPIKE DUPLICATE SUMMARY
Metals in Soil

Analyte	Spike Added, mg/Kg	MSD Concentration, mg/Kg	MSD Percent Recovery	RPD %	Acceptability Limits, %[a]
					RPD
Aluminum	143	4370	NA	14.3	20.0
Antimony	143	117	81.9	1.60	20.0
Arsenic	3.08	4.33	89.7	14.4	20.0
Barium	143	217	71.7 *	2.86	20.0
Beryllium	57.1	49.8	87.1	2.03	20.0
Cadmium	72.1	61.0	84.6	1.83	20.0
Calcium	143	26700	NA	6.15	20.0
Chromium	143	127	84.7	1.82	20.0
Cobalt	143	125	82.9	0.340	20.0
Copper	143	139	89.2	2.50	20.0
Iron	143	9020	NA	9.20	20.0
Lead	1.96	30.8	NA	3.30	20.0
Magnesium	143	3100	NA	5.66	20.0
Manganese	143	277	66.3 *	11.9	20.0
Mercury	0.323	0.265	82.2	8.66	20.0
Nickel	143	127	83.2	0.212	20.0
Potassium	714	2140	23.9 *	64.7[b]	20.0
Selenium	3.08	2.50	81.2	0.130	20.0
Silver	28.6	24.8	86.9	1.05	20.0
Sodium	143	276	98.6	4.37	20.0
Thallium	1.54	1.53	99.5	1.96	20.0
Vanadium	143	139	82.0	0.561	20.0
Zinc	143	143	80.7	0.298	20.0

a Acceptability limits as per EPA Contract Laboratory Program.

b Value is outside of acceptability limits.

NA Not applicable; initital sample concentration greater than four times the spike amount.

Project ID (Number): FWH03FWH03
Project ID (Name): HAFB
DO WAD
Holloman, NM
Work Order Number: W6-09-0367
Date Reported: 10-04-96

Table 5
LABORATORY CONTROL SAMPLE RESULTS
Metals in Soil

Analyte	Expected Result, mg/Kg	Observed Result, mg/Kg	Recovery, %	Acceptability Limits, %[a]
Aluminum	200	191	95.4	80-120
Antimony	200	190	95.1	80-120
Arsenic	4.00	4.05	101	80-120
Barium (LCS)	200	193	96.5	80-120
Beryllium	80.0	78.3	97.9	80-120
Cadmium	101	94.4	93.4	80-120
Calcium	200	190	95.0	80-120
Chromium	200	194	97.0	80-120
Cobalt	200	194	97.0	80-120
Copper	200	196	98.8	80-120
Iron	200	196	97.8	80-120
Lead	2.00	1.97	98.5	80-120
Magnesium	200	188	94.0	80-120
Manganese (LCS)	200	195	97.4	80-120
Mercury	0.333	0.284	85.3	75-125
Nickel	200	194	97.1	80-120
Potassium (LCS)	1000	880	88.0	80-120
Selenium	4.00	4.02	100	80-120
Silver	40.0	38.0	94.9	80-120
Sodium	200	196	98.2	80-120
Thallium	2.00	1.94	97.0	80-120
Vanadium	200	193	96.6	80-120
Zinc	200	189	94.4	80-120
Barium (LCSD)	200	193	96.7	80-120
Manganese (LCSD)	200	195	97.5	80-120
Potassium (LCSD)	1000	918	91.8	80-120

Acceptability limits established by laboratory practice.

ANALYTICAL RESULTS
Volatile Organics

GTEL Client ID: FWH03FWH03
Login Number: W6090367
Project ID (number): FWH03FWH03
Project ID (name): HAFB/DO WAD/HOLLOMAN/NM

Method: EPA 8240B
Matrix: Aqueous

GTEL Sample Number	W6090367-09	--	--	--
Client ID	TB-17	--	--	--
Date Sampled		--	--	--
Date Analyzed	09/25/96	--	--	--
Dilution Factor	1.00	--	--	--

Analyte	Reporting Limit	Units	Concentration:			
Chloromethane	10.	ug/L	< 10.	--	--	--
Bromomethane	10.	ug/L	< 10.	--	--	--
Vinyl chloride	10.	ug/L	< 10.	--	--	--
Chloroethane	10.	ug/L	< 10.	--	--	--
Methylene chloride	5.0	ug/L	11.	--	--	--
Acetone	20.	ug/L	< 20.	--	--	--
Carbon disulfide	5.0	ug/L	< 5.0	--	--	--
1,1-Dichloroethene	5.0	ug/L	< 5.0	--	--	--
1,1-Dichloroethane	5.0	ug/L	< 5.0	--	--	--
cis-1,2-Dichloroethene	5.0	ug/L	< 5.0	--	--	--
trans-1,2-Dichloroethene	5.0	ug/L	< 5.0	--	--	--
Chloroform	5.0	ug/L	< 5.0	--	--	--
1,2-Dichloroethane	5.0	ug/L	< 5.0	--	--	--
2-Butanone	20.	ug/L	< 20.	--	--	--
1,1,1-Trichloroethane	5.0	ug/L	< 5.0	--	--	--
Carbon tetrachloride	5.0	ug/L	< 5.0	--	--	--
Vinyl acetate	20.	ug/L	< 20.	--	--	--
Bromodichloromethane	5.0	ug/L	< 5.0	--	--	--
1,2-Dichloropropane	5.0	ug/L	< 5.0	--	--	--
cis-1,3-Dichloropropene	5.0	ug/L	< 5.0	--	--	--
Trichloroethene	5.0	ug/L	< 5.0	--	--	--
Dibromochloromethane	5.0	ug/L	< 5.0	--	--	--
1,1,2-Trichloroethane	5.0	ug/L	< 5.0	--	--	--
Benzene	5.0	ug/L	< 5.0	--	--	--
2-Chloroethylvinyl ether	10.	ug/L	< 10.	--	--	--
trans-1,3-Dichloropropene	5.0	ug/L	< 5.0	--	--	--
Bromoform	5.0	ug/L	< 5.0	--	--	--
4-Methyl-2-pentanone	20.	ug/L	< 20.	--	--	--
2-Hexanone	20.	ug/L	< 20.	--	--	--
Tetrachloroethene	5.0	ug/L	< 5.0	--	--	--
1,1,2,2-Tetrachloroethane	5.0	ug/L	< 5.0	--	--	--
Toluene	5.0	ug/L	< 5.0	--	--	--
Chlorobenzene	5.0	ug/L	< 5.0	--	--	--
Ethylbenzene	5.0	ug/L	< 5.0	--	--	--
Styrene	5.0	ug/L	< 5.0	--	--	--
Xylenes (total)	5.0	ug/L	< 5.0	--	--	--
1,2-Dichlorobenzene	10.	ug/L	< 10.	--	--	--
1,3-Dichlorobenzene	10.	ug/L	< 10.	--	--	--
1,4-Dichlorobenzene	10.	ug/L	< 10.	--	--	--

ANALYTICAL RESULTS
Volatile Organics

GTEL Client ID: FWH03FWH03
Login Number: W6090367
Project ID (number): FWH03FWH03
Project ID (name): HAFB/DO WAD/HOLLOMAN/NM

Method: EPA 8240B
Matrix: Aqueous

GTEL Sample Number	W6090367-09	--	--	--
Client ID	TB-17	--	--	--
Date Sampled		--	--	--
Date Analyzed	09/25/96	--	--	--
Dilution Factor	1.00	--	--	--

Analyte	Reporting Limit	Units	Concentration:

Notes:

Dilution Factor:

Dilution factor indicates the adjustments made for sample dilution.

EPA 8240B:

"Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW-846, Third Edition including promulgated Update II.

W6090367-09:

Methylene chloride is a common laboratory contaminant.

GTEL Client ID: FWH03FWH03
Login Number: W6090367
Project ID (number): FWH03FWH03
Project ID (name): HAFB/DO WAD/HOLLOMAN/NM

QUALITY CONTROL RESULTS

Volatile Organics
Method: EPA 8240B
Matrix: Aqueo

Conformance/Non-Conformance Summary

(X = Requirements Met * = See Comments -- = Not Required NA = Not Applicable)

Conformance Item	Volatile Organics	Semi-Volatile Organics	Inorganics (MT, WC)
GC/MS Tune	--	--	NA
Initial Calibration	--	--	--
Continuing Calibration	--	--	--
Surrogate Recovery	X	--	NA
Holding Time	--	--	--
Method Accuracy	X	--	--
Method Precision	X	--	--
Blank Contamination	*	--	--

Comments:

GTEL Client ID: FWH03FWH03
Login Number: W6090367
Project ID (number): FWH03FWH03
Project ID (name): HAFB/DO WAD/HOLLOMAN/NM

QUALITY CONTROL RESULTS

Volatile Organics
Method: EPA 8240B
Matrix: Aqueous

Surrogate Results

QC Batch No.	Reference	Sample ID	DCA-D4	TOL-D8	4-BFB
Method: EPA 8240B		Acceptability Limits:	76-114%	88-110%	86-115%
091396HP4-1	BW091396HP4	Method Blank Water	93.2	97.4	95.8
091396HP4-2	LW091396HP4	Laboratory Control	98.1	99.4	106.
091396HP4-3	LWD91396HP4	LCS Water Duplicat	98.6	99.0	104.
091396HP4-4	MS09011101	Matrix Spike	99.7	107.	107.
091396HP4-5	MD09011101	Matrix Spike Dupli	101.	106.	107.
--	09036709	TB-17	99.8	97.4	104.

Notes:
*: Indicates values outside of acceptability limits. See Nonconformance Summary.

GTEL Client ID: FWH03FWH03
Login Number: W6090367
Project ID (number): FWH03FWH03
Project ID (name): HAFB/DO WAD/HOLLOMAN/NM

QUALITY CONTROL RESULTS

Volatile Organics
Method: EPA 8240B
Matrix: Aqu

Method Blank Results

QC Batch No: 091396HP4-1
Date Analyzed: 13-SEP-96

Analyte	Method:EPA 8240B	Concentration: ug/L
Chloromethane	< 10.0	
Bromomethane	< 10.0	
Vinyl chloride	< 10.0	
Chloroethane	< 10.0	
Methylene chloride	10.7*	
Acetone	< 20.0	
Carbon disulfide	< 5.00	
1,1-Dichloroethene	< 5.00	
1,1-Dichloroethane	< 5.00	
cis-1,2-Dichloroethene	< 5.00	
trans-1,2-Dichloroethene	< 5.00	
Chloroform	< 5.00	
1,2-Dichloroethane	< 5.00	
2-Butanone	< 20.0	
1,1,1-Trichloroethane	< 5.00	
Carbon tetrachloride	< 5.00	
Vinyl acetate	< 20.0	
Bromodichloromethane	< 5.00	
1,2-Dichloropropane	< 5.00	
cis-1,3-Dichloropropene	< 5.00	
Trichloroethene	< 5.00	
Dibromochloromethane	< 5.00	
1,1,2-Trichloroethane	< 5.00	
Benzene	< 5.00	
2-Chloroethyl vinyl ether	< 10.0	
trans-1,3-Dichloropropene	< 5.00	
Bromoform	< 5.00	
4-Methyl-2-pentanone	< 20.0	
2-Hexanone	< 20.0	
Tetrachloroethene	< 5.00	
1,1,2,2-Tetrachloroethane	< 5.00	
Toluene	< 5.00	
Chlorobenzene	< 5.00	
Ethylbenzene	< 5.00	
Styrene	< 5.00	
Xylenes (Total)	< 5.00	
1,2-Dichlorobenzene	< 10.0	
1,3-Dichlorobenzene	< 10.0	
1,4-Dichlorobenzene	< 10.0	

Notes:
091396HP4-1: Methylene chloride is a common laboratory contaminant.

GTEL Client ID: FWH03FWH03
Login Number: W6090367
Project ID (number): FWH03FWH03
Project ID (name): HAFB/DO WAD/HOLLOMAN/NM

QUALITY CONTROL RESULTS

Volatile Organics
Method: EPA 8240B
Matrix: Aqueous

Matrix Spike(MS) and Matrix Spike Duplicate(MSD) Results

GTEL Sample ID:W6090111-01 MS ID:MS09011101 MSD ID:MD09011101
Analysis Date: 13-SEP-96 16-SEP-96 16-SEP-96

Units: ug/L	Sample	Spikes Added		MS	MS	MSD	MSD		Acceptability Limits	
Analyte	Conc.	MS	MSD	Conc.	% Rec.	Conc.	% Rec.	RPD	RPD	%Rec.
1,1-Dichloroethene	< 5.00(0.319)	50.0	50.0	44.2	87.8	44.0	87.4	0.500	14	61-145
Trichloroethene	48.2 (48.2)	50.0	50.0	92.2	88.0	92.3	88.2	0.200	14	71-120
Benzene	< 5.00(0.000)	50.0	50.0	49.4	98.8	49.9	99.8	1.00	11	76-127
Toluene	< 5.00(0.000)	50.0	50.0	53.0	106.	52.5	105.	0.900	13	76-125
Chlorobenzene	< 5.00(0.000)	50.0	50.0	50.4	101.	50.1	100.	1.00	13	75-130

Notes:
Values in parentheses in the sample concentration column are used for % recovery calculations.

GTEL Client ID: FWH03FWH03
Login Number: W6090367
Project ID (number): FWH03FWH03
Project ID (name): HAFB/DO WAD/HOLLOMAN/NM

QUALITY CONTROL RESULTS

Volatile Organics
Method: EPA 8240B
Matrix: Aque

Laboratory Control Sample (LCS) and Laboratory Control Duplicate Results

Analyte	Spike Amount	LCS Concentration	LCS Recovery, %	LCS Duplicate Concentration	LCS Duplicate Recovery, %	RPD, %	Acceptability Limits RPD, %	Acceptability Limits Recovery, %
EPA 8240B Units: ug/L		QC Batch:091396HP4-3						
1,1-Dichloroethene	50.0	42.2	84.4	43.5	87.0	3.03	14	61-145%
Trichloroethene	50.0	48.2	96.4	49.3	98.6	2.26	14	71-120%
Benzene	50.0	45.9	91.8	47.5	95.0	3.43	11	76-127%
Toluene	50.0	47.7	95.4	48.7	97.4	2.07	13	76-125%
Chlorobenzene	50.0	48.8	97.6	50.4	101.	3.42	13	75-130%

Notes:

ANALYTICAL RESULTS
Volatile Organics

GTEL Client ID: FWH03FWH03
gin Number: W6090367
oject ID (number): FWH03FWH03
Project ID (name): HAFB/DO WAD/HOLLOMAN/NM

Method: EPA 8240B
Matrix: Low Soil

GTEL Sample Number		W6090367-01	W6090367-02	W6090367-03	W6090367-04
Client ID		SWMU3-4-1	SWMU3-4-2	SWMU3-4-3	SWMU3-4-4
Date Sampled		09/19/96	09/19/96	09/19/96	09/19/96
Date Analyzed		09/23/96	09/23/96	09/23/96	09/25/96
Dilution Factor		1.00	1.00	1.00	1.00
Analyte	Reporting Limit / Units	Concentration:Dry Weight			
Chloromethane	10. ug/kg	< 10.	< 10.	< 10.	< 10.
Bromomethane	10. ug/kg	< 10.	< 10.	< 10.	< 10.
Vinyl chloride	10. ug/kg	< 10.	< 10.	< 10.	< 10.
Chloroethane	10. ug/kg	< 10.	< 10.	< 10.	< 10.
Methylene chloride	10. ug/kg	10.	12.	< 10.	< 10.
Acetone	20. ug/kg	< 20.	< 20.	< 20.	< 20.
Carbon disulfide	5.0 ug/kg	< 5.0	< 5.0	< 5.0	< 5.0
1,1-Dichloroethene	5.0 ug/kg	< 5.0	< 5.0	< 5.0	< 5.0
1,1-Dichloroethane	5.0 ug/kg	< 5.0	< 5.0	< 5.0	< 5.0
cis-1,2-Dichloroethene	5.0 ug/kg	< 5.0	< 5.0	< 5.0	< 5.0
trans-1,2-Dichloroethene	5.0 ug/kg	< 5.0	< 5.0	< 5.0	< 5.0
Chloroform	5.0 ug/kg	< 5.0	< 5.0	< 5.0	< 5.0
1,2-Dichloroethane	5.0 ug/kg	< 5.0	< 5.0	< 5.0	< 5.0
-Butanone	20. ug/kg	< 20.	< 20.	< 20.	< 20.
1,1-Trichloroethane	5.0 ug/kg	< 5.0	< 5.0	< 5.0	< 5.0
Carbon tetrachloride	5.0 ug/kg	< 5.0	< 5.0	< 5.0	< 5.0
Vinyl acetate	20. ug/kg	< 20.	< 20.	< 20.	< 20.
Bromodichloromethane	5.0 ug/kg	< 5.0	< 5.0	< 5.0	< 5.0
1,2-Dichloropropane	5.0 ug/kg	< 5.0	< 5.0	< 5.0	< 5.0
cis-1,3-Dichloropropene	5.0 ug/kg	< 5.0	< 5.0	< 5.0	< 5.0
Trichloroethene	5.0 ug/kg	< 5.0	< 5.0	< 5.0	< 5.0
Dibromochloromethane	5.0 ug/kg	< 5.0	< 5.0	< 5.0	< 5.0
1,1,2-Trichloroethane	5.0 ug/kg	< 5.0	< 5.0	< 5.0	< 5.0
Benzene	5.0 ug/kg	< 5.0	< 5.0	< 5.0	< 5.0
2-Chloroethylvinyl ether	10. ug/kg	< 10.	< 10.	< 10.	< 10.
trans-1,3-Dichloropropene	5.0 ug/kg	< 5.0	< 5.0	< 5.0	< 5.0
Bromoform	5.0 ug/kg	< 5.0	< 5.0	< 5.0	< 5.0
4-Methyl-2-pentanone	20. ug/kg	< 20.	< 20.	< 20.	< 20.
2-Hexanone	20. ug/kg	< 20.	< 20.	< 20.	< 20.
Tetrachloroethene	5.0 ug/kg	< 5.0	< 5.0	< 5.0	< 5.0
1,1,2,2-Tetrachloroethane	5.0 ug/kg	< 5.0	< 5.0	< 5.0	< 5.0
Toluene	5.0 ug/kg	< 5.0	< 5.0	< 5.0	< 5.0
Chlorobenzene	5.0 ug/kg	< 5.0	< 5.0	< 5.0	< 5.0
Ethylbenzene	5.0 ug/kg	< 5.0	< 5.0	< 5.0	< 5.0
Styrene	5.0 ug/kg	< 5.0	< 5.0	< 5.0	< 5.0
Xylenes (total)	5.0 ug/kg	< 5.0	< 5.0	< 5.0	< 5.0
1,2-Dichlorobenzene	10. ug/kg	< 10.	< 10.	< 10.	< 10.
1,3-Dichlorobenzene	10. ug/kg	< 10.	< 10.	< 10.	< 10.
1,4-Dichlorobenzene	10. ug/kg	< 10.	< 10.	< 10.	< 10.

ANALYTICAL RESULTS
Volatile Organics

GTEL Client ID: FWH03FWH03
Login Number: W6090367
Project ID (number): FWH03FWH03
Project ID (name): HAFB/DO WAD/HOLLOMAN/NM

Method: EPA 8240B
Matrix: Low Soil

GTEL Sample Number	W6090367-01	W6090367-02	W6090367-03	W6090367-04
Client ID	SWMU3-4-1	SWMU3-4-2	SWMU3-4-3	SWMU3-4-4
Date Sampled	09/19/96	09/19/96	09/19/96	09/19/96
Date Analyzed	09/23/96	09/23/96	09/23/96	09/25/96
Dilution Factor	1.00	1.00	1.00	1.00

Analyte	Reporting Limit	Units	Concentration:Dry Weight			
Percent Solids	--	%	71.6	75.5	80.8	79.2

Notes:

Dilution Factor:

Dilution factor indicates the adjustments made for sample dilution.

EPA 8240B:

"Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW-846, Third Edition including promulgated Update II.

W6090367-01:

Methylene chloride is a common laboratory contaminant.

W6090367-02:

Methylene chloride is a common laboratory contaminant.

ANALYTICAL RESULTS
Volatile Organics

GTEL Client ID: FWH03FWH03
ogin Number: W6090367
roject ID (number): FWH03FWH03
Project ID (name): HAFB/DO WAD/HOLLOMAN/NM

Method: EPA 8240B
Matrix: Low Soil

GTEL Sample Number		W6090367-05	W6090367-06	W6090367-07	W6090367-08
Client ID		SWMU3-4-5	SWMU3-4-6	SWMU3-4-7	SWMU3-4-8
Date Sampled		09/19/96	09/19/96	09/19/96	09/19/96
Date Analyzed		09/24/96	09/25/96	09/24/96	09/25/96
Dilution Factor		1.00	1.00	1.00	1.00
Analyte	Reporting Limit / Units	Concentration:Dry Weight			
Chloromethane	10. ug/kg	< 10.	< 10.	< 10.	< 10.
Bromomethane	10. ug/kg	< 10.	< 10.	< 10.	< 10.
Vinyl chloride	10. ug/kg	< 10.	< 10.	< 10.	< 10.
Chloroethane	10. ug/kg	< 10.	< 10.	< 10.	< 10.
Methylene chloride	10. ug/kg	< 10.	< 10.	< 10.	< 10.
Acetone	20. ug/kg	< 20.	< 20.	< 20.	< 20.
Carbon disulfide	5.0 ug/kg	< 5.0	< 5.0	< 5.0	< 5.0
1,1-Dichloroethene	5.0 ug/kg	< 5.0	< 5.0	< 5.0	< 5.0
1,1-Dichloroethane	5.0 ug/kg	< 5.0	< 5.0	< 5.0	< 5.0
cis-1,2-Dichloroethene	5.0 ug/kg	< 5.0	< 5.0	< 5.0	< 5.0
trans-1,2-Dichloroethene	5.0 ug/kg	< 5.0	< 5.0	< 5.0	< 5.0
Chloroform	5.0 ug/kg	< 5.0	< 5.0	< 5.0	< 5.0
1,2-Dichloroethane	5.0 ug/kg	< 5.0	< 5.0	< 5.0	< 5.0
2-Butanone	20. ug/kg	< 20.	< 20.	< 20.	< 20.
,1,1-Trichloroethane	5.0 ug/kg	< 5.0	< 5.0	< 5.0	< 5.0
Carbon tetrachloride	5.0 ug/kg	< 5.0	< 5.0	< 5.0	< 5.0
Vinyl acetate	20. ug/kg	< 20.	< 20.	< 20.	< 20.
Bromodichloromethane	5.0 ug/kg	< 5.0	< 5.0	< 5.0	< 5.0
1,2-Dichloropropane	5.0 ug/kg	< 5.0	< 5.0	< 5.0	< 5.0
cis-1,3-Dichloropropene	5.0 ug/kg	< 5.0	< 5.0	< 5.0	< 5.0
Trichloroethene	5.0 ug/kg	< 5.0	< 5.0	< 5.0	< 5.0
Dibromochloromethane	5.0 ug/kg	< 5.0	< 5.0	< 5.0	< 5.0
1,1,2-Trichloroethane	5.0 ug/kg	< 5.0	< 5.0	< 5.0	< 5.0
Benzene	5.0 ug/kg	< 5.0	< 5.0	< 5.0	< 5.0
2-Chloroethylvinyl ether	10. ug/kg	< 10.	< 10.	< 10.	< 10.
trans-1,3-Dichloropropene	5.0 ug/kg	< 5.0	< 5.0	< 5.0	< 5.0
Bromoform	5.0 ug/kg	< 5.0	< 5.0	< 5.0	< 5.0
4-Methyl-2-pentanone	20. ug/kg	< 20.	< 20.	< 20.	< 20.
2-Hexanone	20. ug/kg	< 20.	< 20.	< 20.	< 20.
Tetrachloroethene	5.0 ug/kg	< 5.0	< 5.0	< 5.0	< 5.0
1,1,2,2-Tetrachloroethane	5.0 ug/kg	< 5.0	< 5.0	< 5.0	< 5.0
Toluene	5.0 ug/kg	< 5.0	< 5.0	< 5.0	< 5.0
Chlorobenzene	5.0 ug/kg	< 5.0	< 5.0	< 5.0	< 5.0
Ethylbenzene	5.0 ug/kg	< 5.0	< 5.0	< 5.0	< 5.0
Styrene	5.0 ug/kg	< 5.0	< 5.0	< 5.0	< 5.0
Xylenes (total)	5.0 ug/kg	< 5.0	< 5.0	< 5.0	< 5.0
1,2-Dichlorobenzene	10. ug/kg	< 10.	< 10.	< 10.	< 10.
1,3-Dichlorobenzene	10. ug/kg	< 10.	< 10.	< 10.	< 10.
1,4-Dichlorobenzene	10. ug/kg	< 10.	< 10.	< 10.	< 10.

ANALYTICAL RESULTS
Volatile Organics

GTEL Client ID: FWH03FWH03
Login Number: W6090367
Project ID (number): FWH03FWH03
Project ID (name): HAFB/DO WAD/HOLLOMAN/NM

Method: EPA 8240B
Matrix: Low Soil

GTEL Sample Number	W6090367-05	W6090367-06	W6090367-07	W6090367-08
Client ID	SWMU3-4-5	SWMU3-4-6	SWMU3-4-7	SWMU3-4-8
Date Sampled	09/19/96	09/19/96	09/19/96	09/19/96
Date Analyzed	09/24/96	09/25/96	09/24/96	09/25/96
Dilution Factor	1.00	1.00	1.00	1.00

Analyte	Reporting Limit	Units	Concentration:Dry Weight			
Percent Solids	--	%	73.4	73.7	94.1	77.9

Notes:

Dilution Factor:

Dilution factor indicates the adjustments made for sample dilution.

EPA 8240B:

"Test Methods for Evaluating Solid Waste. Physical/Chemical Methods". SW-846. Third Edition including promulgated Update II.

W6090367-05:

Methylene chloride is a common laboratory contaminant.

GTEL Client ID: FWH03FWH03
Login Number: W6090367
Project ID (number): FWH03FWH03
Project ID (name): HAFB/DO WAD/HOLLOMAN/NM

QUALITY CONTROL RESULTS

Volatile Organics
Method: EPA 8240B
Matrix: Low Soil

Conformance/Non-Conformance Summary

(X = Requirements Met * = See Comments -- = Not Required NA = Not Applicable)

Conformance Item	Volatile Organics	Semi-Volatile Organics	Inorganics (MT, WC)
GC/MS Tune	--	--	NA
Initial Calibration	--	--	--
Continuing Calibration	--	--	--
Surrogate Recovery	X	--	NA
Holding Time	X	--	--
Method Accuracy	X	--	--
Method Precision	X	--	--
Blank Contamination	X	--	--

Comments:

GTEL Client ID: FWH03FWH03
Login Number: W6090367
Project ID (number): FWH03FWH03
Project ID (name): HAFB/DO WAD/HOLLOMAN/NM

QUALITY CONTROL RESULTS

Volatile Organics
Method: EPA 8240B
Matrix: Low S

Surrogate Results

QC Batch No.	Reference	Sample ID	DCA-D4	TOL-D8	4-BFB
Method: EPA 8240B		Acceptability Limits:	70-121%	81-117%	74-121%
092396HP4-1	BL092396HP4	Method blanks low	91.4	96.8	104.
092396HP4-2	LS092396HP4	Laboratory control	101.	96.3	114.
092396HP4-3	LSD92396HP4	LCS Soil Duplicate	101.	98.6	114.
092396HP4-4	MS09036708	Matrix Spike	109.	96.6	116.
092396HP4-5	MD09036708	Matrix Spike Dupli	114.	96.8	118.
--	09036701	SWMU3-4-1	106.	93.8	102.
--	09036702	SWMU3-4-2	108.	94.2	106.
--	09036703	SWMU3-4-3	97.5	95.6	103.
--	09036704	SWMU3-4-4	97.0	98.6	108.
--	09036705	SWMU3-4-5	87.9	96.7	105.
--	09036706	SWMU3-4-6	99.3	96.7	106.
--	09036707	SWMU3-4-7	110.	89.5	103.
--	09036708	SWMU3-4-8	105.	95.1	104.

Notes:
*: Indicates values outside of acceptability limits. See Nonconformance Summary.

GTEL Client ID: FWH03FWH03
Login Number: W6090367
oject ID (number): FWH03FWH03
oject ID (name): HAFB/DO WAD/HOLLOMAN/NM

QUALITY CONTROL RESULTS

Volatile Organics
Method: EPA 8240B
Matrix: Low Soil

Method Blank Results

QC Batch No: 092396HP4-1
Date Analyzed: 23-SEP-96

Analyte	Method: EPA 8240B	Concentration: ug/kg
Chloromethane	< 10.0	
Bromomethane	< 10.0	
Vinyl chloride	< 10.0	
Chloroethane	< 10.0	
Methylene chloride	< 10.0	
Acetone	< 20.0	
Carbon disulfide	< 5.00	
1,1-Dichloroethene	< 5.00	
1,1-Dichloroethane	< 5.00	
cis-1,2-Dichloroethene	< 5.00	
trans-1,2-Dichloroethene	< 5.00	
Chloroform	< 5.00	
1,2-Dichloroethane	< 5.00	
2-Butanone	< 20.0	
1,1,1-Trichloroethane	< 5.00	
Carbon tetrachloride	< 5.00	
Vinyl acetate	< 20.0	
Bromodichloromethane	< 5.00	
2-Dichloropropane	< 5.00	
cis-1,3-Dichloropropene	< 5.00	
Trichloroethene	< 5.00	
Dibromochloromethane	< 5.00	
1,1,2-Trichloroethane	< 5.00	
Benzene	< 5.00	
2-Chloroethyl vinyl ether	< 10.0	
trans-1,3-Dichloropropene	< 5.00	
Bromoform	< 5.00	
4-Methyl-2-pentanone	< 20.0	
2-Hexanone	< 20.0	
Tetrachloroethene	< 5.00	
1,1,2,2-Tetrachloroethane	< 5.00	
Toluene	< 5.00	
Chlorobenzene	< 5.00	
Ethylbenzene	< 5.00	
Styrene	< 5.00	
Xylenes (Total)	< 5.00	
1,2-Dichlorobenzene	< 10.0	
1,3-Dichlorobenzene	< 10.0	
1,4-Dichlorobenzene	< 10.0	

Notes:

GTEL Client ID: FWH03FWH03
Login Number: W6090367
Project ID (number): FWH03FWH03
Project ID (name): HAFB/DO WAD/HOLLOMAN/NM

QUALITY CONTROL RESULTS

Volatile Organics
Method: EPA 8240B
Matrix: Low S

Matrix Spike(MS) and Matrix Spike Duplicate(MSD) Results

GTEL Sample ID:W6090367-08 MS ID:MS09036708 MSD ID:MD09036708
Analysis Date: 25-SEP-96 24-SEP-96 24-SEP-96

Units: ug/kg	Sample	Spikes Added		MS	MS	MSD	MSD		Acceptability Limits	
Analyte	Conc.	MS	MSD	Conc.	% Rec.	Conc.	% Rec.	RPD	RPD	%Rec.
1,1-Dichloroethene	< 5.0 (0.000)	50.0	50.0	41.4	82.8	43.2	86.4	4.30	24	59-172
Trichloroethene	< 5.0 (0.000)	50.0	50.0	46.4	92.8	49.3	98.6	6.10	22	62-137
Benzene	< 5.0 (0.000)	50.0	50.0	44.6	89.2	47.0	94.0	5.20	21	66-142
Toluene	< 5.0 (0.000)	50.0	50.0	44.2	88.4	46.0	92.0	4.00	21	59-139
Chlorobenzene	< 5.0 (0.000)	50.0	50.0	46.5	93.0	48.4	96.8	4.00	21	60-133

Notes:
Values in parentheses in the sample concentration column are used for % recovery calculations.

GTEL Client ID: FWH03FWH03
Login Number: W6090367
Project ID (number): FWH03FWH03
Project ID (name): HAFB/DO WAD/HOLLOMAN/NM

QUALITY CONTROL RESULTS

Volatile Organics
Method: EPA 8240B
Matrix: Low Soil

Laboratory Control Sample (LCS) and Laboratory Control Duplicate Results

Analyte	Spike Amount	LCS Concentration	LCS Recovery, %	LCS Duplicate Concentration	LCS Duplicate Recovery, %	RPD, %	Acceptability Limits RPD, %	Acceptability Limits Recovery, %
EPA 8240B Units: ug/kg		QC Batch:092396HP4-3						
1,1-Dichloroethene	50.0	42.7	85.4	43.6	87.2	2.09	22	59-172%
Trichloroethene	50.0	48.6	97.2	48.2	96.4	0.826	24	62-137%
Benzene	50.0	47.1	94.2	47.5	95.0	0.846	21	66-142%
Toluene	50.0	47.5	95.0	47.5	95.0	0.00	21	59-139%
Chlorobenzene	50.0	48.9	97.8	48.4	96.8	1.03	21	60-133%

Notes:

NEI/GTEL
ENVIRONMENTAL LABORATORIES, INC.

Midwest Region
4211 May Avenue
Wichita, KS 67209
(316) 945-2624
(800) 633-7936
(316) 945-0506 (FAX)

September 20, 1996

Dan Holmquist
Foster Wheeler Environmental Corporation
241 Arkansas St. /Behind Rv Storage
Holloman A F B, NM 88330

RE:	GTEL Client ID:	FWH03FWH03
	Login Number:	W6090072
	Project ID (number):	D011 WAD3
	Project ID (name):	HAFB/DO WAD/HOLLOMAN/NM

Dear Dan Holmquist:

Enclosed please find the analytical results for the samples received by GTEL Environmental Laboratories, Inc. on 09/06/96 under Chain-of-Custody Number(s) 44481.

A formal Quality Assurance/Quality Control (QA/QC) program is maintained by GTEL, which is designed to meet or exceed the EPA requirements. Analytical work for this project met QA/QC criteria unless otherwise stated in the footnotes. This report is to be reproduced only in full.

NEI/GTEL is certified by the U.S. Army Corp of Engineers Laboratory Validation, expiration date March 18, 1997.

If you have any questions regarding this analysis, or if we can be of further assistance, please call our Customer Service Representative.

Sincerely,
GTEL Environmental Laboratories, Inc.

John O. Sattler
QA/QC Manager for,
Terry R. Loucks
Laboratory Director

RECEIVED SEP 23 1996

ANALYTICAL RESULTS
Organochlorine Pesticides and/or PCB's

GTEL Client ID: FWH03FWH03
Login Number: W6090072
Project ID (number): D011 WAD3
Project ID (name): HAFB/DO WAD/HOLLOMAN/NM

Method: EPA 8081
Matrix: Solids

GTEL Sample Number	W6090072-01	W6090072-02	W6090072-03	W6090072-04
Client ID	SWMU3SP01	SWMU3SP02	SWMU3SP03	SWMU3SP04
Date Sampled	09/04/96	09/04/96	09/04/96	09/04/96
Date Prepared	09/10/96	09/10/96	09/10/96	09/10/96
Date Analyzed	09/16/96	09/17/96	09/17/96	09/17/96
Dilution Factor	1.00	1.00	1.00	1.00

Analyte	Reporting Limit	Units	Concentration:Wet Weight			
PCB - Aroclor 1221	10.	ug/kg	< 10.	< 10.	< 10.	< 10.
PCB - Aroclor 1232	10.	ug/kg	< 10.	< 10.	< 10.	< 10.
PCB - Aroclor 1242	10.	ug/kg	< 10.	20.	< 10.	< 10.
PCB - Aroclor 1248	10.	ug/kg	< 10.	< 10.	< 10.	< 10.
PCB - Aroclor 1254	10.	ug/kg	< 10.	16.	< 10.	< 10.
PCB - Aroclor 1260	10.	ug/kg	< 10.	< 10.	< 10.	< 10.
Percent Solids	--	%	77.0	80.1	79.9	82.7

Notes:

Dilution Factor:

Dilution factor indicates the adjustments made for sample dilution.

EPA 8081:

Extraction by EPA METHOD 3550 (sonication). "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW-846, Third Edition including pdate 2.

GTEL Client ID: FWH03FWH03

QUALITY CONTROL RESULTS

Login Number: W6090072

Organochlorine Pesticides and/or PCB

Project ID (number): D011 WAD3

Method: EPA

Project ID (name): HAFB/DO WAD/HOLLOMAN/NM

Matrix: So

Conformance/Non-Conformance Summary

(X = Requirements Met * = See Comments -- = Not Required NA = Not Applicable)

Conformance Item	Volatile Organics	Semi-Volatile Organics	Inorganics (MT, WC)
GC/MS Tune	--	--	NA
Initial Calibration	--	--	--
Continuing Calibration	--	--	--
Surrogate Recovery	--	X	NA
Holding Time	--	X	--
Method Accuracy	--	X	--
Method Precision	--	X	--
Blank Contamination	--	X	--

Comments:

GTEL Client ID: FWH03FWH03
Login Number: W6090072
Project ID (number): D011 WAD3
oject ID (name): HAFB/DO WAD/HOLLOMAN/NM

QUALITY CONTROL RESULTS

Organochlorine Pesticides and/or PCB
Method: EPA 8081
Matrix: Solids

Surrogate Results

QC Batch No.	Reference	Sample ID	TCMX	DCBP
Method: EPA 8081		Acceptability Limits:	37.7-126%	35.6-155%
091096PCBS-1	BS091096PCB	Method Blank Soil	69.7	95.5
091096PCBS-2	LS091096PCB	Laboratory control	68.6	88.2
091096PCBS-3	LSD091096PCB	LCS Soil Duplicate	62.5	82.9
091096PCBS-4	MS09007201	Matrix Spike	82.1	91.9
091096PCBS-5	MD09007201	Matrix Spike Dupli	81.8	90.3
--	09007201	SWMU3SP01	89.9	96.7
--	09007202	SWMU3SP02	103.	120.
--	09007203	SWMU3SP03	82.5	91.1
--	09007204	SWMU3SP04	81.9	85.2

Notes:

*: Indicates values outside of acceptability limits. See Nonconformance Summary.

Per EPA method 8080, data is acceptable as long as at least one surrogate has a recovery within acceptability limits.

Acceptability limits are derived from statistical analysis of laboratory samples.

GTEL Client ID: FWH03FWH03
Login Number: W6090072
Project ID (number): D011 WAD3
Project ID (name): HAFB/DO WAD/HOLLOMAN/NM

QUALITY CONTROL RESULTS

Organochlorine Pesticides and/or PCB
Method: EPA 8
Matrix: Sol

Method Blank Results

QC Batch No: 091096PCBS-1
Date Analyzed: 16-SEP-96

Analyte	Method:EPA 8081	Concentration: ug/kg
PCB - Aroclor 1221	< 10.0	
PCB - Aroclor 1232	< 10.0	
PCB - Aroclor 1242 (1016)	< 10.0	
PCB - Aroclor 1248	< 10.0	
PCB - Aroclor 1254	< 10.0	
PCB - Aroclor 1260	< 10.0	

Notes:

GTEL Client ID: FWH03FWH03
Login Number: W6090072
Project ID (number): D011 WAD3
Project ID (name): HAFB/DO WAD/HOLLOMAN/NM

QUALITY CONTROL RESULTS

Organochlorine Pesticides and/or PCB
Method: EPA 8081
Matrix: Solids

Matrix Spike(MS) and Matrix Spike Duplicate(MSD) Results

GTEL Sample ID:W6090072-01 MS ID:MS09007201 MSD ID:MD09007201
Analysis Date: 16-SEP-96 16-SEP-96 16-SEP-96

Units: ug/kg	Sample	Spikes Added		MS	MS	MSD	MSD		Acceptability Limits	
Analyte	Conc.	MS	MSD	Conc.	% Rec.	Conc.	% Rec.	RPD	RPD	%Rec.
PCB - Aroclor 1260	< 10.0(3.53)	82.2	81.8	83.7	97.5	81.1	94.8	2.80	30	10-127

Notes:
Values in parentheses in the sample concentration column are used for % recovery calculations.
Acceptability limits are derived from EPA Method 8080 criteria.

GTEL Client ID: FWH03FWH03

QUALITY CONTROL RESULTS

Login Number: W6090072

Organochlorine Pesticides and/or PCB

Project ID (number): D011 WAD3

Method: EPA 8081

Project ID (name): HAFB/DO WAD/HOLLOMAN/NM

Matrix: So

Laboratory Control Sample (LCS) and Laboratory Control Duplicate Results

Analyte	Spike Amount	LCS Concentration	LCS Recovery, %	LCS Duplicate Concentration	LCS Duplicate Recovery, %	RPD, %	Acceptability Limits RPD, %	Acceptability Limits Recovery, %
EPA 8081 Units: ug/kg	QC Batch:091096PCBS-3							
PCB - Aroclor 1260	83.3	71.1	86.0	78.3	94.9	9.84	30	10-127%

Notes:

Acceptability limits are derived from EPA Method 8080 criteria.

ANALYTICAL RESULTS
Volatile Organics

GTEL Client ID: FWH03FWH03
'^qin Number: W6090072
ject ID (number): D011 WAD3
Project ID (name): HAFB/DO WAD/HOLLOMAN/NM

Method: EPA 1311/8240
Matrix: Solids

GTEL Sample Number	W6090072-01	W6090072-02	W6090072-03	W6090072-04
Client ID	SWMU3SP01	SWMU3SP02	SWMU3SP03	SWMU3SP04
Date Sampled	09/04/96	09/04/96	09/04/96	09/04/96
Date Prepared	09/09/96	09/09/96	09/09/96	09/09/96
Date Analyzed	09/11/96	09/11/96	09/11/96	09/11/96
Dilution Factor	1.00	1.00	1.00	1.00

Analyte	Reporting Limit	Units				
Benzene	0.05	mg/L	< 0.05	< 0.05	< 0.05	< 0.05
Carbon tetrachloride	0.05	mg/L	< 0.05	< 0.05	< 0.05	< 0.05
Chlorobenzene	0.05	mg/L	< 0.05	< 0.05	< 0.05	< 0.05
Chloroform	0.05	mg/L	< 0.05	< 0.05	< 0.05	< 0.05
1,2-Dichloroethane	0.05	mg/L	< 0.05	< 0.05	< 0.05	< 0.05
1,1-Dichloroethene	0.05	mg/L	< 0.05	< 0.05	< 0.05	< 0.05
2-Butanone	0.2	mg/L	< 0.2	< 0.2	< 0.2	< 0.2
Tetrachloroethene	0.05	mg/L	< 0.05	< 0.05	< 0.05	< 0.05
Trichloroethene	0.05	mg/L	< 0.05	< 0.05	< 0.05	< 0.05
Vinyl chloride	0.1	mg/L	< 0.1	< 0.1	< 0.1	< 0.1

Notes:

Dilution Factor:

Dilution factor indicates the adjustments made for sample dilution.

_ A 1311/8240:

"Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW-846, Third Edition including Update 2. TCLP is performed as per 40 CFR, Part 261, Appendix II - EPA Method 1311.

W6090072-01:

All samples analyzed by EPA 8260A: "Test Methods for Evaluating Solid Waste. Physical Chemical Methods", SW-846. Third Edition including promulgated Update II.

GTEL Client Number: FWH03FWH03
Project ID (Number): D011 WAD3
Project ID (Name): HAFB DO WAD
Holloman, NM
Work Order Number: W6-09-0072
Date Reported: 09-13-96

QA NONCONFORMANCE SUMMARY

Volatile Organics in TCLP Leachate
EPA Method 8260A

1.0 Sample Handling

1.1 Sample handling and holding time criteria were not met for 0 samples.

2.0 Surrogate Compound Recoveries

2.1 The recovery limits were exceeded for surrogate compounds in 0 samples as shown in Table 2.

3.0 Matrix Spike (MS) Accuracy

3.1 The recovery limits were exceeded in the matrix spike for 1 compound as shown in Table 3.

3.2 Possible matrix induced interference. Laboratory control spikes were in conformance.

4.0 Sample Duplicate Precision

4.1 The maximum percent difference (RPD) was exceeded for 1 compound in the duplicate samples as shown in Table 3A.

4.2 See notation in 3.2 above.

5.0 Method Blanks

5.1 Zero target compound(s) was/were found in the method blank as shown in Table 4.

GTEL Client Number: FWH03FWH03
Project ID (Number): D011 WAD3
Project ID (Name): HAFB DO WAD
Holloman, NM
Work Order Number: W6-09-0072
Date Reported: 09-13-96

Table 2

SURROGATE RECOVERY SUMMARY

Volatile Organics in TCLP Leachate
EPA Method 8260A

GTEL No.	Percent Recovery, %			
	S1 (TOL)	S2 (BFB)	S3 (DCE)	TOTAL OUT
090072-01	101	107	112	0
090072-02	97.2	112	114	0
090072-03	99.5	106	113	0
090072-04	96.5	114	112	0
BT091196HP3	93.6	112	112	0
MS090072-02	98.4	113	111	0
MD090072-02	98.9	113	113	0
LW091196HP3	109	114	114	0
LWD091196HP3	106	114	113	0

	Surrogates		Amount Spiked, ug/L	Recovery Limits[a]
S1	TOL	Toluene-d8	50	88-110
S2	BFB	Bromofluorobenzene	50	86-115
S3	DCE	1,2-Dichloroethane-d4	50	76-114

* Indicates values outside of acceptability limits.
a Acceptability limits are derived from USEPA Contract Laboratory Program (CLP) guidelines.
D Diluted out. Percent Recovery is not calculated when surrogate compound(s) are diluted out.

GTEL Client Number: FWH03FWH03
Project ID (Number): D011 WAD3
Project ID (Name): HAFB DO WAD
Holloman, NM
Work Order Number: W6-09-0072
Date Reported: 09-13-96

Table 3

LABORATORY CONTROL SPIKE (LW) AND LABORATORY CONTROL SPIKE DUPLICATE (LWD)
SUMMARY
PERCENT RECOVERY AND RELATIVE PERCENT DIFFERENCE (RPD)
Volatile Organics in TCLP Extract
Modified EPA Method 8260A

Analyte	Spike Added, ug/L	Sample Concentration, ug/L	LW Concentration, ug/L	LW Percent Recovery	Acceptability Limits, %[a]
Vinyl Chloride	50.0	<10	38.4	76.8	10-251[E]
1,1-Dichloroethene	50.0	<5	43.8	87.6	61-145[G]
Chloroform	50.0	<5	54.7	109	51-138[E]
1,2-Dichloroethane	50.0	<5	60.3	120	49-155[E]
2-Butanone	50.0	<20	42.1	84.2	28-180[F]
Carbon Tetrachloride	50.0	<5	54.5	109	70-140[E]
Trichloroethene	50.0	<5	52.7	105	71-120[G]
Benzene	50.0	<5	53.8	108	76-127[E]
Tetrachloroethene	50.0	<5	56.7	113	64-148[E]
Chlorobenzene	50.0	<5	58.7	117	75-130[G]

Analyte	Spike Added, ug/L	LWD Concentration, ug/L	LWD Percent Recovery	RPD, %	Acceptability Limits	
					RPD	% Recovery
Vinyl Chloride	50.0	37.0	74.0	3.7	65.0[3]	10-251[E]
1,1-Dichloroethene	50.0	42.4	84.8	3.2	14[5]	61-145[G]
Chloroform	50.0	54.6	109	0.0	18.2[3]	51-138[E]
1,2-Dichloroethane	50.0	60.2	120	0.0	20.6[3]	49-155[E]
2-Butanone	50.0	41.5	83.0	1.4	25.0[3]	20-180[F]
Carbon Tetrachloride	50.0	55.1	110	0.9	11.3[3]	70-140[E]
Trichloroethene	50.0	52.7	105	0.0	14[5]	71-120[G]
Benzene	50.0	54.6	109	0.9	11[5]	76-127[E]
Tetrachloroethene	50.0	56.8	114	0.9	15.6[3]	64-148[E]
Chlorobenzene	50.0	56.4	113	3.5	13[5]	75-130[G]

* Indicates values outside of acceptability limits.
E Accuracy limits as published in the EPA methods. (lowest acceptable limit has been tightened to 10% recovery based on laboratory practice)
F Limits based on laboratory practice i.e. provisional limits.
G Acceptability limits are derived from USEPA Contract Laboratory Program (CLP) requirements.
RPD: 0 of 10 outside limits.
Spike Recovery: 0 of 20 outside limits.

GTEL Client Number: FWH03FWH03
Project ID (Number): D011 WAD3
Project ID (Name): HAFB DO WAD
Holloman, NM
Work Order Number: W6-09-0072
Date Reported: 09-13-96

Table 3A

MATRIX SPIKE (MS) AND MATRIX SPIKE DUPLICATE (MSD) SUMMARY
PERCENT RECOVERY AND RELATIVE PERCENT DIFFERENCE (RPD)
Volatile Organics in TCLP Extract
Modified EPA Method 8260A

Sample Spiked: W6090072-02

Analyte	Spike Added, ug/L	Sample Concentration, ug/L	MS Concentration, ug/L	MS Percent Recovery	Acceptability Limits, %[a]
Vinyl Chloride	50.0	<10	43.4	86.8	10-251[E]
1,1-Dichloroethene	50.0	<5	49.0	98.0	61-145[G]
Chloroform	50.0	<5	56.3	113	51-138[E]
1,2-Dichloroethane	50.0	<5	61.9	124	49-155[E]
2-Butanone	50.0	<20	48.4	96.8	28-180[F]
Carbon Tetrachloride	50.0	<5	59.3	119	70-140[E]
Trichloroethene	50.0	<5	59.3	119	71-120[G]
Benzene	50.0	<5	55.0	110	76-127[E]
Tetrachloroethene	50.0	<5	90.7	181	64-148[E]
Chlorobenzene	50.0	<5	55.2	110	75-130[G]

Analyte	Spike Added, ug/L	MSD Concentration, ug/L	MSD Percent Recovery	RPD, %	Acceptability Limits	
					RPD	% Recovery
Vinyl Chloride	50.0	38.6	77.2	11.7	65.0[3]	10-251[E]
1,1-Dichloroethene	50.0	47.0	94.0	4.2	14[5]	61-145[G]
Chloroform	50.0	54.9	110	2.5	18.2[3]	51-138[E]
1,2-Dichloroethane	50.0	59.7	119	3.6	20.6[3]	49-155[E]
2-Butanone	50.0	45.2	90.4	6.8	25.0[3]	20-180[F]
Carbon Tetrachloride	50.0	53.7	107	9.9	11.3[3]	70-140[E]
Trichloroethene	50.0	51.4	103	14.3	14[5]	71-120[G]
Benzene	50.0	54.4	109	1.1	11[5]	76-127[E]
Tetrachloroethene	50.0	56.7	113	46.1	15.6[3]	64-148[E]
Chlorobenzene	50.0	54.8	110	0.7	13[5]	75-130[G]

* Indicates values outside of acceptability limits.
E Accuracy limits as published in the EPA methods. (lowest acceptable limit has been tightened to 10% recovery based on laboratory practice)
F Limits based on laboratory practice i.e. provisional limits.
G Acceptability limits are derived from USEPA Contract Laboratory Program (CLP) requirements.
RPD: 1 of 10 outside limits.
Spike Recovery: 1 of 20 outside limits.

GTEL Client Number: FWH03FWH03
Project ID (Number): D011 WAD3
Project ID (Name): HAFB DO WAD
Holloman, NM
Work Order Number: W6-09-0072
Date Reported: 09-13-96

Table 4

METHOD BLANK RESULTS

Volatile Organics in TCLP Leachate[a]
EPA Method 8260A

	File ID	BT091196HP3
	Date Leached	09-10-96
	Extraction Fluid	Fluid #1
	Date Analyzed	09-11-96
Analyte	Quantitation Limit, mg/L	Concentration, mg/L
Benzene	0.050	<0.050
Carbon tetrachloride	0.050	<0.050
Chlorobenzene	0.050	<0.050
Chloroform	0.050	<0.050
1,2-Dichloroethane	0.050	<0.050
1,1-Dichloroethylene	0.050	<0.050
Methyl ethyl ketone	0.20	<0.20
Tetrachloroethylene	0.050	<0.050
Trichloroethylene	0.050	<0.050
Vinyl chloride	0.10	<0.10

a Test Methods for Evaluating Solid Waste, SW-846, Third Edition, Revision 0, US EPA, November 1986. This method is modified for megabore column use. TCLP is performed as per 40 CFR, Part 261, Appendix II-Method 1311. These data are presented in accordance with the Federal Register 57, p. 55114, November 24, 1992.

ANALYTICAL RESULTS
Volatile Organics

GTEL Client ID: FWH03FWH03
Lin Number: W6090072
Project ID (number): D011 WAD3
Project ID (name): HAFB/DO WAD/HOLLOMAN/NM

Method: EPA 8021A
Matrix: Solids

GTEL Sample Number	W6090072-01	W6090072-02	W6090072-03	W6090072-04
Client ID	SWMU3SP01	SWMU3SP02	SWMU3SP03	SWMU3SP04
Date Sampled	09/04/96	09/04/96	09/04/96	09/04/96
Date Analyzed	09/12/96	09/12/96	09/12/96	09/12/96
Dilution Factor	1.00	1.00	1.00	1.00

Analyte	Reporting Limit	Units	Concentration:Wet Weight			
Benzene	0.05	mg/kg	0.44	< 0.05	< 0.05	0.42
Toluene	0.10	mg/kg	< 0.10	< 0.10	< 0.10	0.28
Ethylbenzene	0.10	mg/kg	0.16	0.41	0.15	0.62
Xylenes (total)	0.20	mg/kg	0.69	11.	0.51	19.
Percent Solids	--	%	77.0	80.1	79.9	82.7

Notes:

Dilution Factor:

Dilution factor indicates the adjustments made for sample dilution.

EPA 8021A:

EPA 8021A: "Test Methods for Evaluating Solid Waste, Physical and Chemical Methods", SW-846, Third Edition, Revision 1, US EPA September 1994.

W6090072-01:

1 out of 2 surrogates was outside control limits due to matrix effects.

W6090072-02:

out of 2 surrogates was outside control limits due to matrix effects.

W6090072-03:

1 out of 2 surrogates was outside control limits due to matrix effects.

W6090072-04:

1 out of 2 surrogates was outside control limits due to matrix effects.

GTEL Client ID: FWH03FWH03
Login Number: W6090072
Project ID (number): D011 WAD3
Project ID (name): HAFB/DO WAD/HOLLOMAN/NM

QUALITY CONTROL RESULTS

Volatile Organics
Method: EPA 802
Matrix: Soli

Conformance/Non-Conformance Summary

(X = Requirements Met * = See Comments -- = Not Required NA = Not Applicable)

Conformance Item	Volatile Organics	Semi-Volatile Organics	Inorganics (MT, WC)
GC/MS Tune	--	--	NA
Initial Calibration	--	--	--
Continuing Calibration	X	--	--
Surrogate Recovery	*	--	NA
Holding Time	X	--	--
Method Accuracy	*	--	--
Method Precision	X	--	--
Blank Contamination	X	--	--

Comments:

GTEL Client ID: FWH03FWH03

QUALITY CONTROL RESULTS

Login Number: W6090072

Volatile Organics

Project ID (number): D011 WAD3

Method: EPA 8021A

Project ID (name): HAFB/DO WAD/HOLLOMAN/NM

Matrix: Solids

Surrogate Results

QC Batch No.	Reference	Sample ID	TFT	BFB
Method: EPA 8021A		Acceptability Limits:	70-130%	70-130%
091296GC5-2	BS0912965	Method Blank Soil	117.	104.
091296GC5-3	LS0912965	Laboratory control	119.	118.
091296GC5-4	CV091296205	Calibration Verifi	109.	90.8
091296GC5-6	MS09007201	Matrix Spike	116.	181.*
091296GC5-7	MD09007201	Matrix Spike Dupli	117.	152.*
--	09007201	SWMU3SP01	115.	131.*
--	09007202	SWMU3SP02	121.	137.*
--	09007203	SWMU3SP03	119.	149.*
--	09007204	SWMU3SP04	119.	139.*

Notes:

*: Indicates values outside of acceptability limits. See Nonconformance Summary.

GTEL Client ID: FWH03FWH03
Login Number: W6090072
Project ID (number): D011 WAD3
Project ID (name): HAFB/DO WAD/HOLLOMAN/NM

QUALITY CONTROL RESULTS

Volatile Organics
Method: EPA 80
Matrix: Soi

Method Blank Results

QC Batch No: 091296GC5-2
Date Analyzed: 12-SEP-96

Analyte	Method:EPA 8021A	Concentration: mg/kg
Benzene	< 0.0500	
Toluene	< 0.100	
Ethylbenzene	< 0.100	
Xylenes (Total)	< 0.200	

Notes:

GTEL Client ID: FWH03FWH03

QUALITY CONTROL RESULTS

Login Number: W6090072

Volatile Organics

Project ID (number): D011 WAD3

Method: EPA 8021A

Project ID (name): HAFB/DO WAD/HOLLOMAN/NM

Matrix: Solids

Calibration Verification Sample Summary

Analyte		Spike Amount	Check Sample Concentration	QC Percent Recovery	Acceptability Limits Recovery
EPA 8021A	Units:ug/L	QC Batch:091296GC5-4			
Benzene		20.0	17.7	88.5	85-115%
Toluene		20.0	17.5	87.5	85-115%
Ethylbenzene		20.0	17.4	87.0	85-115%
Xylenes (Total)		60.0	52.7	87.8	85-115%

Notes:

GTEL Client ID: FWH03FWH03
Login Number: W6090072
Project ID (number): D011 WAD3
Project ID (name): HAFB/DO WAD/HOLLOMAN/NM

QUALITY CONTROL RESULTS

Volatile Organics
Method: EPA 8021A
Matrix: Sol

Laboratory Control Sample Summary

Analyte		Spike Amount	Check Sample Concentration	QC Percent Recovery	Acceptability Limits Recovery
EPA 8021A	Units:ug/L	QC Batch:091296GC5-3			
Benzene		5.00	4.17	83.4	80-120%
Toluene		5.00	4.47	89.4	80-120%
Ethylbenzene		5.00	4.16	83.2	80-120%
Xylenes (Total)		15.0	12.9	86.0	80-120%

Notes:

GTEL Client ID: FWH03FWH03 QUALITY CONTROL RESULTS
Login Number: W6090072 Volatile Organics
ıject ID (number): D011 WAD3 Method: EPA 8021A
ɔject ID (name): HAFB/DO WAD/HOLLOMAN/NM Matrix: Solids

Matrix Spike(MS) and Matrix Spike Duplicate(MSD) Results

GTEL Sample ID:W6090072-01 MS ID:MS09007201 MSD ID:MD09007201
Analysis Date: 12-SEP-96 12-SEP-96 12-SEP-96

Units: mg/kg	Sample	Spikes Added		MS	MS	MSD	MSD		Acceptability Limits	
Analyte	Conc.	MS	MSD	Conc.	% Rec.	Conc.	% Rec.	RPD	RPD	%Rec.
Benzene	0.44 (0.442)	4.83	4.98	3.98	73.3*	4.01	71.6*	2.30	28.3	80-120
Toluene	< 0.10(0.000)	4.83	4.98	4.57	94.6	4.42	88.8	6.30	30	80-120
Ethylbenzene	0.16 (0.161)	4.83	4.98	5.10	102.	4.17	80.5	23.5	30	80-120
Xylenes (Total)	0.69 (0.688)	14.5	14.9	16.4	108.	15.3	98.1	9.60	30	80-120

Notes:
Values in parentheses in the sample concentration column are used for % recovery calculations.

ANALYTICAL RESULTS
Results For Multiple Methods

GTEL Client ID: FWH03FWH03
Login Number: W6090072
Project ID (number): DO11 WAD3
Project ID (name): HAFB/DO WAD/HOLLOMAN/NM

Method: See Below
Matrix: Solids

	GTEL Sample Number	W6090072-06	W6090072-07	W6090072-08	W6090072-09
	Client ID	SWMU3SP01	SWMU3SP02	SWMU3SP03	SWMU3SP04
	Date Sampled	09/04/96	09/04/96	09/04/96	09/04/96
EPA 7421	Date Prepared	09/10/96	09/10/96	09/10/96	09/10/96
EPA 7421	Date Analyzed	09/11/96	09/11/96	09/11/96	09/11/96
EPA 7421	Dilution Factor	5.00	5.00	5.00	5.00

Analyte		Reporting Limit	Units				
Lead	EPA 1311/6010A	0.10	mg/L	7.9	13.	6.8	5.7
Percent Solids	--		%	77.0	80.1	79.9	82.7

Notes:

Dilution Factor:

Dilution factor indicates the adjustments made for sample dilution.

EPA 1311/6010A:

Digestion for Total Metals by EPA Method 3010A.

EPA 7421:

Digestion by EPA Method 3050A.

EPA 1311/7470:

Digestion is method specific.

EPA 1311/6010A, EPA 1311/7470, EPA 7421:

"Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW-846, Third Edition including Update 2.

EPA 1311/6010A, EPA 1311/7470:

TCLP is performed as per 40 CFR, Part 261, Appendix II - EPA Method 1311.

Project Number: D011 WAD3
Project Name: HAFB DO WAD
Holloman, NM
Work Order Number: W6-09-0072
Date Reported: 09-13-96

QA NONCONFORMANCE SUMMARY

1.0 Sample Handling

1.1 Sample handling and holding time criteria were not met for zero samples.

2.0 Initial Calibration Verification

2.1 The validity for the calibration verification was exceeded for zero samples as shown in Table 2.

3.0 Method Blanks

3.1 Zero target elements were found in the method blank as shown in Table 3.

4.0 Matrix Spike (MS) Accuracy

4.1 The recovery limits were exceeded in the matrix spike for one element as shown in Table 4.

4.2 Recovery limits were exceeded for lead in the matrix spike sample due to heterogeneity.

4.3 The LCS and LCS duplicate samples for the elements listed above were in control as shown in Table 5.

5.0 Sample Duplicate Precision

5.1 The maximum percent difference (RPD) was exceeded for zero elements in the matrix spike and matrix spike duplicate samples as shown in Table 4.

6.0 Laboratory Control Sample

6.1 The recovery limits were not met for zero elements for the laboratory control samples as shown in Table 5.

Project Number: D011 WAD3
Project Name: HAFB DO WAD
Holloman, NM
Work Order Number: W6-09-0072
Date Reported: 09-13-96

Table 2

INITIAL CALIBRATION VERIFICATION,
QC CHECK SAMPLE REPORT

Lead in Soil

Analyte	Expected Result, ug/L	Observed Result, ug/L	Recovery, %	QC Limits, %[a]
Lead	20.0	20.7	104	90-110

a Acceptability limits as per EPA Contract Laboratory Program

Table 3

BLANK REPORT

Lead in Soil

Analyte	Initital Calibration Blank, ug/L	Preparation Blank, mg/Kg
Lead	<4.00	<0.40

<# Not detected at the indicated detection limit(#)

Project Number: D011 WAD3
Project Name: HAFB DO WAD
Holloman, NM
Work Order Number: W6-09-0072
Date Reported: 09-13-96

Table 4

MATRIX SPIKE AND MATRIX SPIKE DUPLICATE SUMMARY

Lead in Soil
EPA Method 7421

Sample Spiked: W6090121-01

Analyte	Spike Added, mg/kg	Sample Concentration, mg/kg	MS Concentration, mg/kg	MS Percent Recovery	Acceptability Limits, %[a]
Lead	1.82	5.39	28.8	1290[b]	75-125

Analyte	Spike Added, mg/kg	MSD Concentration, mg/kg	MSD Percent Recovery	RPD %	Acceptability Limits, %[a]
					RPD
Lead	1.64	33.7	1730[b]	29.2[b]	20.0

a Acceptability limits as per EPA Contract Laboratory Program.

b Indicates a result outside acceptability limits.

NA Not applicable; initital sample concentration is greater than four times the spike amount.

Project Number: D011 WAD3
Project Name: HAFB DO WAD
Holloman, NM
Work Order Number: W6-09-0072
Date Reported: 09-13-96

Table 5

LABORATORY CONTROL SAMPLE RESULTS

Lead in Soil

Analyte	Expected Result, mg/Kg	Observed Result, mg/Kg	Recovery, %	Acceptability Limits, %[a]
Lead (LCS)	2.00	1.86	98.3	80-120
Lead (LCSD)	2.00	1.93	96.5	80-120

a Acceptability limits established by laboratory practice

Project Number: D011 WAD3
Project Name: HAFB DO WAD
Holloman, NM
Work Order Number: W6-09-0072
Date Reported: 09-13-96

ANALYTICAL RESULTS

Inorganics

		GTEL Sample Number	01	02	03	04
		Client Identification	SWMU3SP O1	SWMU3SP O2	SWMU3SP O3	SWMU3SP O4
		Date Sampled	09-04-96	09-04-96	09-04-96	09-04-96
		Date Analyzed	09-10 to 09-13-96	09-10 to 09-13-96	09-10 to 09-13-96	09-10 to 09-13-96
Analyte	Method	QL* & Units	Concentration, Dry Weight			
Closed Cup Flashpoint	ASTM D93	NA °F	>200[a]	>200[a]	>200[a]	>200[a]
Paint Filter	EPA 9095	NA	No liquids redeemed	No liquids redeemed	No liquids redeemed	No liquids redeemed
pH	EPA 9045B	NA	7.6	7.6	7.7	7.6
Total Cyanide	EPA 9010A	2.0 mg/Kg	<2.0	<2.0	<2.0	<2.0
Reactivity Sulfide	SW846 7.3.4.2	25 mg/Kg	<25	<25	<25	<25
Percent Solids			77.0	80.1	79.9	82.7

* Quantitation Limit

* No official method exists for the determination of ignitability for solid samples.

Project Number: D011 WAD3
Project Name: HAFB DO WAD
Holloman, NM
Work Order Number: W6-09-0072
Date Reported: 09-13-96

QA NONCONFORMANCE SUMMARY

Inorganics

1.0 Sample Handling

1.1 Sample handling and holding time criteria were not met for 0 samples.

2.0 Initial Calibration Verification

2.1 The criteria for the calibration verification QC Check Sample was exceeded for 0 samples as shown in Table 2.

3.0 Method Blanks

3.1 Zero target analytes were found in the method blank as shown in Table 3.

4.0 Matrix Spike (MS) Accuracy

4.1 The recovery limits were exceeded in the matrix spike for 0 analyte as shown in Table 4.

5.0 Matrix Spike Duplicate Precision

5.1 The maximum percent difference (RPD) was exceeded for 0 analytes in the duplicate samples as shown in Table 5.

6.0 Laboratory Control Sample

6.1 The recovery limits were not met for 0 analytes in the Laboratory Control Sample as shown in Table 6.

Project Number: D011 WAD3
Project Name: HAFB DO WAD
Holloman, NM
Work Order Number: W6-09-0072
Date Reported: 09-13-96

Table 2

INITIAL CALIBRATION VERIFICATION QC CHECK SAMPLE REPORT

Inorganics

Analyte	Expected Result	Observed Result	Units	Recovery, %	Acceptability Limits, %[a]
Total Cyanide	0.0724	0.0790	mg/L	109	90-110

a Acceptability limits established by laboratory practice.

Table 3

BLANK REPORT

Inorganics

Analyte	Initial Calibration Blank	Units	Preparation Blank	Units
Total Cyanide	<0.02	mg/L	<2.0	mg/Kg
Reactivity Sulfide	<25	mg/L	<25	mg/Kg

Table 4

MATRIX SPIKE (MS) RECOVERY SUMMARY

Inorganics

Sample Spiked: W6090072-01

Analyte	MS Sample Result	Sample Result	Amount Added	Units	MS, % Recovery	Acceptability Limits, %[a]
Total Cyanide	16.5	<2.0	16.5	mg/Kg	100	75-125
Reactivity Sulfide	268	<25	401	mg/Kg	66.8	60-140

a Acceptability limits established by laboratory practice.

Table 5

LABORATORY DUPLICATE SAMPLE RESULTS
AND RELATIVE PERCENT DIFFERENCE (RPD) SUMMARY

Inorganics

Analyte	Matrix Spike Result	Matrix Spike Duplicate Result	Units	RPD, %	Maximum RPD, %[a]
Total Cyanide	16.5	16.6	mg/Kg	0.604	20
Reactivity Sulfide	268	231	mg/Kg	14.8	20

a Acceptability limits established by laboratory practice.

Table 6

LABORATORY CONTROL SAMPLE RESULTS

Inorganics

Analyte	Expected Result	Observed Result	Units	Recovery, %	Acceptability Limits, %[a]
Total Cyanide	18.1	18.0	mg/Kg	99.4	90-110
Reactivity Sulfide	397	377	mg/Kg	95.0	60-140

a Acceptability limits established by laboratory practice.

ANALYTICAL RESULTS
Results For Multiple Methods

GTEL Client ID: FWH03FWH03
'-gin Number: W6090072
ject ID (number): D011 WAD3
Project ID (name): HAFB/DO WAD/HOLLOMAN/NM

Method: See Below
Matrix: Solids

	GTEL Sample Number	W6090072-01	W6090072-02	W6090072-03	W6090072-04
	Client ID	SWMU3SP01	SWMU3SP02	SWMU3SP03	SWMU3SP04
	Date Sampled	09/04/96	09/04/96	09/04/96	09/04/96
EPA 1311/6010A	Date Prepared	09/10/96	09/10/96	09/10/96	09/10/96
EPA 1311/6010A	Date Analyzed	09/11/96	09/11/96	09/11/96	09/11/96
EPA 1311/6010A	Dilution Factor	4.00	4.00	4.00	4.00
EPA 1311/7470	Date Prepared	09/10/96	09/10/96	09/10/96	09/10/96
EPA 1311/7470	Date Analyzed	09/11/96	09/11/96	09/11/96	09/11/96
EPA 1311/7470	Dilution Factor	2.00	2.00	2.00	2.00

Analyte		Reporting Limit	Units				
Inorganics (MT, WC)							
Arsenic	EPA 1311/6010A	0.10	mg/L	< 0.40	< 0.40	< 0.40	< 0.40
Barium	EPA 1311/6010A	1.0	mg/L	< 4.0	< 4.0	< 4.0	< 4.0
Cadmium	EPA 1311/6010A	0.020	mg/L	< 0.080	< 0.080	< 0.080	< 0.080
Chromium	EPA 1311/6010A	0.020	mg/L	< 0.080	< 0.080	< 0.080	< 0.080
Mercury	EPA 1311/7470	0.0040	mg/L	< 0.0080	< 0.0080	< 0.0080	< 0.0080
Selenium	EPA 1311/6010A	0.040	mg/L	< 0.16	< 0.16	< 0.16	< 0.16
Silver	EPA 1311/6010A	0.020	mg/L	< 0.080	< 0.080	< 0.080	< 0.080

Notes:

Dilution Factor:

'lution factor indicates the adjustments made for sample dilution.

EPA 1311/6010A:

Digestion for Total Metals by EPA Method 3010A.

EPA 1311/7470:

Digestion is method specific.

EPA 1311/6010A, EPA 1311/7470:

"Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW-846, Third Edition including Update 2. TCLP is performed as per 40 CFR, Part 261, Appendix II - EPA Method 1311.

Project Number: D011 WAD3
Project Name: HAFB DO WAD
Holloman, NM
Work Order Number: W6-09-0072
Date Reported: 09-13-96

QA NONCONFORMANCE SUMMARY

Metals in TCLP Leachate

1.0 Sample Handling

1.1 Sample handling and holding time criteria were not met for zero samples.

2.0 Initial Calibration Verification

2.1 The validity for the calibration verification was exceeded for zero samples as shown in Table 2.

3.0 Method Blanks

3.1 Zero target elements were found in the method blank as shown in Table 3.

4.0 Matrix Spike (MS) Accuracy

4.1 The recovery limits were exceeded for zero elements in the matrix spike samples as shown in Table 4.

5.0 Matrix Spike and Matrix Spike Duplicate Precision

5.1 The maximum percent difference (RPD) was exceeded for zero elements in the matrix spike and matrix spike duplicate samples as shown in Table 4.

6.0 Laboratory Control Sample

6.1 The recovery limits were not met for zero elements for the laboratory control samples as shown in Table 5.

Project Number: D011 WAD3
Project Name: HAFB DO WAD
Holloman, NM
Work Order Number: W6-09-0072
Date Reported: 09-13-96

Table 2

INITIAL CALIBRATION VERIFICATION QC CHECK SAMPLE REPORT

Metals in TCLP Leachate

Analyte	Expected Result,mg/L	Observed Result, mg/L	Recovery, %	Acceptability Limits, %[a]
Arsenic	1.01	0.972	96.2	90-110
Barium	1.00	1.02	102	90-110
Cadmium	1.00	1.02	102	90-110
Chromium	1.00	1.00	100	90-110
Lead	1.00	1.02	102	90-110
Mercury	0.00400	0.00413	103	90-110
Selenium	1.00	1.02	102	90-110
Silver	0.500	0.522	104	90-110

a Acceptability limits established by laboratory practice.

Project Number: D011 WAD3
Project Name: HAFB DO WAD
Holloman, NM
Work Order Number: W6-09-0072
Date Reported: 09-13-96

Table 3

BLANK REPORT

Metals in TCLP Leachate

Analyte	Initial Calibration Blank, mg/L	Preparation Blank, mg/L
Arsenic	<0.40	<0.40
Barium	<4.0	<4.0
Cadmium	<0.080	<0.080
Chromium	<0.080	<0.080
Lead	<0.40	<0.40
Mercury	<0.0080	<0.0080
Selenium	<0.16	<0.16
Silver	<0.080	<0.080

<# Not detected at the indicated detection limit(#)

Project Number: D011 WAD3
Project Name: HAFB DO WAD
Holloman, NM
Work Order Number: W6-09-0072
Date Reported: 09-13-96

Table 4A

MATRIX SPIKE AND MATRIX SPIKE DUPLICATE SUMMARY

Metals in TCLP Leachate

Sample Spiked: W6090056-01

Analyte	Spike Added, mg/L	Sample Concentration, mg/L	MS Concentration, mg/L	MS Percent Recovery	Acceptability Limits, %[a]
Arsenic	8.00	<0.40	8.24	103	80-120
Barium	8.00	<4.0	9.32	116	80-120
Cadmium	4.00	<0.080	4.20	105	80-120
Chromium	8.00	<0.080	7.97	99.7	80-120
Lead	8.00	<0.40	8.47	106	80-120
Mercury	0.00800	<0.0080	0.00814	102	75-125
Selenium	8.00	<0.16	8.27	103	80-120
Silver	1.60	<0.080	1.29	80.7	80-120

a Acceptability limits as per EPA Contract Laboratory Program.

b Value outside acceptability limit.

NA Not applicable; sample result greater than four times spike amount.

Project Number: D011 WAD3
Project Name: HAFB DO WAD
Holloman, NM
Work Order Number: W6-09-0072
Date Reported: 09-13-96

Table 4B

MATRIX SPIKE AND MATRIX SPIKE DUPLICATE SUMMARY

Metals in TCLP Leachate

Analyte	Spike Added, mg/L	MSD Concentration, mg/L	MSD Percent Recovery	RPD %	Acceptability Limits, %[a]
					RPD
Arsenic	8.00	8.15	102	1.17	20.0
Barium	8.00	9.14	114	1.98	20.0
Cadmium	4.00	4.13	103	1.76	20.0
Chromium	8.00	7.95	99.4	0.310	20.0
Lead	8.00	8.25	103	2.69	20.0
Mercury	0.00800	0.00785	98.1	3.63	20.0
Selenium	8.00	8.32	104	0.667	20.0
Silver	1.60	1.30	81.0	0.294	20.0

a Acceptability limits as per EPA Contract Laboratory Program.

NA Not applicable; sample result greater than four times spike amount.

Project Number: D011 WAD3
Project Name: HAFB DO WAD
Holloman, NM
Work Order Number: W6-09-0072
Date Reported: 09-13-96

Table 5

LABORATORY CONTROL SAMPLE RESULTS

Metals in TCLP Leachate

Analyte	Expected Result, mg/L	Observed Result, mg/L	Recovery, %	Acceptability Limits, %[a]
Arsenic	8.00	8.80	110	80-120
Barium	8.00	9.31	116	80-120
Cadmium	4.00	4.53	113	80-120
Chromium	8.00	8.62	108	80-120
Lead	8.00	9.23	115	80-120
Mercury	0.00800	0.00782	97.8	75-125
Selenium	8.00	9.04	113	80-120
Silver	1.60	1.32	82.5	80-120

a Acceptability limits established by laboratory practice.

GTEL Client Number: FWH03FWH03
Project ID (Number): D011 WAD3
Project ID (Name): HAFB DO WAD
Holloman, NM
Work Order Number: W6-09-0072
Date Reported: 09-17-96

ANALYTICAL RESULTS

Semivolatile Organics in TCLP Leachate[a]
EPA Method 8270B[b]

GTEL Sample Number		01[d]	03[d]	04[d]	
Client Identification		SWMU3SP01	SWMU3SP03	SWMU3SP04	
Date Sampled		09-04-96	09-04-96	09-04-96	
Date Leached		09-09-96	09-09-96	09-09-96	
Date Extracted		09-11-96	09-11-96	09-11-96	
Extraction Fluid		#1	#1	#1	
Date Analyzed		09-14-96	09-14-96	09-14-96	
Analyte	Quantitation Limit, mg/L	Concentration, mg/L			
o-Cresol	0.033	<0.033	<0.033	<0.033	
m-Cresol + p-Cresol	0.033	<0.033	<0.033	<0.033	
1,4-Dichlorobenzene	0.033	<0.033	<0.033	<0.033	
2,4-Dinitrotoluene	0.033	<0.033	<0.033	<0.033	
Hexachloro-1,3-butadiene	0.033	<0.033	<0.033	<0.033	
Hexachlorobenzene	0.033	<0.033	<0.033	<0.033	
Hexachloroethane	0.033	<0.033	<0.033	<0.033	
Nitrobenzene	0.033	<0.033	<0.033	<0.033	
Pentachlorophenol	0.17	<0.17	<0.17	<0.17	
Pyridine	0.033	<0.033	<0.033	<0.033	
2,4,5-Trichlorophenol	0.033	<0.033	<0.033	<0.033	
2,4,6-Trichlorophenol	0.033	<0.033	<0.033	<0.033	
Quantitation Limit Multiplier[c]		1	1	1	

a Test Methods for Evaluating Solid Waste, SW-846, Third Edition, Revision 0, US EPA, November 1986; extraction by EPA Method 3510 (liquid/liquid). TCLP performed as per 40 CFR, Part 261, Appendix II - Method 1311. These data are presented in accordance with the Federal Register, 57, p.55114, November 24, 1992.

b Test Methods for Evaluating Solid Waste, SW-846, Third Edition, Revision 2, US EPA, January 1995; extraction by EPA Method 3510 (liquid/liquid).

c The quantitation limit multiplier indicates the adjustments made to the data and detection limits for sample dilutions.

d GC/MS data indicates the presence of non-target compounds.

GTEL Client Number: FWH03FWH03
Project ID (Number): D011 WAD3
Project ID (Name): HAFB DO WAD
Holloman, NM
Work Order Number: W6-09-0072
Date Reported: 09-17-96

QA NONCONFORMANCE SUMMARY

Semivolatile Organics in TCLP Leachate
EPA Method 8270B[b]

1.0 Sample Handling

1.1 Sample handling and holding time criteria were not met for **0** samples.

2.0 Surrogate Compound Recoveries

2.1 The recovery limits were exceeded for **0** surrogate compounds as shown in Table 2.

3.0 Matrix Spike (MS) Accuracy

3.1 The recovery limits were exceeded in the matrix spike for **3** compounds as shown in Table 3A and 3.5A. However, accuracy for these compounds is demonstrated in the laboratory control spike, there were no target hits in the samples for these compounds.

4.0 Sample Duplicate Precision

4.1 The maximum percent difference (RPD) was exceeded for **0** compounds in the duplicate samples as shown in Table 3B and 3.5B.

5.0 Method Blanks

5.1 **Zero** target compounds were found in the method blank as shown in Table 4.

GTEL Client Number: FWH03FWH03
Project ID (Number): D011 WAD3
Project ID (Name): HAFB DO WAD
Holloman, NM
Work Order Number: W6-09-0072
Date Reported: 09-17-96

Table 2

SURROGATE RECOVERY SUMMARY

Semivolatile Organics in TCLP Leachate
EPA Method 8270B[b]

GTEL No.	Percent Recovery, %						
	S1 (NBZ)	S2 (FBP)	S3 (TPH)	S4 (PHL)	S5 (2FP)	S6 (TBP)	TOT OUT
BT091196BNA	77.1	64.6	129.4	54.5	55.0	78.1	0
LT091196BNA	73.1	69.1	132.1	57.1	55.5	79.8	0
LTD091196BNA	76.5	73.3	132.1	58.8	59.6	83.1	0
W6090072-01	68.8	69.6	121.0	57.7	58.1	86.7	0
W6090072-03	66.0	65.2	122.7	55.8	55.6	79.2	0
MS090072-03	81.6	73.9	132.0	61.4	61.4	87.2	0
MD090072-03	73.5	73.5	131.0	55.8	56.0	91.8	0
W6090072-04	61.2	64.1	124.8	53.6	56.6	75.9	0

	Surrogates		Recovery Limits[a]
S1	NBZ	Nitrobenzene-d5	35-114
S2	FBP	2-Fluorobiphenyl	43-116
S3	TPH	Terphenyl-d14	33-141
S4	PHL	Phenol-d5	10- 94
S5	2FP	2-Fluorophenol	21-100
S6	TBP	2,4,6-Tribromophenol	10-123

D Surrogate diluted out.
* Indicates values outside of acceptability limits.
a Acceptability limits are derived from USEPA Contract Laboratory Program (CLP) guidelines.

GTEL Client Number: FWH03FWH03
Project ID (Number): D011 WAD3
Project ID (Name): HAFB DO WAD
Holloman, NM
Work Order Number: W6-09-0072
Date Reported: 09-17-96

Table 3A

MATRIX SPIKE (MS) AND MATRIX SPIKE DUPLICATE (MSD) SUMMARY
PERCENT RECOVERY AND RELATIVE PERCENT DIFFERENCE (RPD)

Semivolatile Organics in TCLP Leachate
EPA Method 8270B[b]

Sample Spiked: LT091196BNA Client ID: EF #1

Analyte	Spike Added, mg/L	Sample Concentration, mg/L	MS Concentration, mg/L	MS Percent Recovery	Acceptability Limits, %[a]
Pyridine	333	<33	389.7	116.9	10-150
1,4-Dichlorobenzene	333	<33	281.3	84.4	36-97
2-Methylphenol	333	<33	325.9	97.8	32-119
3,4-Methylphenol	667	<33	679.3	101.9	32-119
Hexachloroethane	333	<33	254.7	76.4	40-113
Nitrobenzene	333	<33	291.5	87.4	35-180
Hexachlorobutadiene	333	<33	294.3	88.3	24-116
2,4,6-Trichlorophenol	333	<33	338.3	101.5	37-144
2,4,5-Trichlorophenol	333	<33	312.9	93.9	37-144
2,4-Dinitrotoluene	333	<33	237.5	71.2	24-96
Hexachlorobenzene	333	<33	328.4	98.5	10-152
Pentachlorophenol	333	<167	229.9	69.0	10-103

Table 3B

Analyte	Spike Added, mg/L	MSD Concentration, mg/L	MSD Percent Recovery	RPD, %	Acceptability Limits[a]	
					RPD	% Recovery
Pyridine	333	410.4	123.1	5.2	50	10-150
1,4-Dichlorobenzene	333	289.6	86.9	2.9	27	36-97
2-Methylphenol	333	337.1	101.1	3.4	34	32-119
3,4-Methylphenol	667	694.0	104.1	2.1	34	32-119
Hexachloroethane	333	259.1	77.7	1.7	26	40-113
Nitrobenzene	333	295.1	88.5	1.2	39	35-180
Hexachlorobutadiene	333	315.9	94.8	7.1	38	24-116
2,4,6-Trichlorophenol	333	360.5	108.1	6.4	34	37-144
2,4,5-Trichlorophenol	333	304.5	91.3	2.7	34	37-144
2,4-Dinitrotoluene	333	238.7	71.6	0.5	47	24-96
Hexachlorobenzene	333	335.7	100.7	2.2	60	10-152
Pentachlorophenol	333	230.4	69.1	0.2	47	10-103

* Indicates values outside of acceptability limits.

a Acceptability limits are derived from USEPA requirements and laboratory practices.

RPD: **0** out of **12** outside limits.

Spike Recovery: **0** out of **24** outside limits.

GTEL Client Number: FWH03FWH03
Project ID (Number): D011 WAD3
Project ID (Name): HAFB DO WAD
Holloman, NM
Work Order Number: W6-09-0072
Date Reported: 09-17-96

Table 3.5A

MATRIX SPIKE (MS) AND MATRIX SPIKE DUPLICATE (MSD) SUMMARY
PERCENT RECOVERY AND RELATIVE PERCENT DIFFERENCE (RPD)

Semivolatile Organics in TCLP Leachate
EPA Method 8270B[b]

Sample Spiked: W6090072-03 Client ID: SWMU3SP03

Analyte	Spike Added, mg/L	Sample Concentration, mg/L	MS Concentration, mg/L	MS Percent Recovery	Acceptability Limits, %[a]
Pyridine	333	<33	350.1	105.0	10-150
1,4-Dichlorobenzene	333	<33	324.7	97.4 *	36-97
2-Methylphenol	333	<33	339.0	101.7	32-119
3,4-Methylphenol	667	<33	696.7	104.5	32-119
Hexachloroethane	333	<33	304.1	91.2	40-113
Nitrobenzene	333	<33	317.3	95.2	35-180
Hexachlorobutadiene	333	<33	350.5	105.2	24-116
2,4,6-Trichlorophenol	333	<33	364.4	109.3	37-144
2,4,5-Trichlorophenol	333	<33	297.6	89.3	37-144
2,4-Dinitrotoluene	333	<33	248.9	74.7	24-96
Hexachlorobenzene	333	<33	325.7	97.7	10-152
Pentachlorophenol	333	<167	345.9	103.8 *	10-103

Table 3.5B

Analyte	Spike Added, mg/L	MSD Concentration, mg/L	MSD Percent Recovery	RPD, %	Acceptability Limits[a]	
					RPD	% Recovery
Pyridine	333	411.9	123.6	16.2	50	10-150
1,4-Dichlorobenzene	333	281.1	84.3	14.4	27	36-97
2-Methylphenol	333	318.1	95.4	6.4	34	32-119
3,4-Methylphenol	667	687.3	103.1	1.3	34	32-119
Hexachloroethane	333	254.9	76.5	17.6	26	40-113
Nitrobenzene	333	291.9	87.6	8.4	39	35-180
Hexachlorobutadiene	333	298.2	89.5	16.1	38	24-116
2,4,6-Trichlorophenol	333	367.8	110.3	0.9	34	37-144
2,4,5-Trichlorophenol	333	300.4	90.1	0.9	34	37-144
2,4-Dinitrotoluene	333	269.1	80.7	7.8	47	24-96
Hexachlorobenzene	333	322.8	96.8	0.9	60	10-152
Pentachlorophenol	333	365.8	109.7 *	5.5	47	10-103

* Indicates values outside of acceptability limits.

a Acceptability limits are derived from USEPA requirements and laboratory practices.

RPD: **0** out of **12** outside limits.
Spike Recovery: **3** out of **24** outside limits.

GTEL Client Number: FWH03FWH03
Project ID (Number): D011 WAD3
Project ID (Name): HAFB DO WAD
Holloman, NM
Work Order Number: W6-09-0072
Date Reported: 09-17-96

Table 4

METHOD BLANK

Semivolatile Organics in TCLP Leachate[a]
EPA Method 8270B[b]

	GTEL File Number	BT091196BNA			
	Date Leached	09-09-96			
	Date Extracted	09-11-96			
	Extraction Fluid	#1			
	Date Analyzed	09-13-96			
Analyte	Quantitation Limit, mg/L	Concentration, mg/L			
o-Cresol	0.033	<0.033			
m-Cresol + p-Cresol	0.033	<0.033			
1,4-Dichlorobenzene	0.033	<0.033			
2,4-Dinitrotoluene	0.033	<0.033			
Hexachloro-1,3-butadiene	0.033	<0.033			
Hexachlorobenzene	0.033	<0.033			
Hexachloroethane	0.033	<0.033			
Nitrobenzene	0.033	<0.033			
Pentachlorophenol	0.17	<0.17			
Pyridine	0.033	<0.033			
2,4,5-Trichlorophenol	0.033	<0.033			
2,4,6-Trichlorophenol	0.033	<0.033			
Quantitation Limit Multiplier[c]		1			

a Test Methods for Evaluating Solid Waste, SW-846, Third Edition, Revision 0, US EPA, November 1986; extraction by EPA Method 3510 (liquid/liquid). TCLP performed as per 40 CFR, Part 261, Appendix II - Method 1311. These data are presented in accordance with the Federal Register, 57, p. 55114, November 24, 1992.

b Test Methods for Evaluating Solid Waste, SW-846, Third Edition, Revision 2, US EPA, January 1995; extraction by EPA Method 3510 (liquid/liquid).

c The quantitation limit multiplier indicates the adjustments made to the data and detection limits for sample dilutions.

GTEL Client Number: FWH03FWH03
Project ID (Number): D011 WAD3
Project ID (Name): HAFB DO WAD
Holloman, NM
Work Order Number: W6-09-0072
Date Reported: 09-17-96

ANALYTICAL RESULTS

Semivolatile Organics in TCLP Leachate[a]
EPA Method 8270B[b]

GTEL Sample Number		02[d]			
Client Identification		SWMU3SP02			
Date Sampled		09-04-96			
Date Leached		09-09-96			
Date Extracted		09-11-96			
Extraction Fluid		#1			
Date Analyzed		09-13-96			
Analyte	Quantitation Limit, mg/L	Concentration, mg/L			
o-Cresol	0.033	<0.033			
m-Cresol + p-Cresol	0.033	<0.033			
1,4-Dichlorobenzene	0.033	<0.033			
2,4-Dinitrotoluene	0.033	<0.033			
Hexachloro-1,3-butadiene	0.033	<0.033			
Hexachlorobenzene	0.033	<0.033			
Hexachloroethane	0.033	<0.033			
Nitrobenzene	0.033	<0.033			
Pentachlorophenol	0.17	<0.17			
Pyridine	0.033	<0.033			
2,4,5-Trichlorophenol	0.033	<0.033			
2,4,6-Trichlorophenol	0.033	<0.033			
Quantitation Limit Multiplier[c]		1			

a Test Methods for Evaluating Solid Waste, SW-846, Third Edition, Revision 0, US EPA, November 1986; extraction by EPA Method 3510 (liquid/liquid). TCLP performed as per 40 CFR, Part 261, Appendix II - Method 1311. These data are presented in accordance with the Federal Register, 57, p.55114, November 24, 1992.

b Test Methods for Evaluating Solid Waste, SW-846, Third Edition, Revision 2, US EPA, January 1995; extraction by EPA Method 3510 (liquid/liquid).

c The quantitation limit multiplier indicates the adjustments made to the data and detection limits for sample dilutions.

d GC/MS data indicates the presence of non-target compounds.

GTEL Client Number: FWH03FWH03
Project ID (Number): D011 WAD3
Project ID (Name): HAFB DO WAD
Holloman, NM
Work Order Number: W6-09-0072
Date Reported: 09-17-96

QA NONCONFORMANCE SUMMARY

Semivolatile Organics in TCLP Leachate
EPA Method 8270B[b]

1.0 Sample Handling

1.1 Sample handling and holding time criteria were not met for **0** samples.

2.0 Surrogate Compound Recoveries

2.1 The recovery limits were exceeded for **0** surrogate compounds as shown in Table 2.

3.0 Matrix Spike (MS) Accuracy

3.1 The recovery limits were exceeded in the matrix spike for **4** compounds as shown in Table 3A and 3.5A. However, accuracy for these compounds is demonstrated in the laboratory control spike, there were no target hits in the samples for these compounds.

4.0 Sample Duplicate Precision

4.1 The maximum percent difference (RPD) was exceeded for **0** compounds in the duplicate samples as shown in Table 3B and 3.5B.

5.0 Method Blanks

5.1 **Zero** target compounds were found in the method blank as shown in Table 4.

GTEL Client Number: FWH03FWH03
Project ID (Number): D011 WAD3
Project ID (Name): HAFB DO WAD
Holloman, NM
Work Order Number: W6-09-0072
Date Reported: 09-17-96

Table 2

SURROGATE RECOVERY SUMMARY

Semivolatile Organics in TCLP Leachate
EPA Method 8270B[b]

GTEL No.	Percent Recovery, %						
	S1 (NBZ)	S2 (FBP)	S3 (TPH)	S4 (PHL)	S5 (2FP)	S6 (TBP)	TOT OUT
BT091196BNA2	69.0	68.6	127.2	53.3	55.8	73.9	0
LT091196BNA2	74.1	70.2	134	54.4	54.7	83.7	0
LTD091196BNA2	75.2	72.3	135.4	54.8	58.2	78.3	0
W6090072-02	67.7	66.8	136.1	54.7	56.5	78.1	0
MS090072-02	80.1	74.1	131.1	60.9	61.9	94.1	0
MD090072-02	71.2	69.5	130.7	57.8	58.5	94.8	0

	Surrogates		Recovery Limits[a]
S1	NBZ	Nitrobenzene-d5	35-114
S2	FBP	2-Fluorobiphenyl	43-116
S3	TPH	Terphenyl-d14	33-141
S4	PHL	Phenol-d5	10- 94
S5	2FP	2-Fluorophenol	21-100
S6	TBP	2,4,6-Tribromophenol	10-123

D Surrogate diluted out.
* Indicates values outside of acceptability limits.
a Acceptability limits are derived from USEPA Contract Laboratory Program (CLP) guidelines.

GTEL Client Number: FWH03FWH03
Project ID (Number): D011 WAD3
Project ID (Name): HAFB DO WAD
Holloman, NM
Work Order Number: W6-09-0072
Date Reported: 09-17-96

Table 3A

MATRIX SPIKE (MS) AND MATRIX SPIKE DUPLICATE (MSD) SUMMARY
PERCENT RECOVERY AND RELATIVE PERCENT DIFFERENCE (RPD)

Semivolatile Organics in TCLP Leachate
EPA Method 8270B[b]

Sample Spiked: LT091196BNA2 Client ID: EF #2

Analyte	Spike Added, mg/L	Sample Concentration, mg/L	MS Concentration, mg/L	MS Percent Recovery	Acceptability Limits, %[a]
Pyridine	333	<33	364.7	109.4	10-150
1,4-Dichlorobenzene	333	<33	256.7	77.0	36-97
2-Methylphenol	333	<33	298.3	89.5	32-119
3,4-Methylphenol	667	<33	623.3	93.5	32-119
Hexachloroethane	333	<33	219.3	65.8	40-113
Nitrobenzene	333	<33	271.1	81.3	35-180
Hexachlorobutadiene	333	<33	279.4	83.8	24-116
2,4,6-Trichlorophenol	333	<33	246.3	73.9	37-144
2,4,5-Trichlorophenol	333	<33	331.3	99.4	37-144
2,4-Dinitrotoluene	333	<33	221.3	66.4	24-96
Hexachlorobenzene	333	<33	328.4	98.5	10-152
Pentachlorophenol	333	<167	229.9	69.0	10-103

Table 3B

Analyte	Spike Added, mg/L	MSD Concentration, mg/L	MSD Percent Recovery	RPD, %	Acceptability Limits[a]	
					RPD	% Recovery
Pyridine	333	404.7	121.4	10.4	50	10-150
1,4-Dichlorobenzene	333	286.9	86.1	11.1	27	36-97
2-Methylphenol	333	317.1	95.1	6.1	34	32-119
3,4-Methylphenol	667	664.7	99.7	6.4	34	32-119
Hexachloroethane	333	257.5	77.2	16.0	26	40-113
Nitrobenzene	333	286.3	85.9	0.2	39	35-180
Hexachlorobutadiene	333	301.9	90.6	10.7	38	24-116
2,4,6-Trichlorophenol	333	327.6	98.3	0.6	34	37-144
2,4,5-Trichlorophenol	333	288.5	86.5	3.2	34	37-144
2,4-Dinitrotoluene	333	325.1	97.5 *	27.6	47	24-96
Hexachlorobenzene	333	336.4	100.9	1.5	60	10-152
Pentachlorophenol	333	203.6	61.1	8.3	47	10-103

* Indicates values outside of acceptability limits.

a Acceptability limits are derived from USEPA requirements and laboratory practices.

RPD: **0** out of **12** outside limits.
Spike Recovery: **1** out of **24** outside limits.

GTEL Client Number: FWH03FWH03
Project ID (Number): D011 WAD3
Project ID (Name): HAFB DO WAD
Holloman, NM
Work Order Number: W6-09-0072
Date Reported: 09-17-96

Table 3.5A

MATRIX SPIKE (MS) AND MATRIX SPIKE DUPLICATE (MSD) SUMMARY
PERCENT RECOVERY AND RELATIVE PERCENT DIFFERENCE (RPD)

Semivolatile Organics in TCLP Leachate
EPA Method 8270B[b]

Sample Spiked: W6090072-03 Client ID: SWMU3SP03

Analyte	Spike Added, mg/L	Sample Concentration, mg/L	MS Concentration, mg/L	MS Percent Recovery	Acceptability Limits, %[a]
Pyridine	333	<33	425.7	127.7	10-150
1,4-Dichlorobenzene	333	<33	339.1	101.7 *	36-97
2-Methylphenol	333	<33	335.3	100.6	32-119
3,4-Methylphenol	667	<33	662.7	102.4	32-119
Hexachloroethane	333	<33	287.9	86.4	40-113
Nitrobenzene	333	<33	302.5	90.7	35-180
Hexachlorobutadiene	333	<33	334.9	100.5	24-116
2,4,6-Trichlorophenol	333	<33	378.5	113.6	37-144
2,4,5-Trichlorophenol	333	<33	391.9	111.6	37-144
2,4-Dinitrotoluene	333	<33	295.3	88.6	24-96
Hexachlorobenzene	333	<33	339.1	101.7	10-152
Pentachlorophenol	333	<167	405.7	121.7 *	10-103

Table 3.5B

Analyte	Spike Added, mg/L	MSD Concentration, mg/L	MSD Percent Recovery	RPD, %	Acceptability Limits[a]	
					RPD	% Recovery
Pyridine	333	387.3	123.6	9.4	50	10-150
1,4-Dichlorobenzene	333	312.5	84.3	8.1	27	36-97
2-Methylphenol	333	320.7	95.4	4.5	34	32-119
3,4-Methylphenol	667	661.0	103.1	3.2	34	32-119
Hexachloroethane	333	271.8	76.5	5.7	26	40-113
Nitrobenzene	333	270.8	87.6	11.0	39	35-180
Hexachlorobutadiene	333	303.1	89.5	10.0	38	24-116
2,4,6-Trichlorophenol	333	352.5	110.3	7.1	34	37-144
2,4,5-Trichlorophenol	333	336.5	90.1	10.0	34	37-144
2,4-Dinitrotoluene	333	267.0	80.7	10.1	47	24-96
Hexachlorobenzene	333	318.6	96.8	6.2	60	10-152
Pentachlorophenol	333	351.9	105.6 *	14.2	47	10-103

* Indicates values outside of acceptability limits.

a Acceptability limits are derived from USEPA requirements and laboratory practices.

RPD: **0** out of **12** outside limits.
Spike Recovery: **3** out of **24** outside limits.

GTEL Client Number: FWH03FWH03
Project ID (Number): D011 WAD3
Project ID (Name): HAFB DO WAD
Holloman, NM
Work Order Number: W6-09-0072
Date Reported: 09-17-96

Table 4

METHOD BLANK

Semivolatile Organics in TCLP Leachate[a]
EPA Method 8270B[b]

	GTEL File Number	BT091196BNA02			
	Date Leached	09-09-96			
	Date Extracted	09-11-96			
	Extraction Fluid	#1			
	Date Analyzed	09-13-96			
Analyte	Quantitation Limit, mg/L	Concentration, mg/L			
o-Cresol	0.033	<0.033			
m-Cresol + p-Cresol	0.033	<0.033			
1,4-Dichlorobenzene	0.033	<0.033			
2,4-Dinitrotoluene	0.033	<0.033			
Hexachloro-1,3-butadiene	0.033	<0.033			
Hexachlorobenzene	0.033	<0.033			
Hexachloroethane	0.033	<0.033			
Nitrobenzene	0.033	<0.033			
Pentachlorophenol	0.17	<0.17			
Pyridine	0.033	<0.033			
2,4,5-Trichlorophenol	0.033	<0.033			
2,4,6-Trichlorophenol	0.033	<0.033			
Quantitation Limit Multiplier[c]		1			

a Test Methods for Evaluating Solid Waste, SW-846, Third Edition, Revision 0, US EPA, November 1986; extraction by EPA Method 3510 (liquid/liquid). TCLP performed as per 40 CFR, Part 261, Appendix II - Method 1311. These data are presented in accordance with the Federal Register, 57, p. 55114, November 24, 1992.

b Test Methods for Evaluating Solid Waste, SW-846, Third Edition, Revision 2, US EPA, January 1995; extraction by EPA Method 3510 (liquid/liquid).

c The quantitation limit multiplier indicates the adjustments made to the data and detection limits for sample dilutions.

ANALYTICAL RESULTS
Total Petroleum Hydrocarbons

GTEL Client ID: FWH03FWH03
Login Number: W6090072
Project ID (number): D011 WAD3
Project ID (name): HAFB/DO WAD/HOLLOMAN/NM

Method: EPA 418.1
Matrix: Solids

GTEL Sample Number		W6090072-01	W6090072-02	W6090072-03	W6090072-04
Client ID		SWMU3SP01	SWMU3SP02	SWMU3SP03	SWMU3SP04
Date Sampled		09/04/96	09/04/96	09/04/96	09/04/96
Date Prepared		09/12/96	09/12/96	09/12/96	09/12/96
Date Analyzed		09/13/96	09/13/96	09/13/96	09/13/96
Dilution Factor		10.0	10.0	1.00	10.0
Analyte	Reporting Limit / Units	Concentration:Dry Weight			
Total Petroleum Hydrocarbons	20. mg/kg	5800	4400	4400	9300
Percent Solids	-- %	77.0	80.1	79.9	82.7

Notes:

Dilution Factor:

Dilution factor indicates the adjustments made for sample dilution.

EPA 418.1:

Extraction is modified for soils by using EPA Method 9071 (soxhlet extraction). "Methods for Chemical Analysis of Water and Wastes", EPA 600/4-79-020, USEPA EMSL, Cincinnati, OH, Revised, March 1983.

GTEL Client ID: FWH03FWH03
Login Number: W6090072
Project ID (number): D011 WAD3
Project ID (name): HAFB/DO WAD/HOLLOMAN/NM

QUALITY CONTROL RESULTS

Total Petroleum Hydrocarbons
Method: EPA 418.1
Matrix: Solids

Conformance/Non-Conformance Summary

(X = Requirements Met * = See Comments -- = Not Required NA = Not Applicable)

Conformance Item	Volatile Organics	Semi-Volatile Organics	Inorganics (MT, WC)
GC/MS Tune	--	--	NA
Initial Calibration	--	--	--
Continuing Calibration	--	X	--
Surrogate Recovery	--	--	NA
Holding Time	--	X	--
Method Accuracy	--	*	--
Method Precision	--	*	--
Blank Contamination	--	*	--

Comments:
The accuracy limits are for a fuel oil #2 spike when the calibration is based on the standard reference oil.
The accuracy limits are for a fuel oil #2 spike when the calibration is based on the standard reference oil.
The accuracy limits are for a fuel oil #2 spike when the calibration is based on the standard reference oil.

Method Accuracy

Sample spike recovery is outside of control limits due to high sample concentration. Blank spike recovery is within the limits, therefore demonstrating method accuracy.

Method Precision

Sample spike RPD is outside of control limits due to high sample concentration.

Blank Contamination

The reported blank concentration is less than the reporting limit.

GTEL Client ID: FWH03FWH03
Login Number: W6090072
Project ID (number): D011 WAD3
Project ID (name): HAFB/DO WAD/HOLLOMAN/NM

QUALITY CONTROL RESULTS

Total Petroleum Hydrocarbons
Method: EPA 41
Matrix: Sol

Calibration Verification Sample Summary

Analyte	Spike Amount	Check Sample Concentration	QC Percent Recovery	Acceptability Limits Recovery
EPA 418.1 Units:mg/L	QC Batch:091296IRSX-6			
Total Petroleum Hydrocarbons	5.00	4.95	99.0	90-110%

Notes:

GTEL Client ID: FWH03FWH03

QUALITY CONTROL RESULTS

Login Number: W6090072

Total Petroleum Hydrocarbons

oject ID (number): D011 WAD3

Method: EPA 418.1

oject ID (name): HAFB/DO WAD/HOLLOMAN/NM

Matrix: Solids

Method Blank Results

QC Batch No: 091296IRSX-1

Date Analyzed: 13-SEP-96

Analyte	Method:EPA 418.1	Concentration: mg/kg
Total Petroleum Hydrocarbons	11.5*	

Notes:

091296IRSX-1: The reported concentration is less than the reporting limit.

GTEL Client ID: FWH03FWH03
Login Number: W6090072
Project ID (number): D011 WAD3
Project ID (name): HAFB/DO WAD/HOLLOMAN/NM

QUALITY CONTROL RESULTS

Total Petroleum Hydrocarb
Method: EPA 4.
Matrix: Solids

Matrix Spike(MS) and Matrix Spike Duplicate(MSD) Results

GTEL Sample ID:W6090072-01 MS ID:MS09007201 MSD ID:MD09007201
Analysis Date: 13-SEP-96 13-SEP-96 13-SEP-96

Units: mg/kg	Sample	Spikes Added		MS	MS	MSD	MSD		Acceptability Limits	
Analyte	Conc.	MS	MSD	Conc.	% Rec.	Conc.	% Rec.	RPD	RPD	%Rec.
Total Petroleum Hydrocarbons	4500 (4490)	150.	150.	5150	440.*	3680	-540.*	1960*	50	42-141

Notes:

Values in parentheses in the sample concentration column are used for % recovery calculations.

The spike recovery data may not be representative of the accuracy of the method or demonstrate true matrix interferences due to the ratio of background to spike amount.

The accuracy limits are for a fuel oil #2 spike when the calibration is based on the standard reference oil.

091296IRSX-4: Sample spike recovery is outside of acceptability limits due to high sample concentration. Blank spike recovery is within acceptability limits, therefore demonstrating method accuracy.

091296IRSX-4: :Sample duplicate RPD is outside of acceptability limits due to high sample concentration.

091296IRSX-5: Sample spike recovery is outside of acceptability limits due to high sample concentration. Blank spike recovery is within acceptability limits, therefore demonstrating method accuracy.

091296IRSX-5: :Sample duplicate RPD is outside of acceptability limits due to high sample concentration.

GTEL Client ID: FWH03FWH03
Login Number: W6090072
Project ID (number): D011 WAD3
Project ID (name): HAFB/DO WAD/HOLLOMAN/NM

QUALITY CONTROL RESULTS

Total Petroleum Hydrocarbons
Method: EPA 418.1
Matrix: Solids

Laboratory Control Sample (LCS) and Laboratory Control Duplicate Results

Analyte	Spike Amount	LCS Concentration	LCS Recovery, %	LCS Duplicate Concentration	LCS Duplicate Recovery, %	RPD, %	Acceptability Limits RPD, %	Acceptability Limits Recovery, %
EPA 418.1 Units: mg/kg QC Batch:091296IRSX-3								
Total Petroleum Hydrocarbons	150.	181.	121.	179.	119.	1.67	50	40-140%

Notes:
The accuracy limits are for a fuel oil #2 spike when the calibration is based on the standard reference oil.

NEI/GTEL
ENVIRONMENTAL LABORATORIES, INC.

Midwest Region
4211 May Avenue
Wichita, KS 67209
(316) 945-2624
(800) 633-7936
(316) 945-0506 (FAX)

October 8, 1996

Dan Holmquist
Foster Wheeler Environmental Corporation
241 Arkansas St. /Behind Rv Storage
Holloman A F B, NM 88330

RE: GTEL Client ID:	FWH03FWH03
Login Number:	W6090371
Project ID (number):	
Project ID (name):	HAFB/DO WAD/HOLLOMAN/NM

Dear Dan Holmquist:

This report, previously dated 10/01/96, is a reissue.

Enclosed please find the analytical results for the samples received by GTEL Environmental Laboratories, Inc. on 09/21/96 under Chain-of-Custody Number(s) 47740.

A formal Quality Assurance/Quality Control (QA/QC) program is maintained by GTEL, which is designed to meet or exceed the EPA requirements. Analytical work for this project met QA/QC criteria unless otherwise stated in the footnotes. This report is to be reproduced only in full.

NEI/GTEL is certified by the U.S. Army Corp of Engineers Laboratory Validation, expiration date March 18, 1997.

If you have any questions regarding this analysis, or if we can be of further assistance, please call our Customer Service Representative.

Sincerely,
GTEL Environmental Laboratories, Inc.

Customer Service Manager

Terry R. Loucks
Laboratory Director

RECEIVED OCT 11 1996

Project ID (Number): FWH03FWH03
Project ID (Name): HAFB
DO WAD
Holloman, NM
Work Order Number: W6-09-0371
Date Reported: 10-01-96

ANALYTICAL RESULTS

Semivolatile Organics in TCLP Leachate[a]
EPA Method 8270B[b]

GTEL Sample Number		01	02	03	04
Client Identification		SWMU3SPO5	SWMU3SPO6	SWMU3SPO7	SWMU3SPO8
Date Sampled		09-20-96	09-20-96	09-20-96	09-20-96
Date Leached		09-24-96	09-24-96	09-24-96	09-24-96
Date Extracted		09-26-96	09-26-96	09-26-96	09-26-96
Extraction Fluid		#1	#1	#1	#1
Date Analyzed		09-30-96	10-01-96	10-01-96	09-30-96
Analyte	Reporting Limit, mg/L	Concentration, mg/L			
o-Cresol	0.033	<0.033	<0.033	<0.033	<0.033
m-Cresol + p-Cresol	0.033	<0.033	<0.033	<0.033	<0.033
1,4-Dichlorobenzene	0.033	<0.033	<0.033	<0.033	<0.033
2,4-Dinitrotoluene	0.033	<0.033	<0.033	<0.033	<0.033
Hexachloro-1,3-butadiene	0.033	<0.033	<0.033	<0.033	<0.033
Hexachlorobenzene	0.033	<0.033	<0.033	<0.033	<0.033
Hexachloroethane	0.033	<0.033	<0.033	<0.033	<0.033
Nitrobenzene	0.033	<0.033	<0.033	<0.033	<0.033
Pentachlorophenol	0.17	<0.17	<0.17	<0.17	<0.17
Pyridine	0.033	<0.033	<0.033	<0.033	<0.033
2,4,5-Trichlorophenol	0.033	<0.033	<0.033	<0.033	<0.033
2,4,6-Trichlorophenol	0.033	<0.033	<0.033	<0.033	<0.033
Quantitation Limit Multiplier[c]		1	1	1	1

a Test Methods for Evaluating Solid Waste, SW-846, Third Edition, Revision 0, US EPA, November 1986; extraction by EPA Method 3510 (liquid/liquid). TCLP performed as per 40 CFR, Part 261, Appendix II - Method 1311. These data are presented in accordance with the Federal Register, 57, p.55114, November 24, 1992.

b Test Methods for Evaluating Solid Waste, SW-846, Third Edition, Revision 2, US EPA, Jan 1995; extraction by EPA Method 3510 (liquid/liquid).

c The quantitation limit multiplier indicates the adjustments made to the reporting limits for sample dilutions.

Project ID (Number): FWH03FWH03
Project ID (Name): HAFB
DO WAD
Holloman, NM
Work Order Number: W6-09-0371
Date Reported: 10-01-96

ANALYTICAL RESULTS

Semivolatile Organics in TCLP Leachate[a]
EPA Method 8270B[b]

GTEL Sample Number		05	06	07	
Client Identification		SWMU3SPO9	SWMU3SP10	SWMU3SP11	
Date Sampled		09-20-96	09-20-96	09-20-96	
Date Leached		09-24-96	09-24-96	09-24-96	
Date Extracted		09-26-96	09-26-96	09-26-96	
Extraction Fluid		#1	#1	#1	
Date Analyzed		10-01-96	10-01-96	10-01-96	
Analyte	Reporting Limit, mg/L	Concentration, mg/L			
o-Cresol	0.033	<0.033	<0.033	<0.033	
m-Cresol + p-Cresol	0.033	<0.033	<0.033	<0.033	
1,4-Dichlorobenzene	0.033	<0.033	<0.033	<0.033	
2,4-Dinitrotoluene	0.033	<0.033	<0.033	<0.033	
Hexachloro-1,3-butadiene	0.033	<0.033	<0.033	<0.033	
Hexachlorobenzene	0.033	<0.033	<0.033	<0.033	
Hexachloroethane	0.033	<0.033	<0.033	<0.033	
Nitrobenzene	0.033	<0.033	<0.033	<0.033	
Pentachlorophenol	0.17	<0.17	<0.17	<0.17	
Pyridine	0.033	<0.033	<0.033	<0.033	
2,4,5-Trichlorophenol	0.033	<0.033	<0.033	<0.033	
2,4,6-Trichlorophenol	0.033	<0.033	<0.033	<0.033	
Quantitation Limit Multiplier[c]		1	1	1	

a Test Methods for Evaluating Solid Waste, SW-846, Third Edition, Revision 0, US EPA, November 1986; extraction by EPA Method 3510 (liquid/liquid). TCLP performed as per 40 CFR, Part 261, Appendix II - Method 1311. These data are presented in accordance with the Federal Register, 57, p.55114, November 24, 1992.

b Test Methods for Evaluating Solid Waste, SW-846, Third Edition, Revision 2, US EPA, Jan 1995; extraction by EPA Method 3510 (liquid/liquid).

c The quantitation limit multiplier indicates the adjustments made to the reporting limits for sample dilutions.

Project ID (Number): FWH03FWH03
Project ID (Name): HAFB
DO WAD
Holloman, NM
Work Order Number: W6-09-0371
Date Reported: 10-01-96

QA NONCONFORMANCE SUMMARY

Semivolatile Organics in TCLP Leachate
EPA Method 8270B[b]

1.0 Sample Handling

1.1 Sample handling and holding time criteria were not met for 0 samples.

2.0 Surrogate Compound Recoveries

2.1 The recovery limits were exceeded for 0 surrogate compounds as shown in Table 2.

3.0 Laboratory control spike (LCS) and Matrix Spike (MS) Accuracy

3.1 The recovery limits were exceeded in the matrix spike for 2 compounds as shown in Table 3A and 3.5A; however, accuracy for these compounds is demonstrated in the laboratory control spike and matrix spike duplicate respectively.

4.0 Sample Duplicate Precision

4.1 The maximum percent difference (RPD) was exceeded for 0 compounds in the duplicate samples as shown in Table 3B and 3.5B.

5.0 Method Blanks

5.1 Zero target compounds were found in the method blank as shown in Table 4.

Project ID (Number): FWH03FWH03
Project ID (Name): HAFB
DO WAD
Holloman, NM
Work Order Number: W6-09-0371
Date Reported: 10-01-96

Table 2

SURROGATE RECOVERY SUMMARY

Semivolatile Organics in TCLP Leachate
EPA Method 8270B[b]

GTEL No.	Percent Recovery, %						
	S1 (NBZ)	S2 (FBP)	S3 (TPH)	S4 (PHL)	S5 (2FP)	S6 (TBP)	TOT OUT
BT092696BNA	57.4	73.7	120	38.3	63.8	54.3	0
LT092696BNA	69.4	67.1	59.6	39.7	60.4	64.4	0
LTD092696BNA	83.0	77.2	121.4	49.0	68.0	68.0	0
W609037101	61.7	71.4	119.5	45.1	68.2	68.6	0
W609037102	56.7	64.5	111.6	42.0	58.0	62.2	0
W609037103	58.8	67.3	110.4	36.5	60.2	60.8	0
W609037104	56.2	60.8	108.7	32.4	53.2	65.8	0
MS09037104	76.5	68.5	112.9	45.5	68.4	73.4	0
MD09037104	60.3	63.3	105.7	38.4	55.4	64.3	0

	Surrogates		Recovery Limits[a]
S1	NBZ	Nitrobenzene-d5	35-114
S2	FBP	2-Fluorobiphenyl	43-116
S3	TPH	Terphenyl-d14	33-141
S4	PHL	Phenol-d5	10- 94
S5	2FP	2-Fluorophenol	21-100
S6	TBP	2,4,6-Tribromophenol	10-123

D Surrogate diluted out.
* Indicates values outside of acceptability limits.
a Acceptability limits are derived from USEPA Contract Laboratory Program (CLP) guidelines.

Project ID (Number): FWH03FWH03
Project ID (Name): HAFB
DO WAD
Holloman, NM
Work Order Number: W6-09-0371
Date Reported: 10-01-96

Table 2

SURROGATE RECOVERY SUMMARY

Semivolatile Organics in TCLP Leachate
EPA Method 8270B[b]

GTEL No.	Percent Recovery, %						
	S1 (NBZ)	S2 (FBP)	S3 (TPH)	S4 (PHL)	S5 (2FP)	S6 (TBP)	TOT OUT
W609037105	63.6	75.2	111.6	35.5	64.2	63.4	0
W609037106	55.4	68.3	115.3	33.0	60.0	61.8	0
W609037107	54.2	60.8	108.4	34.8	59.0	61.6	0

	Surrogates		Recovery Limits[a]
S1	NBZ	Nitrobenzene-d5	35-114
S2	FBP	2-Fluorobiphenyl	43-116
S3	TPH	Terphenyl-d14	33-141
S4	PHL	Phenol-d5	10- 94
S5	2FP	2-Fluorophenol	21-100
S6	TBP	2,4,6-Tribromophenol	10-123

D Surrogate diluted out.
* Indicates values outside of acceptability limits.
a Acceptability limits are derived from USEPA Contract Laboratory Program (CLP) guidelines.

Project ID (Number): FWH03FWH03
Project ID (Name): HAFB
DO WAD
Holloman, NM
Work Order Number: W6-09-0371
Date Reported: 10-01-96

Table 3

MATRIX SPIKE (MS) AND MATRIX SPIKE DUPLICATE (MSD) SUMMARY
PERCENT RECOVERY AND RELATIVE PERCENT DIFFERENCE (RPD)

Semivolatile Organics in TCLP Leachate
EPA Method 8270B[b]

Sample Spiked: LT092696BNA Client ID: EF#1

Analyte	Spike Added, mg/L	Sample Concentration, mg/L	MS Concentration, mg/L	MS Percent Recovery	Acceptability Limits, %[a]
Pyridine	333	<33	340.2	102.1	10-150
1,4-Dichlorobenzene	333	<33	306.5	91.9	36-97
2-Methylphenol	333	<33	310.8	93.2	32-119
3,4-Methylphenol	667	<33	461.7	69.3	32-119
Hexachloroethane	333	<33	296.3	88.9	40-113
Nitrobenzene	333	<33	299.2	89.8	35-180
Hexachlorobutadiene	333	<33	295.3	88.6	24-116
2,4,6-Trichlorophenol	333	<33	243.6	73.1	37-144
2,4,5-Trichlorophenol	333	<33	263.4	79.0	37-144
2,4-Dinitrotoluene	333	<33	247.8	74.3	24-96
Hexachlorobenzene	333	<33	351.7	105.5	10-152
Pentachlorophenol	333	<167	257.9	77.4	10-103

Analyte	Spike Added, mg/L	MSD Concentration, mg/L	MSD Percent Recovery	RPD, %	Acceptability Limits[a]	
					RPD	% Recovery
Pyridine	333	447.7	134.3	27.3	50	10-150
1,4-Dichlorobenzene	333	343.0	102.9*	11.3	27	36-97
2-Methylphenol	333	379.3	113.8	19.9	34	32-119
3,4-Methylphenol	667	590.4	88.6	24.5	34	32-119
Hexachloroethane	333	344.2	103.3	14.9	26	40-113
Nitrobenzene	333	354.8	106.4	17.0	39	35-180
Hexachlorobutadiene	333	344.1	103.2	15.3	38	24-116
2,4,6-Trichlorophenol	333	327.0	98.1	29.3	34	37-144
2,4,5-Trichlorophenol	333	353.7	106.1	2.9	34	37-144
2,4-Dinitrotoluene	333	255.0	76.5	29.3	47	24-96
Hexachlorobenzene	333	370.7	111.2	2.9	60	10-152
Pentachlorophenol	333	288.5	86.6	5.3	47	10-103

* Indicates values outside of acceptability limits.11.2

a Acceptability limits are derived from USEPA requirements and laboratory practices.

RPD: **0** out of **12** outside limits.

Spike Recovery: **1** out of **24** outside limits.

GTEL Wichita, KS
6090371.827 : 6
Reissued Report

Project ID (Number): FWH03FWH03
Project ID (Name): HAFB
DO WAD
Holloman, NM
Work Order Number: W6-09-0371
Date Reported: 10-01-96

Table 3.5a

MATRIX SPIKE (MS) AND MATRIX SPIKE DUPLICATE (MSD) SUMMARY
PERCENT RECOVERY AND RELATIVE PERCENT DIFFERENCE (RPD)

Semivolatile Organics in TCLP Leachate
EPA Method 8270B[b]

Sample Spiked: W609031704 Client ID: SWMU3SP08

Analyte	Spike Added, mg/L	Sample Concentration, mg/L	MS Concentration, mg/L	MS Percent Recovery	Acceptability Limits, %[a]
Pyridine	333	<33	466.0	139.8	10-150
1,4-Dichlorobenzene	333	<33	341.0	102.3*	36-97
2-Methylphenol	333	<33	358.7	107.6	32-119
3,4-Methylphenol	667	<33	579.0	86.9	32-119
Hexachloroethane	333	<33	317.3	95.2	40-113
Nitrobenzene	333	<33	349.3	104.8	35-180
Hexachlorobutadiene	333	<33	328.3	98.5	24-116
2,4,6-Trichlorophenol	333	<33	324.3	97.3	37-144
2,4,5-Trichlorophenol	333	<33	350.7	105.2	37-144
2,4-Dinitrotoluene	333	<33	305.4	91.6	24-96
Hexachlorobenzene	333	<33	307.9	92.4	10-152
Pentachlorophenol	333	<167	333.0	99.9	10-103

3.5B

Analyte	Spike Added, mg/L	MSD Concentration, mg/L	MSD Percent Recovery	RPD, %	Acceptability Limits[a]	
					RPD	% Recovery
Pyridine	333	304.6	91.4	41.9	50	10-150
1,4-Dichlorobenzene	333	316.0	94.8	7.6	27	36-97
2-Methylphenol	333	335.7	100.7	6.6	34	32-119
3,4-Methylphenol	667	505.0	75.8	13.7	34	32-119
Hexachloroethane	333	300.7	90.2	5.4	26	40-113
Nitrobenzene	333	298.7	89.6	15.6	39	35-180
Hexachlorobutadiene	333	290.0	87.0	12.4	38	24-116
2,4,6-Trichlorophenol	333	259.2	77.8	22.3	34	37-144
2,4,5-Trichlorophenol	333	280.2	84.1	22.3	34	37-144
2,4-Dinitrotoluene	333	273.5	82.1	11.0	47	24-96
Hexachlorobenzene	333	308.8	92.7	0.3	60	10-152
Pentachlorophenol	333	314.6	94.4	5.7	47	10-103

* Indicates values outside of acceptability limits.

a Acceptability limits are derived from USEPA requirements and laboratory practices.

RPD: **0** out of **12** outside limits.

Spike Recovery: **1** out of **24** outside limits.

GTEL Wichita, KS
6090371.827 : 7
Reissued Report

Project ID (Number): FWH03FWH03
Project ID (Name): HAFB
DO WAD
Holloman, NM
Work Order Number: W6-09-0371
Date Reported: 10-01-96

Table 4

METHOD BLANK

Semivolatile Organics in TCLP Leachate[a]
EPA Method 8270B[b]

	GTEL File Number	BT092696BNA			
	Date Leached	09-20-96			
	Date Extracted	09-26-96			
	Extraction Fluid	#1			
	Date Analyzed	09-30-96			
Analyte	Quantitation Limit, mg/L	Concentration, mg/L			
o-Cresol	0.033	<0.033			
m-Cresol + p-Cresol	0.033	<0.033			
1,4-Dichlorobenzene	0.033	<0.033			
2,4-Dinitrotoluene	0.033	<0.033			
Hexachloro-1,3-butadiene	0.033	<0.033			
Hexachlorobenzene	0.033	<0.033			
Hexachloroethane	0.033	<0.033			
Nitrobenzene	0.033	<0.033			
Pentachlorophenol	0.17	<0.17			
Pyridine	0.033	<0.033			
2,4,5-Trichlorophenol	0.033	<0.033			
2,4,6-Trichlorophenol	0.033	<0.033			
Quantitation Limit Multiplier[c]		1			

a Test Methods for Evaluating Solid Waste, SW-846, Third Edition, Revision 0, US EPA, November 1986; extraction by EPA Method 3510 (liquid/liquid). TCLP performed as per 40 CFR, Part 261, Appendix II - Method 1311. These data are presented in accordance with the Federal Register, 57, p.55114, November 24, 1992.

b Test Methods for Evaluating Solid Waste, SW-846, Third Edition, Revision 2, US EPA, Jan 1995; extraction by EPA Method 3510 (liquid/liquid).

c The quantitation limit multiplier indicates the adjustments made to the reporting limits for sample dilutions.

NEI/GTEL
ENVIRONMENTAL LABORATORIES, INC.

Midwest Region
4211 May Avenue
Wichita, KS 67209
(316) 945-2624
(800) 633-7936
(316) 945-0506 (FAX)

October 1, 1996

Dan Holmquist
Foster Wheeler Environmental Corporation
241 Arkansas St. /Behind Rv Storage
Holloman A F B, NM 88330

RECEIVED OCT 07 1996

RE: GTEL Client ID: FWH03FWH03
Login Number: W6090371
Project ID (number):
Project ID (name): HAFB/DO WAD/HOLLOMAN/NM

Dear Dan Holmquist:

Enclosed please find the analytical results for the samples received by GTEL Environmental Laboratories, Inc. on 09/21/96 under Chain-of-Custody Number(s) 47740.

A formal Quality Assurance/Quality Control (QA/QC) program is maintained by GTEL, which is designed to meet or exceed the EPA requirements. Analytical work for this project met QA/QC criteria unless otherwise stated in the footnotes. This report is to be reproduced only in full.

NEI/GTEL is certified by the State of Kansas under Certification Numbers E-103, E-1113.

If you have any questions regarding this analysis, or if we can be of further assistance, please call our Customer Service Representative.

Sincerely,
GTEL Environmental Laboratories, Inc.

Carla K Phipps
Inorganics Mgr. for

Terry R. Loucks
Laboratory Director

Project ID (Number): FWH03FWH03
Project ID (Name): HAFB
DO WAD
Holloman, NM
Work Order Number: W6-09-0371
Date Reported: 10-01-96

ANALYTICAL RESULTS

Semivolatile Organics in TCLP Leachate[a]
EPA Method 8270B[b]

GTEL Sample Number		01	02	03	04
Client Identification		SWMU35PO5	SWMU35PO6	SWMU35PO7	SWMU35PO8
Date Sampled		09-20-96	09-20-96	09-20-96	09-20-96
Date Leached		09-24-96	09-24-96	09-24-96	09-24-96
Date Extracted		09-26-96	09-26-96	09-26-96	09-26-96
Extraction Fluid		#1	#1	#1	#1
Date Analyzed		09-30-96	10-01-96	10-01-96	09-30-96
Analyte	Reporting Limit, mg/L	Concentration, mg/L			
o-Cresol	0.033	<0.033	<0.033	<0.033	<0.033
m-Cresol + p-Cresol	0.033	<0.033	<0.033	<0.033	<0.033
1,4-Dichlorobenzene	0.033	<0.033	<0.033	<0.033	<0.033
2,4-Dinitrotoluene	0.033	<0.033	<0.033	<0.033	<0.033
Hexachloro-1,3-butadiene	0.033	<0.033	<0.033	<0.033	<0.033
Hexachlorobenzene	0.033	<0.033	<0.033	<0.033	<0.033
Hexachloroethane	0.033	<0.033	<0.033	<0.033	<0.033
Nitrobenzene	0.033	<0.033	<0.033	<0.033	<0.033
Pentachlorophenol	0.17	<0.17	<0.17	<0.17	<0.17
Pyridine	0.033	<0.033	<0.033	<0.033	<0.033
2,4,5-Trichlorophenol	0.033	<0.033	<0.033	<0.033	<0.033
2,4,6-Trichlorophenol	0.033	<0.033	<0.033	<0.033	<0.033
Quantitation Limit Multiplier[c]		1	1	1	1

a Test Methods for Evaluating Solid Waste, SW-846, Third Edition, Revision 0, US EPA, November 1986; extraction by EPA Method 3510 (liquid/liquid). TCLP performed as per 40 CFR, Part 261, Appendix II - Method 1311. These data are presented in accordance with the Federal Register, 57, p.55114, November 24, 1992.

b Test Methods for Evaluating Solid Waste, SW-846, Third Edition, Revision 2, US EPA, Jan 1995; extraction by EPA Method 3510 (liquid/liquid).

c The quantitation limit multiplier indicates the adjustments made to the reporting limits for sample dilutions.

Project ID (Number): FWH03FWH03
Project ID (Name): HAFB
DO WAD
Holloman, NM
Work Order Number: W6-09-0371
Date Reported: 10-01-96

ANALYTICAL RESULTS

Semivolatile Organics in TCLP Leachate[a]
EPA Method 8270B[b]

GTEL Sample Number		05	06	07	
Client Identification		SWMU35PO9	SWMU35P10	SWMU35P11	
Date Sampled		09-20-96	09-20-96	09-20-96	
Date Leached		09-24-96	09-24-96	09-24-96	
Date Extracted		09-26-96	09-26-96	09-26-96	
Extraction Fluid		#1	#1	#1	
Date Analyzed		10-01-96	10-01-96	10-01-96	
Analyte	Reporting Limit, mg/L	Concentration, mg/L			
o-Cresol	0.033	<0.033	<0.033	<0.033	
m-Cresol + p-Cresol	0.033	<0.033	<0.033	<0.033	
1,4-Dichlorobenzene	0.033	<0.033	<0.033	<0.033	
2,4-Dinitrotoluene	0.033	<0.033	<0.033	<0.033	
Hexachloro-1,3-butadiene	0.033	<0.033	<0.033	<0.033	
Hexachlorobenzene	0.033	<0.033	<0.033	<0.033	
Hexachloroethane	0.033	<0.033	<0.033	<0.033	
Nitrobenzene	0.033	<0.033	<0.033	<0.033	
Pentachlorophenol	0.17	<0.17	<0.17	<0.17	
Pyridine	0.033	<0.033	<0.033	<0.033	
2,4,5-Trichlorophenol	0.033	<0.033	<0.033	<0.033	
2,4,6-Trichlorophenol	0.033	<0.033	<0.033	<0.033	
Quantitation Limit Multiplier[c]		1	1	1	

a Test Methods for Evaluating Solid Waste, SW-846, Third Edition, Revision 0, US EPA, November 1986; extraction by EPA Method 3510 (liquid/liquid). TCLP performed as per 40 CFR, Part 261, Appendix II - Method 1311. These data are presented in accordance with the Federal Register, 57, p.55114, November 24, 1992.

b Test Methods for Evaluating Solid Waste, SW-846, Third Edition, Revision 2, US EPA, Jan 1995; extraction by EPA Method 3510 (liquid/liquid).

c The quantitation limit multiplier indicates the adjustments made to the reporting limits for sample dilutions.

Project ID (Number): FWH03FWH03
Project ID (Name): HAFB
DO WAD
Holloman, NM
Work Order Number: W6-09-0371
Date Reported: 10-01-96

QA NONCONFORMANCE SUMMARY

Semivolatile Organics in TCLP Leachate
EPA Method 8270B[b]

1.0 Sample Handling

1.1 Sample handling and holding time criteria were not met for **0** samples.

2.0 Surrogate Compound Recoveries

2.1 The recovery limits were exceeded for **0** surrogate compounds as shown in Table 2.

3.0 Laboratory control spike (LCS) and Matrix Spike (MS) Accuracy

3.1 The recovery limits were exceeded in the matrix spike for **2** compounds as shown in Table 3A and 3.5A; however, accuracy for these compounds is demonstrated in the laboratory control spike and matrix spike duplicate respectively.

4.0 Sample Duplicate Precision

4.1 The maximum percent difference (RPD) was exceeded for **0** compounds in the duplicate samples as shown in Table 3B and 3.5B.

5.0 Method Blanks

5.1 **Zero** target compounds were found in the method blank as shown in Table 4.

Project ID (Number): FWH03FWH03
Project ID (Name): HAFB
DO WAD
Holloman, NM
Work Order Number: W6-09-0371
Date Reported: 10-01-96

Table 2

SURROGATE RECOVERY SUMMARY

Semivolatile Organics in TCLP Leachate
EPA Method 8270B[b]

GTEL No.	Percent Recovery, %						
	S1 (NBZ)	S2 (FBP)	S3 (TPH)	S4 (PHL)	S5 (2FP)	S6 (TBP)	TOT OUT
BT092696BNA	57.4	73.7	120	38.3	63.8	54.3	0
LT092696BNA	69.4	67.1	59.6	39.7	60.4	64.4	0
LTD092696BNA	83.0	77.2	121.4	49.0	68.0	68.0	0
W609037101	61.7	71.4	119.5	45.1	68.2	68.6	0
W609037102	56.7	64.5	111.6	42.0	58.0	62.2	0
W609037103	58.8	67.3	110.4	36.5	60.2	60.8	0
W609037104	56.2	60.8	108.7	32.4	53.2	65.8	0
MS09037104	76.5	68.5	112.9	45.5	68.4	73.4	0
MD09037104	60.3	63.3	105.7	38.4	55.4	64.3	0

	Surrogates		Recovery Limits[a]
S1	NBZ	Nitrobenzene-d5	35-114
S2	FBP	2-Fluorobiphenyl	43-116
S3	TPH	Terphenyl-d14	33-141
S4	PHL	Phenol-d5	10- 94
S5	2FP	2-Fluorophenol	21-100
S6	TBP	2,4,6-Tribromophenol	10-123

D Surrogate diluted out.
* Indicates values outside of acceptability limits.
a Acceptability limits are derived from USEPA Contract Laboratory Program (CLP) guidelines.

Project ID (Number): FWH03FWH03
Project ID (Name): HAFB
DO WAD
Holloman, NM
Work Order Number: W6-09-0371
Date Reported: 10-01-96

Table 2

SURROGATE RECOVERY SUMMARY

Semivolatile Organics in TCLP Leachate
EPA Method 8270B[b]

GTEL No.	Percent Recovery, %						
	S1 (NBZ)	S2 (FBP)	S3 (TPH)	S4 (PHL)	S5 (2FP)	S6 (TBP)	TOT OUT
W609037105	63.6	75.2	111.6	35.5	64.2	63.4	0
W609037106	55.4	68.3	115.3	33.0	60.0	61.8	0
W609037107	54.2	60.8	108.4	34.8	59.0	61.6	0

	Surrogates		Recovery Limits[a]
S1	NBZ	Nitrobenzene-d5	35-114
S2	FBP	2-Fluorobiphenyl	43-116
S3	TPH	Terphenyl-d14	33-141
S4	PHL	Phenol-d5	10- 94
S5	2FP	2-Fluorophenol	21-100
S6	TBP	2,4,6-Tribromophenol	10-123

D Surrogate diluted out.
* Indicates values outside of acceptability limits.
a Acceptability limits are derived from USEPA Contract Laboratory Program (CLP) guidelines.

Project ID (Number): FWH03FWH03
Project ID (Name): HAFB
DO WAD
Holloman, NM
Work Order Number: W6-09-0371
Date Reported: 10-01-96

Table 3

MATRIX SPIKE (MS) AND MATRIX SPIKE DUPLICATE (MSD) SUMMARY
PERCENT RECOVERY AND RELATIVE PERCENT DIFFERENCE (RPD)

Semivolatile Organics in TCLP Leachate
EPA Method 8270B[b]

Sample Spiked: LT092696BNA Client ID: EF#1

Analyte	Spike Added, mg/L	Sample Concentration, mg/L	MS Concentration, mg/L	MS Percent Recovery	Acceptability Limits, %[a]
Pyridine	333	<33	340.2	102.1	10-150
1,4-Dichlorobenzene	333	<33	306.5	91.9	36-97
2-Methylphenol	333	<33	310.8	93.2	32-119
3,4-Methylphenol	667	<33	461.7	69.3	32-119
Hexachloroethane	333	<33	296.3	88.9	40-113
Nitrobenzene	333	<33	299.2	89.8	35-180
Hexachlorobutadiene	333	<33	295.3	88.6	24-116
2,4,6-Trichlorophenol	333	<33	243.6	73.1	37-144
2,4,5-Trichlorophenol	333	<33	263.4	79.0	37-144
2,4-Dinitrotoluene	333	<33	247.8	74.3	24-96
Hexachlorobenzene	333	<33	351.7	105.5	10-152
Pentachlorophenol	333	<167	257.9	77.4	10-103

Analyte	Spike Added, mg/L	MSD Concentration, mg/L	MSD Percent Recovery	RPD, %	Acceptability Limits[a]	
					RPD	% Recovery
Pyridine	333	447.7	134.3	27.3	50	10-150
1,4-Dichlorobenzene	333	343.0	102.9*	11.3	27	36-97
2-Methylphenol	333	379.3	113.8	19.9	34	32-119
3,4-Methylphenol	667	590.4	88.6	24.5	34	32-119
Hexachloroethane	333	344.2	103.3	14.9	26	40-113
Nitrobenzene	333	354.8	106.4	17.0	39	35-180
Hexachlorobutadiene	333	344.1	103.2	15.3	38	24-116
2,4,6-Trichlorophenol	333	327.0	98.1	29.3	34	37-144
2,4,5-Trichlorophenol	333	353.7	106.1	2.9	34	37-144
2,4-Dinitrotoluene	333	255.0	76.5	29.3	47	24-96
Hexachlorobenzene	333	370.7	111.2	2.9	60	10-152
Pentachlorophenol	333	288.5	86.6	5.3	47	10-103

* Indicates values outside of acceptability limits.11.2

a Acceptability limits are derived from USEPA requirements and laboratory practices.

RPD: **0** out of **12** outside limits.

Spike Recovery: **1** out of **24** outside limits.

Project ID (Number): FWH03FWH03
Project ID (Name): HAFB
DO WAD
Holloman, NM
Work Order Number: W6-09-0371
Date Reported: 10-01-96

Table 3.5a

MATRIX SPIKE (MS) AND MATRIX SPIKE DUPLICATE (MSD) SUMMARY
PERCENT RECOVERY AND RELATIVE PERCENT DIFFERENCE (RPD)

Semivolatile Organics in TCLP Leachate
EPA Method 8270B[b]

Sample Spiked: W609031704 **Client ID:** SWMU3SP08

Analyte	Spike Added, mg/L	Sample Concentration, mg/L	MS Concentration, mg/L	MS Percent Recovery	Acceptability Limits, %[a]
Pyridine	333	<33	466.0	139.8	10-150
1,4-Dichlorobenzene	333	<33	341.0	102.3*	36-97
2-Methylphenol	333	<33	358.7	107.6	32-119
3,4-Methylphenol	667	<33	579.0	86.9	32-119
Hexachloroethane	333	<33	317.3	95.2	40-113
Nitrobenzene	333	<33	349.3	104.8	35-180
Hexachlorobutadiene	333	<33	328.3	98.5	24-116
2,4,6-Trichlorophenol	333	<33	324.3	97.3	37-144
2,4,5-Trichlorophenol	333	<33	350.7	105.2	37-144
2,4-Dinitrotoluene	333	<33	305.4	91.6	24-96
Hexachlorobenzene	333	<33	307.9	92.4	10-152
Pentachlorophenol	333	<167	333.0	99.9	10-103

3.5B

Analyte	Spike Added, mg/L	MSD Concentration, mg/L	MSD Percent Recovery	RPD, %	Acceptability Limits[a]	
					RPD	% Recovery
Pyridine	333	304.6	91.4	41.9	50	10-150
1,4-Dichlorobenzene	333	316.0	94.8	7.6	27	36-97
2-Methylphenol	333	335.7	100.7	6.6	34	32-119
3,4-Methylphenol	667	505.0	75.8	13.7	34	32-119
Hexachloroethane	333	300.7	90.2	5.4	26	40-113
Nitrobenzene	333	298.7	89.6	15.6	39	35-180
Hexachlorobutadiene	333	290.0	87.0	12.4	38	24-116
2,4,6-Trichlorophenol	333	259.2	77.8	22.3	34	37-144
2,4,5-Trichlorophenol	333	280.2	84.1	22.3	34	37-144
2,4-Dinitrotoluene	333	273.5	82.1	11.0	47	24-96
Hexachlorobenzene	333	308.8	92.7	0.3	60	10-152
Pentachlorophenol	333	314.6	94.4	5.7	47	10-103

* Indicates values outside of acceptability limits.

a Acceptability limits are derived from USEPA requirements and laboratory practices.

RPD: **0** out of **12** outside limits.

Spike Recovery: **1** out of **24** outside limits.

Project ID (Number): FWH03FWH03
Project ID (Name): HAFB
DO WAD
Holloman, NM
Work Order Number: W6-09-0371
Date Reported: 10-01-96

Table 4

METHOD BLANK

Semivolatile Organics in TCLP Leachate[a]
EPA Method 8270B[b]

	GTEL File Number	BT092696BNA			
	Date Leached	09-20-96			
	Date Extracted	09-26-96			
	Extraction Fluid	#1			
	Date Analyzed	09-30-96			
Analyte	Quantitation Limit, mg/L	Concentration, mg/L			
o-Cresol	0.033	<0.033			
m-Cresol + p-Cresol	0.033	<0.033			
1,4-Dichlorobenzene	0.033	<0.033			
2,4-Dinitrotoluene	0.033	<0.033			
Hexachloro-1,3-butadiene	0.033	<0.033			
Hexachlorobenzene	0.033	<0.033			
Hexachloroethane	0.033	<0.033			
Nitrobenzene	0.033	<0.033			
Pentachlorophenol	0.17	<0.17			
Pyridine	0.033	<0.033			
2,4,5-Trichlorophenol	0.033	<0.033			
2,4,6-Trichlorophenol	0.033	<0.033			
Quantitation Limit Multiplier[c]		1			

a Test Methods for Evaluating Solid Waste, SW-846, Third Edition, Revision 0, US EPA, November 1986; extraction by EPA Method 3510 (liquid/liquid). TCLP performed as per 40 CFR, Part 261, Appendix II - Method 1311. These data are presented in accordance with the Federal Register, 57, p.55114, November 24, 1992.

b Test Methods for Evaluating Solid Waste, SW-846, Third Edition, Revision 2, US EPA, Jan 1995; extraction by EPA Method 3510 (liquid/liquid).

c The quantitation limit multiplier indicates the adjustments made to the reporting limits for sample dilutions.

Project ID (Number): FWH03FWH03
Project ID (Name): HAFB
DO WAD
Holloman, NM
Work Order Number: W6-09-0371
Date Reported: 10-01-96

ANALYTICAL RESULTS

Inorganics

		GTEL Sample Number	01	02	03	04
		Client Identification	SWMU3 SP05	SWMU3 SP06	SWMU3 SP07	SWMU3 SP08
		Date Sampled	09-20-96	09-20-96	09-20-96	09-20-96
		Date Analyzed	09-24 to 09-30-96	09-24 to 09-30-96	09-24 to 09-30-96	09-24 to 09-30-96
Analyte	Method	QL* & Units	Concentration, dry weight			
Closed Cup Flashpoint	ASTM D93	NA °F	>200[a]	>200[a]	>200[a]	>200[a]
Paint Filter	EPA 9095	NA	No liquids redeemed	No liquids redeemed	No liquids redeemed	No liquids redeemed
pH	EPA 9045B	NA	7.1	7.5	7.6	7.6
Total Cyanide	EPA 9010A	2.0 mg/Kg	<2.0	<2.0	<2.0	<2.0
Reactivity Sulfide	SW846 7.3.4.2	25 mg/Kg	<25	**38**	**55**	<25
Percent Solids			81.5	82.3	72.4	79.2

* Quantitation Limit
a No official method exists for the determination of ignitability for solid samples.
NA Not applicable

Project ID (Number): FWH03FWH03
Project ID (Name): HAFB
DO WAD
Holloman, NM
Work Order Number: W6-09-0371
Date Reported: 10-01-96

ANALYTICAL RESULTS

Inorganics in Soil

		GTEL Sample Number	05	06	07	
		Client Identification	SWMU3 SP09	SWMU3 SP10	SWMU3 SP11	
		Date Sampled	09-20-96	09-20-96	09-20-96	
		Date Analyzed	09-24 to 09-30-96	09-24 to 09-30-96	09-24 to 09-30-96	
Analyte	Method	QL* & Units	Concentration			
Closed Cup Flashpoint	ASTM D93	NA °F	>200[a]	>200[a]	>200[a]	
Paint Filter	EPA 9095	NA	No liquids redeemed	No liquids redeemed	No liquids redeemed	
pH	EPA 9045B	NA	7.7	7.7	7.0	
Total Cyanide	EPA 9010A	2.0 mg/Kg	<2.0	<2.0	<2.0	
Reactivity Sulfide	SW846 7.3.4.2	25 mg/Kg	<25	<25	<25	
Percent Solids			83.1	80.1	79.2	

a No official method exists for the determination of ignitability for solid samples.

* Quantitation Limit.

NA Not applicable

Project ID (Number): FWH03FWH03
Project ID (Name): HAFB
DO WAD
Holloman, NM
Work Order Number: W6-09-0371
Date Reported: 10-01-96

QA NONCONFORMANCE SUMMARY

Inorganics

1.0 Sample Handling

1.1 Sample handling and holding time criteria were not met for zero samples.

2.0 Initial Calibration Verification

2.1 The criteria for the calibration verification QC Check Sample was exceeded for zero samples as shown in Table 2.

3.0 Method Blanks

3.1 Zero target analytes were found in the method blank as shown in Table 3.

4.0 Matrix Spike (MS) Accuracy

4.1 The recovery limits were exceeded in the matrix spike for one analyte as shown in Table 4.

4.2 Acceptability limits were exceeded in the matrix spike for reactivity sulfide due to matrix interference. The laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) recovery were within acceptability limits as shown in Table 6.

5.0 Matrix Spike Duplicate Precision

5.1 The maximum percent difference (RPD) was exceeded for zero analytes in the duplicate samples as shown in Table 5.

5.2 The maximum percent difference was exceeded for reactivity sulfide due to matrix interference and sample heterogeneity. The laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) recovery were within acceptability limits as shown in Table 6.

6.0 Laboratory Control Sample

6.1 The recovery limits were not met for zero analytes in the Laboratory Control Sample as shown in Table 6.

Project ID (Number): FWH03FWH03
Project ID (Name): HAFB
DO WAD
Holloman, NM
Work Order Number: W6-09-0371
Date Reported: 10-01-96

Table 2

INITIAL CALIBRATION VERIFICATION QC CHECK SAMPLE REPORT

Inorganics

Analyte	Expected Result	Observed Result	Units	Recovery, %	Acceptability Limits, %[a]
Total Cyanide	0.125	0.121	mg/L	96.8	90-110

a Acceptability limits established by laboratory practice.

Table 3

BLANK REPORT

Inorganics

Analyte	Initial Calibration Blank	Units	Preparation Blank	Units
Total Cyanide	<0.02	mg/L	<2.0	mg/Kg
Reactivity Sulfide	<25	mg/Kg	<25	mg/Kg

Project ID (Number): FWH03FWH03
Project ID (Name): HAFB
DO WAD
Holloman, NM
Work Order Number: W6-09-0371
Date Reported: 10-01-96

Table 4

MATRIX SPIKE (MS) RECOVERY SUMMARY

Inorganics

Sample Spiked: Total Cyanide W6090315-01
Sample Spiked: Reactivity Sulfide W6090371-01

Analyte	MS Sample Result	Sample Result	Amount Added	Units	MS, % Recovery	Acceptability Limits, %[a]
Total Cyanide	19.2	<4.0	17.7	mg/Kg	108	80-120
Reactivity Sulfide	352	<25	930	mg/Kg	37.8[b]	60-140

a Acceptability limits established by laboratory practice.

b Indicates a value outside acceptability limits.

Table 5

MATRIX SPIKE DUPLICATE SAMPLE RESULTS
AND RELATIVE PERCENT DIFFERENCE (RPD) SUMMARY

Inorganics

Analyte	Matrix Spike Result	Matrix Spike Duplicate Result	Units	RPD, %	Maximum RPD, %[a]
Total Cyanide	108	106	%	1.87	20
Reactivity Sulfide	37.8	48.9	%	25.6[b]	20

a Acceptability limits established by laboratory practice.
b Indicates a value outside acceptability limits

Table 6

LABORATORY CONTROL SAMPLE RESULTS

Inorganics

Analyte	Expected Result	Observed Result	Units	Recovery, %	Acceptability Limits, %[a]
Total Cyanide	19.4	17.5	mg/Kg	90.1	80-120
Reactivity Sulfide (LCS)	951	753	mg/Kg	79.2	60-140
Reactivity Sulfide (LCSD)	951	747	mg/Kg	78.6	60-140

ANALYTICAL RESULTS
Metals

GTEL Client ID: FWH03FWH03
Login Number: W6090371
Project ID (number): FWH03FWH03
Project ID (name): HAFB/DO WAD/HOLLOMAN/NM

Method: EPA 7421
Matrix: Solids

GTEL Sample Number	W6090371-09	W6090371-10	W6090371-11	W6090371-12
Client ID	SWMU3 SP05	SWMU3 SP06	SWMU3 SP07	SWMU3 SP08
Date Sampled	09/20/96	09/20/96	09/20/96	09/20/96
Date Prepared	09/27/96	09/27/96	09/27/96	09/27/96
Date Analyzed	10/01/96	09/30/96	09/30/96	09/30/96
Dilution Factor	2.00	5.00	5.00	5.00

Analyte	Reporting Limit	Units	Concentration:Dry Weight			
Lead	0.40	mg/kg	5.9	9.2	8.4	11.
Percent Solids	--	%	81.5	82.3	72.4	79.2

Notes:

Dilution Factor:

Dilution factor indicates the adjustments made for sample dilution.

EPA 7421:

Digestion by EPA Method 3050A. "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW-846, Third Edition including Update 2.

ANALYTICAL RESULTS
Metals

GTEL Client ID: FWH03FWH03
Login Number: W6090371
Project ID (number): FWH03FWH03
Project ID (name): HAFB/DO WAD/HOLLOMAN/NM

Method: EPA 7421
Matrix: Solids

GTEL Sample Number	W6090371-13	W6090371-14	W6090371-15	--
Client ID	SWMU3 SP09	SWMU3 SP10	SWMU3 SP11	--
Date Sampled	09/20/96	09/20/96	09/20/96	--
Date Prepared	09/27/96	09/27/96	09/27/96	
Date Analyzed	09/30/96	09/30/96	10/01/96	--
Dilution Factor	5.00	5.00	5.00	--

Analyte	Reporting Limit	Units	Concentration:Dry Weight			
Lead	0.40	mg/kg	6.6	7.2	8.3	--
Percent Solids	--	%	83.1	80.1	79.2	--

Notes:

Dilution Factor:

Dilution factor indicates the adjustments made for sample dilution.

EPA 7421:

Digestion by EPA Method 3050A. "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW-846, Third Edition including Update 2.

Project ID (Number): FWH03WH03
Project ID (Name): HAFB
DO WAD
HOLLOMAN, NM
Work Order Number: W6-09-0371
Date Reported: 10-01-96

QA NONCONFORMANCE SUMMARY

1.0 Sample Handling

1.1 Sample handling and holding time criteria were not met for zero samples.

2.0 Initial Calibration Verification

2.1 The validity for the calibration verification was exceeded for zero samples as shown in Table 2.

3.0 Method Blanks

3.1 Zero target elements were found in the method blank as shown in Table 3.

4.0 Matrix Spike (MS) Accuracy

4.1 The recovery limits were exceeded in the matrix spike for one element as shown in Table 4.

4.2 The recovery limits were exceeded for lead in the matrix spike sample due to heterogeneity.

5.0 Sample Duplicate Precision

5.1 The maximum percent difference (RPD) was exceeded for one element in the matrix spike and matrix spike duplicate samples as shown in Table 4.

5.2 Maximum relative percent difference was exceeded between the matrix spike and matrix spike duplicate samples for lead due to heterogeneity.

6.0 Laboratory Control Sample

6.1 The recovery limits were not met for zero elements for the laboratory control samples as shown in Table 5.

Project ID (Number): FWH03WH03
Project ID (Name): HAFB
DO WAD
HOLLOMAN, NM
Work Order Number: W6-09-0371
Date Reported: 10-01-96

Table 2

INITIAL CALIBRATION VERIFICATION,
QC CHECK SAMPLE REPORT

Lead in Soil

Analyte	Expected Result, ug/L	Observed Result, ug/L	Recovery, %	QC Limits, %[a]
Lead	20.0	20.8	104	90-110

a Acceptability limits as per EPA Contract Laboratory Program.

Table 3

BLANK REPORT

Lead in Soil

Analyte	Initital Calibration Blank, ug/L	Preparation Blank, mg/Kg
Lead	<4.00	<0.400

<# Not detected at the indicated detection limit (#)

Project ID (Number): FWH03WH03
Project ID (Name): HAFB
DO WAD
HOLLOMAN, NM
Work Order Number: W6-09-0371
Date Reported: 10-01-96

Table 4

MATRIX SPIKE AND MATRIX SPIKE DUPLICATE SUMMARY

Lead in Soil
EPA Method 7421

Sample Spiked: W6090516-06

Analyte	Spike Added, mg/kg	Sample Concentration, mg/kg	MS Concentration, mg/kg	MS Percent Recovery	Acceptability Limits, %[a]
Lead	1.85	3.26	18.2	809[b]	75-125

Analyte	Spike Added, mg/kg	MSD Concentration, mg/kg	MSD Percent Recovery	RPD %	Acceptability Limits, %[a]
					RPD
Lead	1.72	5.85	150	137[b]	20.0

a Acceptability limits as per EPA Contract Laboratory Program.

b Indicates a result outside acceptability limits.

NA Not applicable; initital sample concentration is greater than four times the spike amount.

Table 5

LABORATORY CONTROL SAMPLE RESULTS

Lead in Soil

Analyte	Expected Result, mg/Kg	Observed Result, mg/Kg	Recovery, %	Acceptability Limits, %[a]
Lead	2.00	2.04	102	80-120

a Acceptability limits established by laboratory practice.

ANALYTICAL RESULTS
Results For Multiple Methods

GTEL Client ID: FWH03FWH03
Lab Number: W6090371
Project ID (number): FWH03FWH03
Project ID (name): HAFB/DO WAD/HOLLOMAN/NM

Method: See Below
Matrix: Solids

	GTEL Sample Number	W6090371-01	W6090371-02	W6090371-03	W6090371-04
	Client ID	SWMU3 SP05	SWMU3 SP06	SWMU3 SP07	SWMU3 SP08
	Date Sampled	09/20/96	09/20/96	09/20/96	09/20/96
EPA 1311/6010A	Date Prepared	09/25/96	09/25/96	09/25/96	09/25/96
EPA 1311/6010A	Date Analyzed	09/27/96	09/27/96	09/27/96	09/27/96
EPA 1311/6010A	Dilution Factor	4.00	4.00	4.00	4.00
EPA 1311/7470	Date Prepared	09/25/96	09/25/96	09/25/96	09/25/96
EPA 1311/7470	Date Analyzed	09/26/96	09/26/96	09/26/96	09/26/96
EPA 1311/7470	Dilution Factor	2.00	2.00	2.00	2.00

Analyte		Reporting Limit	Units				
Inorganics (MT, WC)							
Arsenic	EPA 1311/6010A	0.10	mg/L	< 0.40	< 0.40	< 0.40	< 0.40
Barium	EPA 1311/6010A	1.0	mg/L	< 4.0	< 4.0	< 4.0	< 4.0
Cadmium	EPA 1311/6010A	0.020	mg/L	< 0.080	< 0.080	< 0.080	< 0.080
Chromium	EPA 1311/6010A	0.020	mg/L	< 0.080	< 0.080	< 0.080	< 0.080
Lead	EPA 1311/6010A	0.10	mg/L	< 0.40	< 0.40	< 0.40	< 0.40
Mercury	EPA 1311/7470	0.0040	mg/L	< 0.0080	< 0.0080	< 0.0080	< 0.0080
Selenium	EPA 1311/6010A	0.040	mg/L	< 0.16	< 0.16	< 0.16	< 0.16
Silver	EPA 1311/6010A	0.020	mg/L	< 0.080	< 0.080	< 0.080	< 0.080

Notes:

Dilution Factor:
Dilution factor indicates the adjustments made for sample dilution.

EPA 1311/6010A:
Digestion for Total Metals by EPA Method 3010A.

EPA 1311/7470:
Digestion is method specific.

EPA 1311/6010A, EPA 1311/7470:
"Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW-846, Third Edition including Update 2. TCLP is performed as per 40 CFR, Part 261, Appendix II - EPA Method 1311.

ANALYTICAL RESULTS
Results For Multiple Methods

GTEL Client ID: FWH03FWH03
Login Number: W6090371
Project ID (number): FWH03FWH03
Project ID (name): HAFB/DO WAD/HOLLOMAN/NM

Method: See Below
Matrix: Solids

	GTEL Sample Number	W6090371-05	W6090371-06	W6090371-07	--
	Client ID	SWMU3 SP09	SWMU3 SP10	SWMU3 SP11	--
	Date Sampled	09/20/96	09/20/96	09/20/96	--
EPA 1311/6010A	Date Prepared	09/25/96	09/25/96	09/25/96	--
EPA 1311/6010A	Date Analyzed	09/27/96	09/27/96	09/27/96	--
EPA 1311/6010A	Dilution Factor	4.00	4.00	4.00	--
EPA 1311/7470	Date Prepared	09/25/96	09/25/96	09/25/96	--
EPA 1311/7470	Date Analyzed	09/26/96	09/26/96	09/26/96	--
EPA 1311/7470	Dilution Factor	2.00	2.00	2.00	--

Analyte		Reporting Limit	Units				
Arsenic	EPA 1311/6010A	0.10	mg/L	< 0.40	< 0.40	< 0.40	--
Barium	EPA 1311/6010A	1.0	mg/L	< 4.0	< 4.0	< 4.0	--
Cadmium	EPA 1311/6010A	0.020	mg/L	< 0.080	< 0.080	< 0.080	--
Chromium	EPA 1311/6010A	0.020	mg/L	< 0.080	< 0.080	< 0.080	--
Lead	EPA 1311/6010A	0.10	mg/L	< 0.40	< 0.40	< 0.40	--
Mercury	EPA 1311/7470	0.0040	mg/L	< 0.0080	< 0.0080	< 0.0080	--
Selenium	EPA 1311/6010A	0.040	mg/L	< 0.16	< 0.16	< 0.16	--
Silver	EPA 1311/6010A	0.020	mg/L	< 0.080	< 0.080	< 0.080	--

Notes:

Dilution Factor:

Dilution factor indicates the adjustments made for sample dilution.

EPA 1311/6010A:

Digestion for Total Metals by EPA Method 3010A.

EPA 1311/7470:

Digestion is method specific.

EPA 1311/6010A, EPA 1311/7470:

"Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW-846, Third Edition including Update 2. TCLP is performed as per 40 CFR, Part 261, Appendix II - EPA Method 1311.

Project ID (Number): FWH03FWH03
Project ID (Name): HAFB
DO WAD
Holloman, NM
Work Order Number: W6-09-0371
Date Reported: 10-01-96

QA NONCONFORMANCE SUMMARY

Metals in TCLP Leachate

1.0 Sample Handling

1.1 Sample handling and holding time criteria were not met for zero samples.

2.0 Initial Calibration Verification

2.1 The validity for the calibration verification was exceeded for zero samples as shown in Table 2.

3.0 Method Blanks

3.1 Zero target elements were found in the method blank as shown in Table 3.

4.0 Matrix Spike (MS) Accuracy

4.1 The recovery limits were exceeded for one element in the matrix spike samples as shown in Table 4.

4.2 The recovery limits were exceeded for silver in the matrix spike sample due to precipitation of the spike in the presence of concentrated acid.

5.0 Matrix Spike and Matrix Spike Duplicate Precision

5.1 The maximum percent difference (RPD) was exceeded for zero elements in the matrix spike and matrix spike duplicate samples as shown in Table 4.

6.0 Laboratory Control Sample

6.1 The recovery limits were not met for one element for the laboratory control samples as shown in Table 5.

6.2 The recovery limits were exceeded in the laboratory control sample for silver due to precipitation of the silver spike in the presence of concentrated acid.

Project ID (Number): FWH03FWH03
Project ID (Name): HAFB
DO WAD
Holloman, NM
Work Order Number: W6-09-0371
Date Reported: 10-01-96

Table 2

INITIAL CALIBRATION VERIFICATION QC CHECK SAMPLE REPORT

Metals in TCLP Leachate

Analyte	Expected Result, mg/L	Observed Result, mg/L	Recovery, %	Acceptability Limits, %[a]
Arsenic	1.01	1.02	101	90-110
Barium	1.00	1.01	101	90-110
Cadmium	1.00	1.01	101	90-110
Chromium	1.00	0.993	99.2	90-110
Lead	1.00	1.03	103	90-110
Mercury	0.00400	0.00414	104	90-110
Selenium	1.00	0.981	98.1	90-110
Silver	0.500	0.505	101	90-110

a Acceptability limits established by laboratory practice.

Project ID (Number): FWH03FWH03
Project ID (Name): HAFB
DO WAD
Holloman, NM
Work Order Number: W6-09-0371
Date Reported: 10-01-96

Table 3

BLANK REPORT

Metals in TCLP Leachate

Analyte	Initial Calibration Blank, mg/L	Preparation Blank, mg/L
Arsenic	<0.40	<0.40
Barium	<4.0	<4.0
Cadmium	<0.080	<0.080
Chromium	<0.080	<0.080
Lead	<0.40	<0.40
Mercury	<0.0080	<0.0080
Selenium	<0.16	<0.16
Silver	<0.080	<0.080

<# Not detected at the indicated detection limit(#).

Project ID (Number): FWH03FWH03
Project ID (Name): HAFB
DO WAD
Holloman, NM
Work Order Number: W6-09-0371
Date Reported: 10-01-96

Table 4A

MATRIX SPIKE AND MATRIX SPIKE DUPLICATE SUMMARY

Metals in TCLP Leachate

Sample Spiked: W6090371-01

Analyte	Spike Added, mg/L	Sample Concentration, mg/L	MS Concentration, mg/L	MS Percent Recovery	Acceptability Limits, %[a]
Arsenic	8.00	<0.40	7.99	99.9	80-120
Barium	8.00	<4.0	8.16	102	80-120
Cadmium	4.00	<0.080	3.94	98.4	80-120
Chromium	8.00	<0.080	7.45	93.2	80-120
Lead	8.00	<0.40	7.98	99.7	80-120
Mercury	0.0080	<0.0080	0.00808	101	75-125
Selenium	8.00	<0.16	7.79	97.4	80-120
Silver	1.60	<0.080	1.27	79.5[b]	80-120

a Acceptability limits as per EPA Contract Laboratory Program.

b Value outside acceptability limit.

NA Not applicable; sample result greater than four times spike amount.

Project ID (Number): FWH03FWH03
Project ID (Name): HAFB
DO WAD
Holloman, NM
Work Order Number: W6-09-0371
Date Reported: 10-01-96

Table 4B

MATRIX SPIKE AND MATRIX SPIKE DUPLICATE SUMMARY

Metals in TCLP Leachate

Analyte	Spike Added, mg/L	MSD Concentration, mg/L	MSD Percent Recovery	RPD %	Acceptability Limits, %[a]
					RPD
Arsenic	8.00	7.94	99.3	0.569	20.0
Barium	8.00	8.20	102	0.476	20.0
Cadmium	4.00	3.98	99.4	1.03	20.0
Chromium	8.00	7.46	93.3	0.164	20.0
Lead	8.00	7.92	99.0	0.700	20.0
Mercury	0.0080	0.00809	101	0.00	20.0
Selenium	8.00	8.01	100	2.78	20.0
Silver	1.60	1.22	76.1	4.35	20.0

a Acceptability limits as per EPA Contract Laboratory Program.

NA Not applicable; sample result greater than four times spike amount.

Project ID (Number): FWH03FWH03
Project ID (Name): HAFB
DO WAD
Holloman, NM
Work Order Number: W6-09-0371
Date Reported: 10-01-96

Table 5

LABORATORY CONTROL SAMPLE RESULTS

Metals in TCLP Leachate

Analyte	Expected Result, mg/L	Observed Result, mg/L	Recovery, %	Acceptability Limits, %[a]
Arsenic	8.00	7.99	99.9	80-120
Barium	8.00	8.96	112	80-120
Cadmium	4.00	4.12	103	80-120
Chromium	8.00	7.86	98.2	80-120
Lead	8.00	8.30	104	80-120
Mercury	0.0080	0.00802	100	75-125
Selenium	8.00	8.00	100	80-120
Silver	1.60	0.971	60.7[b]	80-120

a Acceptability limits established by laboratory practice.

b Value is outside of acceptability limits.

ANALYTICAL RESULTS
Organochlorine Pesticides and/or PCB's

GTEL Client ID: FWH03FWH03
'ogin Number: W6090371
oject ID (number): FWH03FWH03
Project ID (name): HAFB/DO WAD/HOLLOMAN/NM

Method: EPA 8081
Matrix: Solids

GTEL Sample Number	W6090371-01	W6090371-02	W6090371-03	W6090371-04
Client ID	SWMU3 SP05	SWMU3 SP06	SWMU3 SP07	SWMU3 SP08
Date Sampled	09/20/96	09/20/96	09/20/96	09/20/96
Date Prepared	09/26/96	09/26/96	09/26/96	09/26/96
Date Analyzed	10/01/96	10/01/96	10/01/96	10/01/96
Dilution Factor	1.00	1.00	1.00	1.00

Analyte	Reporting Limit	Units	Concentration:Dry Weight			
PCB - Aroclor 1221	10.	ug/kg	< 10.	< 10.	< 10.	< 10.
PCB - Aroclor 1232	10.	ug/kg	< 10.	< 10.	< 10.	< 10.
PCB - Aroclor 1242 (1016)	10.	ug/kg	< 10.	< 10.	< 10.	< 10.
PCB - Aroclor 1248	10.	ug/kg	< 10.	< 10.	< 10.	< 10.
PCB - Aroclor 1254	10.	ug/kg	< 10.	< 10.	< 10.	< 10.
PCB - Aroclor 1260	10.	ug/kg	< 10.	< 10.	< 10.	< 10.
Percent Solids	--	%	81.5	82.3	72.4	79.2

Notes:

Dilution Factor:

Dilution factor indicates the adjustments made for sample dilution.

EPA 8081:

Extraction by EPA METHOD 3550 (sonication). "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW-846, Third Edition including pdate 2.

ANALYTICAL RESULTS
Organochlorine Pesticides and/or PCB's

GTEL Client ID: FWH03FWH03
Login Number: W6090371
Project ID (number): FWH03FWH03
Project ID (name): HAFB/DO WAD/HOLLOMAN/NM

Method: EPA 8081
Matrix: Solids

GTEL Sample Number		W6090371-05	W6090371-06	W6090371-07	--
Client ID		SWMU3 SP09	SWMU3 SP10	SWMU3 SP11	--
Date Sampled		09/20/96	09/20/96	09/20/96	--
Date Prepared		09/26/96	09/26/96	09/26/96	
Date Analyzed		10/01/96	10/01/96	10/01/96	--
Dilution Factor		1.00	1.00	1.00	--
Analyte	Reporting Limit / Units	Concentration:Dry Weight			
PCB - Aroclor 1221	10. ug/kg	< 10.	< 10.	< 10.	--
PCB - Aroclor 1232	10. ug/kg	< 10.	< 10.	< 10.	--
PCB - Aroclor 1242 (1016)	10. ug/kg	< 10.	< 10.	< 10.	--
PCB - Aroclor 1248	10. ug/kg	< 10.	< 10.	< 10.	--
PCB - Aroclor 1254	10. ug/kg	< 10.	< 10.	< 10.	--
PCB - Aroclor 1260	10. ug/kg	< 10.	< 10.	< 10.	--
Percent Solids	-- %	83.1	80.1	79.2	--

Notes:

Dilution Factor:

Dilution factor indicates the adjustments made for sample dilution.

EPA 8081:

Extraction by EPA METHOD 3550 (sonication). "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW-846, Third Edition including Update 2.

GTEL Client ID: FWH03FWH03

QUALITY CONTROL RESULTS

Login Number: W6090371

Organochlorine Pesticides and/or PCB

oject ID (number): FWH03FWH03

Method: EPA 8081

oject ID (name): HAFB/DO WAD/HOLLOMAN/NM

Matrix: Solids

Conformance/Non-Conformance Summary

(X = Requirements Met * = See Comments -- = Not Required NA = Not Applicable)

Conformance Item	Volatile Organics	Semi-Volatile Organics	Inorganics (MT, WC)
GC/MS Tune	--	--	NA
Initial Calibration	--	--	--
Continuing Calibration	--	--	--
Surrogate Recovery	--	X	NA
Holding Time	--	X	--
Method Accuracy	--	X	--
Method Precision	--	X	--
Blank Contamination	--	X	--

Comments:

GTEL Client ID: FWH03FWH03
Login Number: W6090371
Project ID (number): FWH03FWH03
Project ID (name): HAFB/DO WAD/HOLLOMAN/NM

QUALITY CONTROL RESULTS

Organochlorine Pesticides and/or PCB
Method: EPA 8081
Matrix: So

Surrogate Results

QC Batch No.	Reference	Sample ID	TCMX	DCBP
Method: EPA 8081		Acceptability Limits:	37.7-126%	35.6-155%
092696PCBS-1	BS092696PCB	Method Blank Soil	71.7	85.6
092696PCBS-2	LS092696PCB	Laboratory control	62.0	76.8
092696PCBS-4	MS09035201	Matrix Spike	63.0	71.6
092696PCBS-5	MD09035201	Matrix Spike Dupli	63.6	69.7
--	09037101	SWMU3 SP05	62.8	76.0
--	09037102	SWMU3 SP06	74.2	82.2
--	09037103	SWMU3 SP07	74.5	86.3
--	09037104	SWMU3 SP08	70.3	75.8
--	09037105	SWMU3 SP09	64.4	75.4
--	09037106	SWMU3 SP10	65.5	78.0
--	09037107	SWMU3 SP11	70.0	78.1

Notes:

*: Indicates values outside of acceptability limits. See Nonconformance Summary.

Per EPA method 8080, data is acceptable as long as at least one surrogate has a recovery within acceptability limits.

Acceptability limits are derived from statistical analysis of laboratory samples.

GTEL Client ID: FWH03FWH03
Login Number: W6090371
Project ID (number): FWH03FWH03
oject ID (name): HAFB/DO WAD/HOLLOMAN/NM

QUALITY CONTROL RESULTS

Organochlorine Pesticides and/or PCB
Method: EPA 8081
Matrix: Solids

Method Blank Results

QC Batch No: 092696PCBS-1
Date Analyzed: 30-SEP-96

Analyte	Method:EPA 8081	Concentration: ug/kg
PCB - Aroclor 1221	< 10.0	
PCB - Aroclor 1232	< 10.0	
PCB - Aroclor 1242 (1016)	< 10.0	
PCB - Aroclor 1248	< 10.0	
PCB - Aroclor 1254	< 10.0	
PCB - Aroclor 1260	< 10.0	

Notes:

GTEL Client ID: FWH03FWH03
Login Number: W6090371
Project ID (number): FWH03FWH03
Project ID (name): HAFB/DO WAD/HOLLOMAN/NM

QUALITY CONTROL RESULTS

Organochlorine Pesticides and/or PCB
Method: EPA 8081
Matrix: Solids

Laboratory Control Sample Summary

Analyte	Spike Amount	Check Sample Concentration	QC Percent Recovery	Acceptability Limits Recovery
EPA 8081 Units:ug/kg	QC Batch:092696PCBS-2			
PCB - Aroclor 1260	83.3	70.6	84.8	10-127%

Notes:
Acceptability limits are derived from EPA Method 8080 criteria.

GTEL Client ID: FWH03FWH03

QUALITY CONTROL RESULTS

Login Number: W6090371

Organochlorine Pesticides and/or PCB

Project ID (number): FWH03FWH03

Method: EPA 8081

Project ID (name): HAFB/DO WAD/HOLLOMAN/NM

Matrix: Solids

Matrix Spike(MS) and Matrix Spike Duplicate(MSD) Results

GTEL Sample ID:W6090352-01 MS ID:MS09035201 MSD ID:MD09035201

Analysis Date: 30-SEP-96 01-OCT-96 01-OCT-96

Units: ug/kg	Sample	Spikes Added		MS	MS	MSD	MSD		Acceptability Limits	
Analyte	Conc.	MS	MSD	Conc.	% Rec.	Conc.	% Rec.	RPD	RPD	%Rec.
PCB - Aroclor 1260	< 10.0(0.000)	82.3	82.6	68.2	82.9	68.0	82.3	0.700	30	10-127

Notes:

Values in parentheses in the sample concentration column are used for % recovery calculations.

Acceptability limits are derived from EPA Method 8080 criteria.

ANALYTICAL RESULTS
Volatile Organics

GTEL Client ID: FWH03FWH03
Login Number: W6090371
Project ID (number): FWH03FWH03
Project ID (name): HAFB/DO WAD/HOLLOMAN/NM

Method: EPA 8021A
Matrix: Solids

GTEL Sample Number	W6090371-01	W6090371-02	W6090371-03	W6090371-04
Client ID	SWMU3 SP05	SWMU3 SP06	SWMU3 SP07	SWMU3 SP08
Date Sampled	09/20/96	09/20/96	09/20/96	09/20/96
Date Analyzed	09/26/96	09/26/96	09/26/96	09/26/96
Dilution Factor	1.00	1.00	1.00	1.00

Analyte	Reporting Limit	Units	Concentration:Wet Weight			
Benzene	0.05	mg/kg	< 0.05	< 0.05	0.17	< 0.05
Toluene	0.10	mg/kg	< 0.10	0.10	0.60	0.11
Ethylbenzene	0.10	mg/kg	< 0.10	< 0.10	2.8	< 0.10
Xylenes (total)	0.20	mg/kg	3.9	6.8	9.2	3.4
Percent Solids	--	%	81.5	82.3	72.4	79.2

Notes:

Dilution Factor:

Dilution factor indicates the adjustments made for sample dilution.

EPA 8021A:

EPA 8021A: "Test Methods for Evaluating Solid Waste, Physical and Chemical Methods", SW-846, Third Edition, Revision 1, US EPA September 1994.

W6090371-01:

1 out of 2 surrogates was outside control limits due to matrix effects.

W6090371-02:

1 out of 2 surrogates was outside control limits due to matrix effects.

W6090371-03:

1 out of 2 surrogates was outside control limits due to matrix effects.

W6090371-04:

1 out of 2 surrogates was outside control limits due to matrix effects.

ANALYTICAL RESULTS
Volatile Organics

GTEL Client ID: FWH03FWH03
gin Number: W6090371
roject ID (number): FWH03FWH03
Project ID (name): HAFB/DO WAD/HOLLOMAN/NM

Method: EPA 8021A
Matrix: Solids

GTEL Sample Number	W6090371-05	W6090371-06	W6090371-07	--
Client ID	SWMU3 SP09	SWMU3 SP10	SWMU3 SP11	--
Date Sampled	09/20/96	09/20/96	09/20/96	--
Date Analyzed	09/26/96	09/26/96	09/28/96	--
Dilution Factor	1.00	1.00	1.00	--

Analyte	Reporting Limit	Units	Concentration:Wet Weight			
Benzene	0.05	mg/kg	0.069	< 0.05	< 0.05	--
Toluene	0.10	mg/kg	0.19	0.16	< 0.10	--
Ethylbenzene	0.10	mg/kg	0.95	< 0.10	< 0.10	--
Xylenes (total)	0.20	mg/kg	2.6	3.2	2.0	--
Percent Solids	--	%	83.1	80.1	79.2	--

Notes:

Dilution Factor:

Dilution factor indicates the adjustments made for sample dilution.

EPA 8021A:

EPA 8021A: "Test Methods for Evaluating Solid Waste, Physical and Chemical Methods", SW-846, Third Edition, Revision 1, US EPA September 1994.

W6090371-05:

1 out of 2 surrogates was outside control limits due to matrix effects.

W6090371-06:

out of 2 surrogates was outside control limits due to matrix effects.

W6090371-07:

1 out of 2 surrogates was outside control limits due to matrix effects.

GTEL Client ID: FWH03FWH03
Login Number: W6090371
Project ID (number): FWH03FWH03
Project ID (name): HAFB/DO WAD/HOLLOMAN/NM

QUALITY CONTROL RESULTS

Volatile Organics
Method: EPA 8021A
Matrix: So

Conformance/Non-Conformance Summary

(X = Requirements Met * = See Comments -- = Not Required NA = Not Applicable)

Conformance Item	Volatile Organics	Semi-Volatile Organics	Inorganics (MT, WC)
GC/MS Tune	--	--	NA
Initial Calibration	--	--	--
Continuing Calibration	X	--	--
Surrogate Recovery	*	--	NA
Holding Time	X	--	--
Method Accuracy	X	--	--
Method Precision	X	--	--
Blank Contamination	X	--	--

Comments:

GTEL Client ID: FWH03FWH03 QUALITY CONTROL RESULTS
Login Number: W6090371 Volatile Organics
oject ID (number): FWH03FWH03 Method: EPA 8021A
oject ID (name): HAFB/DO WAD/HOLLOMAN/NM Matrix: Solids

Surrogate Results

QC Batch No.	Reference	Sample ID	TFT	BFB
Method: EPA 8021A		Acceptability Limits:	70-130%	70-130%
092696GC17-1	CV0926962017	Calibration Verifi	97.9	98.3
092696GC17-3	BS09269617	Method Blank Soil	91.3	98.2
092696GC17-4	LS09269617	Laboratory control	103.	109.
092696GC17-5	LSD09269617	LCS Soil Duplicate	101.	108.
092696GC17-6	MS09037101	Matrix Spike	102.	206.*
092696GC17-7	MD09037101	Matrix Spike Dupli	102.	210.*
--	09037101	SWMU3 SP05	113.	243.*
--	09037102	SWMU3 SP06	103.	264.*
--	09037103	SWMU3 SP07	103.	326.*
--	09037104	SWMU3 SP08	104.	220.*
--	09037105	SWMU3 SP09	100.	171.*
--	09037106	SWMU3 SP10	104.	210.*
--	09037107	SWMU3 SP11	99.9	180.*

Notes:
*: Indicates values outside of acceptability limits. See Nonconformance Summary.

GTEL Client ID: FWH03FWH03
Login Number: W6090371
Project ID (number): FWH03FWH03
Project ID (name): HAFB/DO WAD/HOLLOMAN/NM

QUALITY CONTROL RESULTS

Volatile Organics
Method: EPA 8021A
Matrix: Sol

Method Blank Results

QC Batch No: 092696GC17-3
Date Analyzed: 26-SEP-96

Analyte	Method:EPA 8021A	Concentration: mg/kg
Benzene	< 0.0500	
Toluene	< 0.100	
Ethylbenzene	< 0.100	
Xylenes (Total)	< 0.200	

Notes:

GTEL Client ID: FWH03FWH03
Login Number: W6090371
Project ID (number): FWH03FWH03
Project ID (name): HAFB/DO WAD/HOLLOMAN/NM

QUALITY CONTROL RESULTS

Volatile Organics
Method: EPA 8021A
Matrix: Solids

Calibration Verification Sample Summary

Analyte	Spike Amount	Check Sample Concentration	QC Percent Recovery	Acceptability Limits Recovery
EPA 8021A Units:ug/L	QC Batch:092696GC17-1			
Benzene	20.0	19.8	99.0	85-115%
Toluene	20.0	20.3	102.	85-115%
Ethylbenzene	20.0	20.5	103.	85-115%
Xylenes (Total)	60.0	59.0	98.3	85-115%

Notes:

GTEL Client ID: FWH03FWH03
Login Number: W6090371
Project ID (number): FWH03FWH03
Project ID (name): HAFB/DO WAD/HOLLOMAN/NM

QUALITY CONTROL RESULTS

Volatile Organics
Method: EPA 80
Matrix: So

Matrix Spike(MS) and Matrix Spike Duplicate(MSD) Results

GTEL Sample ID:W6090371-01 MS ID:MS09037101 MSD ID:MD09037101
Analysis Date: 26-SEP-96 26-SEP-96 26-SEP-96

Units: mg/kg	Sample	Spikes Added		MS	MS	MSD	MSD		Acceptability Limits	
Analyte	Conc.	MS	MSD	Conc.	% Rec.	Conc.	% Rec.	RPD	RPD	%Rec.
Benzene	< 0.05(0.000)	4.85	4.95	4.51	93.0	4.58	92.5	0.500	28.3	80-120
Toluene	< 0.10(0.0390)	4.85	4.95	4.43	90.5	4.49	89.9	0.700	30	80-120
Ethylbenzene	< 0.10(0.000)	4.85	4.95	4.88	101.	4.95	100.	1.00	30	80-120
Xylenes (Total)	3.9 (3.85)	14.6	14.9	16.5	86.6	16.7	86.2	0.500	30	80-120

Notes:
Values in parentheses in the sample concentration column are used for % recovery calculations.

GTEL Client ID: FWH03FWH03
Login Number: W6090371
Project ID (number): FWH03FWH03
oject ID (name): HAFB/DO WAD/HOLLOMAN/NM

QUALITY CONTROL RESULTS

Volatile Organics
Method: EPA 8021A
Matrix: Solids

Laboratory Control Sample (LCS) and Laboratory Control Duplicate Results

Analyte	Spike Amount	LCS Concentration	LCS Recovery, %	LCS Duplicate Concentration	LCS Duplicate Recovery, %	RPD, %	Acceptability Limits RPD, %	Acceptability Limits Recovery, %
EPA 8021A Units: ug/L	QC Batch:092696GC17-5							
Benzene	5.00	4.69	93.8	4.88	97.6	3.97	28.3	80-120%
Toluene	5.00	4.61	92.2	4.78	95.6	3.62	30	80-120%
Ethylbenzene	5.00	4.53	90.6	4.72	94.4	4.11	30	80-120%
Xylenes (Total)	15.0	13.1	87.3	13.5	90.0	3.05	30	80-120%

Notes:

GTEL Client ID: FWH03FWH03
Login Number: W6090371
Project ID (number): FWH03FWH03
Project ID (name): HAFB/DO WAD/HOLLOMAN/NM

QUALITY CONTROL RESULTS

Volatile Organics
Method: EPA 80
Matrix: Aqu

Conformance/Non-Conformance Summary

(X = Requirements Met * = See Comments -- = Not Required NA = Not Applicable)

Conformance Item	Volatile Organics	Semi-Volatile Organics	Inorganics (MT, WC)
GC/MS Tune	--	--	NA
Initial Calibration	--	--	--
Continuing Calibration	X	--	--
Surrogate Recovery	X	--	NA
Holding Time	--	--	--
Method Accuracy	X	--	--
Method Precision	X	--	--
Blank Contamination	X	--	--

Comments:

GTEL Client ID: FWH03FWH03 QUALITY CONTROL RESULTS
Login Number: W6090371 Volatile Organics
Project ID (number): FWH03FWH03 Method: EPA 8021A
Project ID (name): HAFB/DO WAD/HOLLOMAN/NM Matrix: Aqueous

Surrogate Results

QC Batch No.	Reference	Sample ID	TFT	BFB
Method: EPA 8021A		Acceptability Limits:	80-120%	80-120%
092796GC17-1	CV0927962017	Calibration Verifi	91.3	90.9
092796GC17-3	BW09279617	Method Blank Water	90.5	88.6
092796GC17-4	LW09279617	Laboratory Control	98.2	98.9
092796GC17-5	LWD09279617	LCS Water Duplicat	93.1	93.6
092796GC17-6	MS09037605	Matrix Spike	97.1	99.9
092796GC17-8	DP09039507	Duplicate	107.	99.9
--	09037108	TB-13	94.7	92.6

Notes:
*: Indicates values outside of acceptability limits. See Nonconformance Summary.

GTEL Client ID: FWH03FWH03
Login Number: W6090371
Project ID (number): FWH03FWH03
Project ID (name): HAFB/DO WAD/HOLLOMAN/NM

QUALITY CONTROL RESULTS

Volatile Organics
Method: EPA 8021A
Matrix: Aqu

Method Blank Results

QC Batch No: 092796GC17-3
Date Analyzed: 27-SEP-96

Analyte	Method:EPA 8021A	Concentration: ug/L
Benzene	< 0.500	
Toluene	< 1.00	
Ethylbenzene	< 1.00	
Xylenes (Total)	< 2.00	

Notes:

GTEL Client ID: FWH03FWH03
Login Number: W6090371
Project ID (number): FWH03FWH03
oject ID (name): HAFB/DO WAD/HOLLOMAN/NM

QUALITY CONTROL RESULTS

Volatile Organics
Method: EPA 8021A
Matrix: Aqueous

Calibration Verification Sample Summary

Analyte		Spike Amount	Check Sample Concentration	QC Percent Recovery	Acceptability Limits Recovery
EPA 8021A	Units:ug/L	QC Batch:092796GC17-1			
Benzene		20.0	18.0	90.0	85-115%
Toluene		20.0	18.4	92.0	85-115%
Ethylbenzene		20.0	18.6	93.0	85-115%
Xylenes (Total)		60.0	53.4	89.0	85-115%

Notes:

GTEL Client ID: FWH03FWH03
Login Number: W6090371
Project ID (number): FWH03FWH03
Project ID (name): HAFB/DO WAD/HOLLOMAN/NM

QUALITY CONTROL RESULTS

Volatile Organics
Method: EPA 8021A
Matrix: Aque

Duplicate Sample Results

Analyte	Original Concentration	Duplicate Concentration	RPD, %	Acceptability Limits, %
EPA 8021A Units: ug/L	QC Batch: 092796GC17-8	GTEL Sample ID: W6090395-07		Client ID: Batch QC
Benzene	380.	380.	NA	23.9
Toluene	283.	285.	0.704	27.2
Ethylbenzene	598.	601.	0.500	21.6
Xylenes (Total)	7050	7090	0.566	22.0
TPH as Gasoline	39900	40200	0.749	20

Notes:
NA - The concentration of the analyte is less than the reporting limit.

GTEL Client ID: FWH03FWH03
Login Number: W6090371
oject ID (number): FWH03FWH03
oject ID (name): HAFB/DO WAD/HOLLOMAN/NM

QUALITY CONTROL RESULTS

Volatile Organics
Method: EPA 8021A
Matrix: Aqueous

Matrix Spike(MS) Results

GTEL Sample ID:W6090376-05
Analysis Date: 27-SEP-96

MS ID:MS09037605
27-SEP-96

Units: ug/L Analyte	Sample Conc.	Spike Added	MS Conc.	MS % Rec.	Acceptability Limits %Rec.
Benzene	< 0.5 (0.160)	20.0	19.2	95.2	67-110
Toluene	< 1.0 (0.000)	20.0	19.7	98.5	68-115
Ethylbenzene	< 1.0 (0.150)	20.0	20.2	100.	65-120
Xylenes (Total)	< 2.0 (0.170)	60.0	58.0	96.4	62-119

Notes:
Values in parentheses in the sample concentration column are used for % recovery calculations.

GTEL Client ID: FWH03FWH03
Login Number: W6090371
Project ID (number): FWH03FWH03
Project ID (name): HAFB/DO WAD/HOLLOMAN/NM

QUALITY CONTROL RESULTS

Volatile Organics
Method: EPA 8021A
Matrix: Aqu

Laboratory Control Sample (LCS) and Laboratory Control Duplicate Results

Analyte	Spike Amount	LCS Concentration	LCS Recovery, %	LCS Duplicate Concentration	LCS Duplicate Recovery, %	RPD, %	Acceptability Limits RPD, %	Acceptability Limits Recovery, %
EPA 8021A Units: ug/L		QC Batch:092796GC17-5						
Benzene	20.0	19.2	96.0	19.2	96.0	0.00	20	80-120%
Toluene	20.0	19.7	98.5	19.8	99.0	0.506	20	80-120%
Ethylbenzene	20.0	20.1	101.	19.9	99.5	1.50	20	80-120%
Xylenes (Total)	60.0	57.7	96.2	57.3	95.5	0.730	20	80-120%

Notes:

ANALYTICAL RESULTS
Total Petroleum Hydrocarbons

GTEL Client ID: FWH03FWH03
Login Number: W6090371
ɔject ID (number): FWH03FWH03
ɔject ID (name): HAFB/DO WAD/HOLLOMAN/NM

Method: EPA 418.1
Matrix: Solids

GTEL Sample Number	W6090371-01	W6090371-02	W6090371-03	W6090371-04
Client ID	SWMU3 SP05	SWMU3 SP06	SWMU3 SP07	SWMU3 SP08
Date Sampled	09/20/96	09/20/96	09/20/96	09/20/96
Date Prepared	09/26/96	09/26/96	09/26/96	09/26/96
Date Analyzed	09/27/96	09/27/96	09/27/96	09/27/96
Dilution Factor	10.0	10.0	10.0	10.0

Analyte	Reporting Limit	Units	Concentration:Dry Weight			
Total Petroleum Hydrocarbons	20.	mg/kg	4500	8900	7900	4500
Percent Solids	--	%	81.5	82.3	72.4	79.2

Notes:

Dilution Factor:

Dilution factor indicates the adjustments made for sample dilution.

EPA 418.1:

Extraction is modified for soils by using EPA Method 9071 (soxhlet extraction). "Methods for Chemical Analysis of Water and Wastes", EPA 600/4-79-020, USEPA EMSL, Cincinnati, OH, Revised, March 1983.

ANALYTICAL RESULTS
Total Petroleum Hydrocarbons

GTEL Client ID: FWH03FWH03
Login Number: W6090371
Project ID (number): FWH03FWH03
Project ID (name): HAFB/DO WAD/HOLLOMAN/NM

Method: EPA 418.1
Matrix: Solids

GTEL Sample Number	W6090371-05	W6090371-06	W6090371-07	--
Client ID	SWMU3 SP09	SWMU3 SP10	SWMU3 SP11	--
Date Sampled	09/20/96	09/20/96	09/20/96	--
Date Prepared	09/26/96	09/26/96	09/26/96	
Date Analyzed	09/27/96	09/27/96	09/27/96	--
Dilution Factor	1.00	10.0	1.00	--

Analyte	Reporting Limit	Units	Concentration:Dry Weight			
Total Petroleum Hydrocarbons	20.	mg/kg	2000	4700	3900	--
Percent Solids	--	%	83.1	80.1	79.2	--

Notes:

Dilution Factor:

Dilution factor indicates the adjustments made for sample dilution.

EPA 418.1:

Extraction is modified for soils by using EPA Method 9071 (soxhlet extraction). "Methods for Chemical Analysis of Water and Wastes", EPA 600/4-79-020, USEPA EMSL, Cincinnati, OH, Revised, March 1983.

GTEL Client ID: FWH03FWH03
Login Number: W6090371
Project ID (number): FWH03FWH03
Project ID (name): HAFB/DO WAD/HOLLOMAN/NM

QUALITY CONTROL RESULTS

Total Petroleum Hydrocarbons
Method: EPA 418.1
Matrix: Solids

Conformance/Non-Conformance Summary

(X = Requirements Met * = See Comments -- = Not Required NA = Not Applicable)

Conformance Item	Volatile Organics	Semi-Volatile Organics	Inorganics (MT, WC)
GC/MS Tune	--	--	NA
Initial Calibration	--	--	--
Continuing Calibration	--	X	--
Surrogate Recovery	--	--	NA
Holding Time	--	X	--
Method Accuracy	--	*	--
Method Precision	--	*	--
Blank Contamination	--	X	--

Comments:

The accuracy limits are for a fuel oil #2 spike when the calibration is based on the standard reference oil.

*Method accuracy and precision are outside of control limits due to high sample concentration. The blank spike recovery is within acceptability limits, therefore demonstrating method accuracy.

GTEL Client ID: FWH03FWH03
Login Number: W6090371
Project ID (number): FWH03FWH03
Project ID (name): HAFB/DO WAD/HOLLOMAN/NM

QUALITY CONTROL RESULTS

Total Petroleum Hydrocarbons
Method: EPA 418.1
Matrix: So

Method Blank Results

QC Batch No: 092696IRSX-1
Date Analyzed: 27-SEP-96

Analyte	Method:EPA 418.1	Concentration: mg/kg
Total Petroleum Hydrocarbons	< 20.0	

Notes:

GTEL Client ID: FWH03FWH03
Login Number: W6090371
Project ID (number): FWH03FWH03
Project ID (name): HAFB/DO WAD/HOLLOMAN/NM

QUALITY CONTROL RESULTS

Total Petroleum Hydrocarbons
Method: EPA 418.1
Matrix: Solids

Calibration Verification Sample Summary

Analyte	Spike Amount	Check Sample Concentration	QC Percent Recovery	Acceptability Limits Recovery
EPA 418.1 Units:mg/L	QC Batch:092696IRSX-6			
Total Petroleum Hydrocarbons	5.00	4.80	96.0	90-110%

Notes:

GTEL Client ID: FWH03FWH03
Login Number: W6090371
Project ID (number): FWH03FWH03
Project ID (name): HAFB/DO WAD/HOLLOMAN/NM

QUALITY CONTROL RESULTS

Total Petroleum Hydrocarbons
Method: EPA 418.1
Matrix: So

Laboratory Control Sample Summary

Analyte	Spike Amount	Check Sample Concentration	QC Percent Recovery	Acceptability Limits Recovery
EPA 418.1 Units:mg/kg	QC Batch:092696IRSX-2			
Total Petroleum Hydrocarbons	150.	185.	123.	40-140%

Notes:
The accuracy limits are for a fuel oil #2 spike when the calibration is based on the standard reference oil.

GTEL Client ID: FWH03FWH03
Login Number: W6090371
Project ID (number): FWH03FWH03
Project ID (name): HAFB/DO WAD/HOLLOMAN/NM

QUALITY CONTROL RESULTS

Total Petroleum Hydrocarbons
Method: EPA 418.1
Matrix: Solids

Matrix Spike(MS) and Matrix Spike Duplicate(MSD) Results

GTEL Sample ID:W6090371-01 MS ID:MS09037101 MSD ID:MD09037101
Analysis Date: 27-SEP-96 27-SEP-96 27-SEP-96

Units: mg/kg	Sample	Spikes Added		MS	MS	MSD	MSD		Acceptability Limits	
Analyte	Conc.	MS	MSD	Conc.	% Rec.	Conc.	% Rec.	RPD	RPD	%Rec.
Total Petroleum Hydrocarbons	4000 (4040)	150.	150.	5970	1290*	5020	653.*	65.6*	50	42-141

Notes:

Values in parentheses in the sample concentration column are used for % recovery calculations.

The spike recovery data may not be representative of the accuracy of the method or demonstrate true matrix interferences due to the ratio of background to spike amount.

The accuracy limits are for a fuel oil #2 spike when the calibration is based on the standard reference oil.

092696IRSX-4: Sample spike recovery is outside of acceptability limits due to high sample concentration. Blank spike recovery is within acceptability limits, therefore demonstrating method accuracy.

092696IRSX-5: Sample spike recovery is outside of acceptability limits due to high sample concentration. Blank spike recovery is within acceptability limits, therefore demonstrating method accuracy.

092696IRSX-5: :Sample duplicate RPD is outside of acceptability limits due to high sample concentration.

ANALYTICAL RESULTS
Volatile Organics

GTEL Client ID: FWH03FWH03
Login Number: W6090371
Project ID (number): FWH03FWH03
Project ID (name): HAFB/DO WAD/HOLLOMAN/NM

Method: EPA 1311/8240
Matrix: Solids

GTEL Sample Number			W6090371-01	W6090371-02	W6090371-03	W6090371-04
Client ID			SWMU3 SP05	SWMU3 SP06	SWMU3 SP07	SWMU3 SP08
Date Sampled			09/20/96	09/20/96	09/20/96	09/20/96
Date Prepared			09/25/96	09/25/96	09/25/96	09/25/96
Date Analyzed			09/26/96	09/26/96	09/26/96	09/26/96
Dilution Factor			1.00	1.00	1.00	1.00
Analyte	Reporting Limit	Units				
Benzene	0.05	mg/L	< 0.05	< 0.05	< 0.05	< 0.05
Carbon tetrachloride	0.05	mg/L	< 0.05	< 0.05	< 0.05	< 0.05
Chlorobenzene	0.05	mg/L	< 0.05	< 0.05	< 0.05	< 0.05
Chloroform	0.05	mg/L	< 0.05	< 0.05	< 0.05	< 0.05
1,2-Dichloroethane	0.05	mg/L	< 0.05	< 0.05	< 0.05	< 0.05
1,1-Dichloroethene	0.05	mg/L	< 0.05	< 0.05	< 0.05	< 0.05
2-Butanone	0.2	mg/L	< 0.2	< 0.2	< 0.2	< 0.2
Tetrachloroethene	0.05	mg/L	< 0.05	< 0.05	< 0.05	< 0.05
Trichloroethene	0.05	mg/L	< 0.05	< 0.05	< 0.05	< 0.05
Vinyl chloride	0.1	mg/L	< 0.1	< 0.1	< 0.1	< 0.1

Notes:

Dilution Factor:

Dilution factor indicates the adjustments made for sample dilution.

EPA 1311/8240:

"Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW-846, Third Edition including Update 2. TCLP is performed as per 40 CFR, Part 261, Appendix II - EPA Method 1311.

ANALYTICAL RESULTS
Volatile Organics

GTEL Client ID: FWH03FWH03
Login Number: W6090371
Project ID (number): FWH03FWH03
Project ID (name): HAFB/DO WAD/HOLLOMAN/NM

Method: EPA 1311/8240
Matrix: Solids

GTEL Sample Number		W6090371-05	W6090371-06	W6090371-07	--
Client ID		SWMU3 SP09	SWMU3 SP10	SWMU3 SP11	--
Date Sampled		09/20/96	09/20/96	09/20/96	--
Date Prepared		09/25/96	09/25/96	09/25/96	
Date Analyzed		09/26/96	09/26/96	09/26/96	--
Dilution Factor		1.00	1.00	1.00	--
Analyte	Reporting Limit / Units				
Benzene	0.05 mg/L	< 0.05	< 0.05	< 0.05	--
Carbon tetrachloride	0.05 mg/L	< 0.05	< 0.05	< 0.05	--
Chlorobenzene	0.05 mg/L	< 0.05	< 0.05	< 0.05	--
Chloroform	0.05 mg/L	< 0.05	< 0.05	< 0.05	--
1,2-Dichloroethane	0.05 mg/L	< 0.05	< 0.05	< 0.05	--
1,1-Dichloroethene	0.05 mg/L	< 0.05	< 0.05	< 0.05	--
2-Butanone	0.2 mg/L	< 0.2	< 0.2	< 0.2	--
Tetrachloroethene	0.05 mg/L	< 0.05	< 0.05	< 0.05	--
Trichloroethene	0.05 mg/L	< 0.05	< 0.05	< 0.05	--
Vinyl chloride	0.1 mg/L	< 0.1	< 0.1	< 0.1	--

Notes:

Dilution Factor:

Dilution factor indicates the adjustments made for sample dilution.

EPA 1311/8240:

"Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW-846, Third Edition including Update 2. TCLP is performed as per 40 CFR, Part 261, Appendix II - EPA Method 1311.

Project ID (Number): FWH03WH03
Project ID (Name): HAFB
DO WAD
HOLLOMAN, NM
Work Order Number: W6-09-0371
Date Reported: 09-30-96

QA NONCONFORMANCE SUMMARY

Volatile Organics in TCLP Leachate
EPA Method 8240 Modified

1.0 Sample Handling

1.1 Sample handling and holding time criteria were not met for 0 samples.

2.0 Surrogate Compound Recoveries

2.1 The recovery limits were exceeded for surrogate compounds in 0 samples as shown in Table 2.

3.0 Matrix Spike (MS) Accuracy

3.1 The recovery limits were exceeded in the matrix spike for 0 compounds as shown in Table 3.

4.0 Sample Duplicate Precision

4.1 The maximum percent difference (RPD) was exceeded for 0 compounds in the duplicate samples as shown in Table 3.

5.0 Method Blanks

5.1 Zero target compound(s) was/were found in the method blank as shown in Table 4.

Project ID (Number): FWH03WH03
Project ID (Name): HAFB
DO WAD
HOLLOMAN, NM
Work Order Number: W6-09-0371
Date Reported: 09-30-96

Table 2

SURROGATE RECOVERY SUMMARY

Volatile Organics in TCLP Leachate
EPA Method 8240 Modified

GTEL No.	Percent Recovery, %			
	S1 (TOL)	S2 (BFB)	S3 (DCE)	TOTAL OUT
TCLP092596F1	100	103	96.8	0
W6090371-01	102	101	96.5	0
W6090371-02	101	102	97.4	0
W6090371-03	102	98.6	96.8	0
W6090371-04	103	103	101	0
W6090371-05	102	102	101	0
W6090371-06	101	102	102	0
W6090371-07	102	104	103	0
MS09037107	102	99.2	111	0
MD09037107	102	100	110	0
LW092696AFN1	101	99.8	106	0
LWD092696FN1	101	101	106	0

	Surrogates		Amount Spiked, ug/L	Recovery Limits[a]
S1	TOL	Toluene-d8	50	88-110
S2	BFB	Bromofluorobenzene	50	86-115
S3	DCA	1,2-Dichloroethane-d4	50	76-114

* Indicates values outside of acceptability limits.
a Acceptability limits are derived from USEPA Contract Laboratory Program (CLP) guidelines.
D Diluted out. Percent Recovery is not calculated when surrogate compound(s) are diluted out.

Project ID (Number): FWH03WH03
Project ID (Name): HAFB
DO WAD
HOLLOMAN, NM
Work Order Number: W6-09-0371
Date Reported: 09-30-96

Table 3

MATRIX SPIKE (MS) AND MATRIX SPIKE DUPLICATE (MSD) SUMMARY
PERCENT RECOVERY AND RELATIVE PERCENT DIFFERENCE (RPD)
Volatile Organics in TCLP Extract
Modified EPA Method 8240

Sample Spiked: MS09037107 Client ID: SWMU3SP11

Analyte	Spike Added, ug/L	Sample Concentration, ug/L	MS Concentration, ug/L	MS Percent Recovery	Acceptability Limits, %[a]
Vinyl Chloride	50.0	<10	43.5	87.0	10-251[1]
1,1-Dichloroethene	50.0	<5	54.3	109	61-145[5]
Chloroform	50.0	<5	49.0	98.0	51-138[1]
1,2-Dichloroethane	50.0	<5	51.0	102	49-155[1]
2-Butanone	50.0	<20	50.4	101	28-180[3]
Carbon Tetrachloride	50.0	<5	47.2	94.4	70-140[1]
Trichloroethene	50.0	<5	49.6	99.2	71-120[5]
Benzene	50.0	<5	48.5	97.0	76-127[1]
Tetrachloroethene	50.0	<5	50.4	101	64-148[1]
Chlorobenzene	50.0	<5	52.0	104	18-190[1]

Analyte	Spike Added, ug/L	MSD Concentration, ug/L	MSD Percent Recovery	RPD, %	Acceptability Limits	
					RPD	% Recovery
Vinyl Chloride	50.0	42.5	85.0	2.3	65.0[3]	10-251[1]
1,1-Dichloroethene	50.0	59.7	119	8.8	14[5]	61-145[5]
Chloroform	50.0	48.5	97.0	1.0	18.2[3]	51-138[1]
1,2-Dichloroethane	50.0	51.4	103	1.0	20.6[3]	49-155[1]
2-Butanone	50.0	48.7	97.4	3.6	25.0[3]	20-180[3]
Carbon Tetrachloride	50.0	47.3	94.6	0.2	11.3[3]	70-140[1]
Trichloroethene	50.0	49.6	99.2	0.0	14[5]	71-120[5]
Benzene	50.0	48.6	97.2	0.2	11[5]	76-127[1]
Tetrachloroethene	50.0	50.6	101	0.0	15.6[3]	64-148[1]
Chlorobenzene	50.0	52.3	105	1.0	28.8[3]	18-190[1]

* Indicates values outside of acceptability limits.
1 Accuracy limits as published in the EPA methods. (lowest acceptable limit has been tightened to 10% recovery based on laboratory practice)
3 Limits based on laboratory practice i.e. provisional limits.
5 Acceptability limits are derived from USEPA Contract Laboratory Program (CLP) requirements.
RPD: 0 of 10 outside limits.
Spike Recovery: 0 of 20 outside limits.

Project ID (Number): FWH03WH03
Project ID (Name): HAFB
DO WAD
HOLLOMAN, NM
Work Order Number: W6-09-0371
Date Reported: 09-30-96

Table 4

METHOD BLANK RESULTS

Volatile Organics in TCLP Leachate[a]
EPA Method 8240 Modified

	File ID	TCLP092596F1
	Date Leached	09-25-96
	Extraction Fluid	#1
	Date Analyzed	09-26-96
Analyte	Quantitation Limit, mg/L	Concentration, mg/L
Benzene	0.050	<0.050
Carbon tetrachloride	0.050	<0.050
Chlorobenzene	0.050	<0.050
Chloroform	0.050	<0.050
1,2-Dichloroethane	0.050	<0.050
1,1-Dichloroethylene	0.050	<0.050
Methyl ethyl ketone	0.20	<0.20
Tetrachloroethylene	0.050	<0.050
Trichloroethylene	0.050	<0.050
Vinyl chloride	0.10	<0.10

a Test Methods for Evaluating Solid Waste, SW-846, Third Edition, Revision 0, US EPA, November 1986. This method is modified for megabore column use. TCLP is performed as per 40 CFR, Part 261, Appendix II-Method 1311. These data are presented in accordance with the Federal Register 57, p. 55114, November 24, 1992.

Project ID (Number): FWH03WH03
Project ID (Name): HAFB
DO WAD
HOLLOMAN, NM
Work Order Number: W6-09-0371
Date Reported: 09-30-96

Table 3

LABORATORY CONTROL SAMPLE AND LABORATORY CONTROL DUPLICATE
PERCENT RECOVERY AND RELATIVE PERCENT DIFFERENCE (RPD)
Volatile Organics in TCLP Extract
Modified EPA Method 8240

Sample Spiked: LCS

Analyte	Spike Added, ug/L	Sample Concentration, ug/L	MS Concentration, ug/L	MS Percent Recovery	Acceptability Limits, %[a]
Vinyl Chloride	50.0	<10	41.1	82.2	10-251[1]
1,1-Dichloroethene	50.0	<5	47.3	94.6	61-145[5]
Chloroform	50.0	<5	47.4	94.8	51-138[1]
1,2-Dichloroethane	50.0	<5	46.9	93.8	49-155[1]
2-Butanone	50.0	<20	51.5	103	28-180[3]
Carbon Tetrachloride	50.0	<5	46.5	93.0	70-140[1]
Trichloroethene	50.0	<5	47.3	94.6	71-120[5]
Benzene	50.0	<5	47.0	94.0	76-127[1]
Tetrachloroethene	50.0	<5	47.7	95.4	64-148[1]
Chlorobenzene	50.0	<5	49.3	98.6	18-190[1]

Analyte	Spike Added, ug/L	MSD Concentration, ug/L	MSD Percent Recovery	RPD, %	Acceptability Limits	
					RPD	% Recovery
Vinyl Chloride	50.0	41.4	82.8	0.7	65.0[3]	10-251[1]
1,1-Dichloroethene	50.0	46.2	92.4	2.4	14[5]	61-145[5]
Chloroform	50.0	45.7	91.4	3.7	18.2[3]	51-138[1]
1,2-Dichloroethane	50.0	45.2	90.4	3.7	20.6[3]	49-155[1]
2-Butanone	50.0	46.2	92.4	11	25.0[3]	20-180[3]
Carbon Tetrachloride	50.0	44.8	89.6	3.7	11.3[3]	70-140[1]
Trichloroethene	50.0	45.8	91.6	3.2	14[5]	71-120[5]
Benzene	50.0	46.1	92.2	1.9	11[5]	76-127[1]
Tetrachloroethene	50.0	46.6	93.2	2.3	15.6[3]	64-148[1]
Chlorobenzene	50.0	47.0	94.0	4.8	28.8[3]	18-190[1]

* Indicates values outside of acceptability limits.
1 Accuracy limits as published in the EPA methods. (lowest acceptable limit has been tightened to 10% recovery based on laboratory practice)
3 Limits based on laboratory practice i.e. provisional limits.
5 Acceptability limits are derived from USEPA Contract Laboratory Program (CLP) requirements.
RPD: 0 of 10 outside limits.
Spike Recovery: 0 of 20 outside limits.

APPENDIX B

SWMU 8

NEI/GTEL
ENVIRONMENTAL LABORATORIES, INC.

Midwest Region
4211 May Avenue
Wichita, KS 67209
(316) 945-2624
(800) 633-7936
(316) 945-0506 (FAX)

April 23, 1997

Dan Holmquist
Foster Wheeler Environmental Corporation
241 Arkansas St. /Behind Rv Storage
Holloman A F B, NM 88330

RE:	NEI/GTEL Client ID:	FWH03FWH03
	Login Number:	W7040160
	Project ID (number):	DOIIWAD3 POL PHASEII
	Project ID (name):	HAFB/DOII WAD3/HOLLOMAN/NM

Dear Dan Holmquist:

Enclosed please find the analytical results for the samples received by NEI/GTEL Environmental Laboratories, Inc. on 04/11/97 under Chain-of-Custody Number(s) 47579.

A formal Quality Assurance/Quality Control (QA/QC) program is maintained by NEI/GTEL, which is designed to meet or exceed the EPA requirements. Analytical work for this project met QA/QC criteria unless otherwise stated in the footnotes. This report is to be reproduced only in full.

NEI/GTEL is certified by the U.S. Army Corp of Engineers Laboratory Validation, expiration date March 18, 1997.

If you have any questions regarding this analysis, or if we can be of further assistance, please call our Customer Service Representative.

Sincerely,
NEI/GTEL Environmental Laboratories, Inc.

Customer Service Manager

Terry R. Loucks
Laboratory Director

RECEIVED APR 28 1997

Project ID (Number): DOIIWAD3 POL PHASEII
Project ID (Name): HAFB
DOII WAD3
Holloman, NM
Work Order Number: W7-04-0160
Date Reported: 04-23-97

ANALYTICAL RESULTS

Semivolatile Organics in TCLP Leachate[a]
EPA Method 8270B[b]

GTEL Sample Number		10			
Client Identification		SWMU08SP			
Date Sampled		04-09-97			
Date Leached		04-14-97			
Date Extracted		04-21-97			
Extraction Fluid		#1			
Date Analyzed		04-22-97			
Analyte	Reporting Limit, mg/L	Concentration, mg/L			
o-Cresol	0.033	<0.033			
m-Cresol + p-Cresol	0.033	<0.033			
1,4-Dichlorobenzene	0.033	<0.033			
2,4-Dinitrotoluene	0.033	<0.033			
Hexachloro-1,3-butadiene	0.033	<0.033			
Hexachlorobenzene	0.033	<0.033			
Hexachloroethane	0.033	<0.033			
Nitrobenzene	0.033	<0.033			
Pentachlorophenol	0.17	<0.17			
Pyridine	0.033	<0.033			
2,4,5-Trichlorophenol	0.033	<0.033			
2,4,6-Trichlorophenol	0.033	<0.033			
Reporting Limit Multiplier[c]		1			

a Test Methods for Evaluating Solid Waste, SW-846, Third Edition, Revision 0, US EPA, November 1986; extraction by EPA Method 3510 (liquid/liquid). TCLP performed as per 40 CFR, Part 261, Appendix II - Method 1311. These data are presented in accordance with the Federal Register, 57, p.55114, November 24, 1992.

b Test Methods for Evaluating Solid Waste, SW-846, Third Edition, Revision 2, US EPA, Jan 1995; extraction by EPA Method 3510 (liquid/liquid).

c The reporting limit multiplier indicates the adjustments made to the reporting limits for sample dilutions.

Project ID (Number): DOIIWAD3 POL PHASEII
Project ID (Name): HAFB
DOII WAD3
Holloman, NM
Work Order Number: W7-04-0160
Date Reported: 04-23-97

QA NONCONFORMANCE SUMMARY

Semivolatile Organics in TCLP Leachate
EPA Method 8270B[b]

1.0 Sample Handling

1.1 Sample handling and holding time criteria were not met for zero samples.

2.0 Surrogate Compound Recoveries

2.1 The recovery limits were exceeded for zero surrogate compounds as shown in Table 2.

3.0 Laboratory Control Spike (LCS) and Matrix Spike (MS) Accuracy

3.1 The recovery limits were exceeded in the matrix spike for zero compounds as shown in Table 3A and 3.5A.

4.0 Sample Duplicate Precision

4.1 The maximum percent difference (RPD) was exceeded for zero compounds in the duplicate samples as shown in Table 3B and 3.5B.

5.0 Method Blanks

5.1 Zero target compounds were found in the method blank as shown in Table 4.

Project ID (Number): DOIIWAD3 POL PHASEII
Project ID (Name): HAFB
DOII WAD3
Holloman, NM
Work Order Number: W7-04-0160
Date Reported: 04-23-97

Table 2

SURROGATE RECOVERY SUMMARY

Semivolatile Organics in TCLP Leachate
EPA Method 8270B[b]

GTEL No.	Percent Recovery, %						
	S1 (NBZ)	S2 (FBP)	S3 (TPH)	S4 (PHL)	S5 (2FP)	S6 (TBP)	TOT OUT
BT042197BNA	72.8	80.2	89.0	66.5	74.5	77.7	0
LT042197BNA	73.6	78.1	82.9	62.5	68.1	74.0	0
LTD042197BNA	73.7	79.9	84.6	62.2	68.3	79.5	0
W704016010	66.4	76.6	88.0	58.2	63.0	69.6	0
MS04016010	91.4	94.5	90.0	76.4	82.2	84.2	0
MD04016010	86.4	90.6	81.3	75.2	79.8	74.8	0

	Surrogates		Recovery Limits[a]
S1	NBZ	Nitrobenzene-d5	35-114
S2	FBP	2-Fluorobiphenyl	43-116
S3	TPH	Terphenyl-d14	33-141
S4	PHL	Phenol-d5	10- 94
S5	2FP	2-Fluorophenol	21-100
S6	TBP	2,4,6-Tribromophenol	10-123

D Surrogate diluted out.
* Indicates values outside of acceptability limits.
a Acceptability limits are derived from USEPA Contract Laboratory Program (CLP) guidelines.

Project ID (Number): DOIIWAD3 POL PHASEII
Project ID (Name): HAFB
DOII WAD3
Holloman, NM
Work Order Number: W7-04-0160
Date Reported: 04-23-97

Table 3A

LABORATORY CONTROL SPIKE (LCS) AND LABORATORY CONTROL SPIKE DUPLICATE (LCSD)
MATRIX SPIKE (MS) AND MATRIX SPIKE DUPLICATE (MSD) SUMMARY
PERCENT RECOVERY AND RELATIVE PERCENT DIFFERENCE (RPD)

Semivolatile Organics in TCLP Leachate
EPA Method 8270B[b]

Sample Spiked: LT0421997BNA Client ID: E.F. #1

Analyte	Spike Added, mg/L	Sample Concentration, mg/L	MS Concentration, mg/L	MS Percent Recovery	Acceptability Limits, %[a]
Pyridine	333	<33	180.0	54.0	10-150
1,4-Dichlorobenzene	333	<33	205.1	61.5	36-97
2-Methylphenol	333	<33	228.9	68.7	32-119
3,4-Methylphenol	667	<33	448.7	67.3	32-119
Hexachloroethane	333	<33	183.0	54.9	40-113
Nitrobenzene	333	<33	219.4	65.8	35-180
Hexachlorobutadiene	333	<33	208.6	62.6	24-116
2,4,6-Trichlorophenol	333	<33	230.8	69.3	37-144
2,4,5-Trichlorophenol	333	<33	242.8	72.9	37-144
2,4-Dinitrotoluene	333	<33	204.6	61.4	24-96
Hexachlorobenzene	333	<33	222.5	66.7	10-152
Pentachlorophenol	333	<167	230.8	69.3	10-103

Table 3B

Analyte	Spike Added, mg/L	MSD Concentration, mg/L	MSD Percent Recovery	RPD, %	Acceptability Limits[a]	
					RPD	% Recovery
Pyridine	333	182.4	54.7	1.3	50	10-150
1,4-Dichlorobenzene	333	214.8	64.4	4.6	27	36-97
2-Methylphenol	333	233.8	70.2	2.1	34	32-119
3,4-Methylphenol	667	462.7	69.4	3.1	34	32-119
Hexachloroethane	333	186.9	56.1	2.1	26	40-113
Nitrobenzene	333	217.0	65.1	1.1	39	35-180
Hexachlorobutadiene	333	222.4	66.7	6.4	38	24-116
2,4,6-Trichlorophenol	333	237.5	71.3	2.9	34	37-144
2,4,5-Trichlorophenol	333	253.7	76.1	4.4	34	37-144
2,4-Dinitrotoluene	333	223.8	67.1	9.0	47	24-96
Hexachlorobenzene	333	231.3	69.4	3.9	60	10-152
Pentachlorophenol	333	241.6	72.5	4.6	47	10-103

* Indicates values outside of acceptability limits.

a Acceptability limits are derived from USEPA requirements and laboratory practices.

RPD: 0 out of 12 outside limits.

Spike Recovery: 0 out of 24 outside limits.

Project ID (Number): DOIIWAD3 POL PHASEII
Project ID (Name): HAFB
DOII WAD3
Holloman, NM
Work Order Number: W7-04-0160
Date Reported: 04-23-97

Table 3.5

MATRIX SPIKE (MS) AND MATRIX SPIKE DUPLICATE (MSD) SUMMARY
PERCENT RECOVERY AND RELATIVE PERCENT DIFFERENCE (RPD)

Semivolatile Organics in TCLP Leachate
EPA Method 8270B[b]

Sample Spiked: W704016010 Client ID: SWNU08SP

Analyte	Spike Added, mg/L	Sample Concentration, mg/L	MS Concentration, mg/L	MS Percent Recovery	Acceptability Limits, %[a]
Pyridine	333	<33	235.8	70.8	10-150
1,4-Dichlorobenzene	333	<33	249.1	74.7	36-97
2-Methylphenol	333	<33	289.2	86.8	32-119
3,4-Methylphenol	667	<33	562.7	84.4	32-119
Hexachloroethane	333	<33	220.6	66.2	40-113
Nitrobenzene	333	<33	275.4	82.6	35-180
Hexachlorobutadiene	333	<33	254.2	76.3	24-116
2,4,6-Trichlorophenol	333	<33	284.9	85.5	37-144
2,4,5-Trichlorophenol	333	<33	301.0	90.3	37-144
2,4-Dinitrotoluene	333	<33	249.9	75.0	24-96
Hexachlorobenzene	333	<33	236.9	71.1	10-152
Pentachlorophenol	333	<167	251.8	75.6	10-103

Table 3.5B

Analyte	Spike Added, mg/L	MSD Concentration, mg/L	MSD Percent Recovery	RPD, %	Acceptability Limits[a]	
					RPD	% Recovery
Pyridine	333	221.7	66.5	6.2	50	10-150
1,4-Dichlorobenzene	333	284.5	85.3	13.3	27	36-97
2-Methylphenol	333	301.8	90.5	4.3	34	32-119
3,4-Methylphenol	667	611.5	91.7	8.3	34	32-119
Hexachloroethane	333	251.1	75.3	12.9	26	40-113
Nitrobenzene	333	278.3	83.5	1.1	39	35-180
Hexachlorobutadiene	333	290.9	87.3	13.5	38	24-116
2,4,6-Trichlorophenol	333	292.7	87.8	2.7	34	37-144
2,4,5-Trichlorophenol	333	309.0	92.7	2.6	34	37-144
2,4-Dinitrotoluene	333	222.1	66.6	11.8	47	24-96
Hexachlorobenzene	333	231.5	69.5	2.3	60	10-152
Pentachlorophenol	333	221.1	66.3	13.0	47	10-103

* Indicates values outside of acceptability limits.

a Acceptability limits are derived from USEPA requirements and laboratory practices.

RPD: **0** out of **12** outside limits.

Spike Recovery: **0** out of **24** outside limits.

Project ID (Number): DOIIWAD3 POL PHASEII
Project ID (Name): HAFB
DOII WAD3
Holloman, NM
Work Order Number: W7-04-0160
Date Reported: 04-23-97

Table 4

METHOD BLANK

Semivolatile Organics in TCLP Leachate[a]
EPA Method 8270B[b]

	GTEL File Number	BT042197BNA			
	Date Leached	04-14-97			
	Date Extracted	04-21-97			
	Extraction Fluid	#1			
	Date Analyzed	04-22-97			
Analyte	Quantitation Limit, mg/L	Concentration, mg/L			
o-Cresol	0.033	<0.033			
m-Cresol + p-Cresol	0.033	<0.033			
1,4-Dichlorobenzene	0.033	<0.033			
2,4-Dinitrotoluene	0.033	<0.033			
Hexachloro-1,3-butadiene	0.033	<0.033			
Hexachlorobenzene	0.033	<0.033			
Hexachloroethane	0.033	<0.033			
Nitrobenzene	0.033	<0.033			
Pentachlorophenol	0.17	<0.17			
Pyridine	0.033	<0.033			
2,4,5-Trichlorophenol	0.033	<0.033			
2,4,6-Trichlorophenol	0.033	<0.033			
Quantitation Limit Multiplier[c]		1			

a Test Methods for Evaluating Solid Waste, SW-846, Third Edition, Revision 0, US EPA, November 1986; extraction by EPA Method 3510 (liquid/liquid). TCLP performed as per 40 CFR, Part 261, Appendix II - Method 1311. These data are presented in accordance with the Federal Register, 57, p.55114, November 24, 1992.

b Test Methods for Evaluating Solid Waste, SW-846, Third Edition, Revision 2, US EPA, Jan 1995; extraction by EPA Method 3510 (liquid/liquid).

c The quantitation limit multiplier indicates the adjustments made to the reporting limits for sample dilutions.

ANALYTICAL RESULTS
Results For Multiple Methods

NEI/GTEL Client ID: FWH03FWH03
Login Number: W7040160
Project ID (number): DOIIWAD3 POL PHASEII
Project ID (name): HAFB/DOII WAD3/HOLLOMAN/NM

Method: See Below
Matrix: Solids

	NEI/GTEL Sample Number	W7040160-06	W7040160-07	W7040160-08	W7040160-09
	Client ID	SWMU08-01-06	SWMU08-02-06	SWMU08-03-06	SWMU08-04-06
	Date Sampled	04/09/97	04/09/97	04/09/97	04/09/97
EPA 6010A	Date Prepared	04/11/97	04/11/97	04/11/97	04/11/97
EPA 6010A	Date Analyzed	04/14/97	04/14/97	04/14/97	04/14/97
EPA 6010A	Dilution Factor	1.00	1.00	1.00	1.00
EPA 7471A	Date Prepared	04/11/97	04/11/97	04/11/97	04/11/97
EPA 7471A	Date Analyzed	04/12/97	04/12/97	04/12/97	04/12/97
EPA 7471A	Dilution Factor	0.100	0.100	0.100	0.100

Analyte		Reporting Limit	Units	Concentration:Dry Weight			
Inorganics (MT, WC)							
Aluminum	EPA 6010A	20.	mg/kg	**2200**	**1800**	**3600**	**3400**
Antimony	EPA 6010A	20.	mg/kg	< 20.	< 20.	< 20.	< 20.
Arsenic	EPA 6010A	40.	mg/kg	< 40.	< 40.	< 40.	< 40.
Barium	EPA 6010A	20.	mg/kg	**29.**	**20.**	**71.**	**62.**
Beryllium	EPA 6010A	0.50	mg/kg	< 0.50	< 0.50	< 0.50	< 0.50
Cadmium	EPA 6010A	2.0	mg/kg	< 2.0	< 2.0	< 2.0	< 2.0
Calcium	EPA 6010A	100	mg/kg	**160000**	**170000**	**110000**	**89000**
Chromium	EPA 6010A	3.0	mg/kg	< 3.0	< 3.0	**4.1**	**4.0**
Cobalt	EPA 6010A	5.0	mg/kg	< 5.0	< 5.0	< 5.0	< 5.0
Copper	EPA 6010A	2.5	mg/kg	< 2.5	< 2.5	**3.1**	**5.2**
Iron	EPA 6010A	10.	mg/kg	**2400**	**2100**	**3900**	**4200**
Mercury	EPA 7471A	0.25	mg/kg	< 0.25	< 0.25	< 0.25	< 0.25
Percent Solids	--		%	71.7	66.3	78.2	83.2

Notes:

Dilution Factor:

Dilution factor indicates the adjustments made for sample dilution.

EPA 6010A:

Digestion by EPA Method 3050A.

EPA 6010A, EPA 7471A:

"Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW-846, Third Edition including Update 2.

ANALYTICAL RESULTS
Results For Multiple Methods

NEI/GTEL Client ID: FWH03FWH03
Login Number: W7040160
Project ID (number): DOIIWAD3 POL PHASEII
Project ID (name): HAFB/DOII WAD3/HOLLOMAN/NM

Method: See Below
Matrix: Solids

	NEI/GTEL Sample Number	W7040160-06	W7040160-07	W7040160-08	W7040160-09
	Client ID	SWMU08-01-06	SWMU08-02-06	SWMU08-03-06	SWMU08-04-06
	Date Sampled	04/09/97	04/09/97	04/09/97	04/09/97
EPA 6010A	Date Prepared	04/11/97	04/11/97	04/11/97	04/11/97
EPA 6010A	Date Analyzed	04/14/97	04/14/97	04/14/97	04/14/97
EPA 6010A	Dilution Factor	1.00	1.00	1.00	1.00

Analyte		Reporting Limit	Units	Concentration:Dry Weight			
Inorganics (MT, WC)							
Lead	EPA 6010A	0.40	mg/kg	**5.4**	< 0.40	**4.6**	**4.6**
Magnesium	EPA 6010A	100	mg/kg	**1200**	**1400**	**2700**	**2500**
Manganese	EPA 6010A	1.5	mg/kg	**26.**	**30.**	**74.**	**65.**
Nickel	EPA 6010A	4.0	mg/kg	< 4.0	< 4.0	< 4.0	< 4.0
Potassium	EPA 6010A	500	mg/kg	**760**	**590**	**1000**	**1000**
Selenium	EPA 6010A	20.	mg/kg	< 20.	< 20.	< 20.	< 20.
Sodium	EPA 6010A	100	mg/kg	**150**	**200**	**180**	**170**
Thallium	EPA 6010A	20.	mg/kg	< 20.	< 20.	< 20.	< 20.
Vanadium	EPA 6010A	5.0	mg/kg	**6.2**	**6.6**	**9.2**	**11.**
Zinc	EPA 6010A	2.0	mg/kg	**8.2**	**5.9**	**12.**	**17.**
Percent Solids	--		%	71.7	66.3	78.2	83.2

Notes:

Dilution Factor:

Dilution factor indicates the adjustments made for sample dilution.

EPA 6010A, EPA 7421:

Digestion by EPA Method 3050A. "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW-846, Third Edition including Update 2.

W7040160-06:

The matrix spike exceeded acceptable recovery limits for sodium due to matrix interferences. The matrix spike exceeded acceptable recovery limits for mercury due to sample heterogeniety.

Project ID (Number): DOIIWAD3 POL PHASEII
Project ID (Name): HAFB
DOII WAD3
Holloman, NM
Work Order Number: W7-04-0160
Date Reported: 04-21-97

QA NONCONFORMANCE SUMMARY

Metals in Soil

1.0 Sample Handling

1.1 Sample handling and holding time criteria were not met for zero samples.

2.0 Initial Calibration Verification

2.1 The validity for the calibration verification was exceeded for zero samples as shown in Table 2.

3.0 Method Blanks

3.1 Zero target elements were found in the method blank as shown in Table 3.

4.0 Matrix Spike (MS) Accuracy

4.1 The recovery limits were exceeded in the matrix spike and matrix spike duplicate for five elements as shown in Table 4A and 4B.

4.2 Recovery limits were exceeded for sodium in the matrix spike sample due to matrix interferences.

4.3 Recovery limits were exceeded for mercury in the matrix spike due to matrix interferences.

5.0 Sample Duplicate Precision

5.1 The maximum percent difference (RPD) was exceeded for two elements in the matrix spike and matrix spike duplicate samples as shown in Table 4A and 4B.

6.0 Laboratory Control Sample

6.1 The recovery limits were not met for zero elements for the laboratory control samples as shown in Table 5.

6.2 The recovery limits for the laboratory control sample and the laboratory control duplicate are listed for both mercury and sodium as requested for QC exceeding acceptable limits.

Project ID (Number): DOIIWAD3 POL PHASEII
Project ID (Name): HAFB
DOII WAD3
Holloman, NM
Work Order Number: W7-04-0160
Date Reported: 04-21-97

Table 2
INITIAL CALIBRATION VERIFICATION QC CHECK SAMPLE REPORT
Metals in Soil

Analyte	Expected Result, mg/L	Observed Result, mg/L	Recovery, %	Acceptability Limits, %[a]
Aluminum	1.01	1.00	99	90-110
Antimony	1.00	0.987	98.7	90-110
Arsenic	1.01	1.07	106	90-110
Barium	1.00	1.00	100	90-110
Beryllium	1.00	0.986	98.6	90-110
Cadmium	1.00	1.01	101	90-110
Calcium	1.00	0.955	95.5	90-110
Chromium	1.00	0.994	99.4	90-110
Cobalt	1.00	1.02	102	90-110
Copper	1.00	0.99	99	90-110
Iron	1.00	1.01	101	90-110
Lead	1.00	1.04	104	90-110
Magnesium	0.990	0.996	101	90-110
Manganese	1.00	0.984	98.4	90-110
Mercury	1.00	0.00386	96.5	90-110
Nickel	1.00	1.02	102	90-110
Potassium	10.0	10.33	103	90-110
Selenium	0.0400	1.02	102	90-110
Silver	0.500	0.51	102	90-110
Sodium	1.00	0.96	96	90-110
Thallium	1.00	1.03	103	90-110
Vanadium	1.01	0.978	96.8	90-110
Zinc	1.00	1.02	102	90-110

a Acceptability limits as per EPA Contract Laboratory Program

Project ID (Number): DOIIWAD3 POL PHASEII
Project ID (Name): HAFB
DOII WAD3
Holloman, NM
Work Order Number: W7-04-0160
Date Reported: 04-21-97

Table 3
BLANK REPORT
Metals in Soil

Analyte	Initial Calibration Blank, mg/L	Preparation Blank, mg/Kg
Aluminum	<0.200	<20.0
Antimony	<0.200	<20.0
Arsenic	<0.200	<20.0
Barium	<0.200	<20.0
Beryllium	<0.005	<0.500
Cadmium	<0.020	<2.00
Calcium	<1.00	<100
Chromium	<0.030	<3.00
Cobalt	<0.050	<5.00
Copper	<0.025	<2.50
Iron	<0.100	<10.0
Lead	<0.070	<7.00
Magnesium	<1.00	<100
Manganese	<0.0150	<1.50
Mercury	<0.0025	<0.250
Nickel	<0.040	<4.00
Potassium	<5.00	<500
Selenium	<0.200	<20.0
Silver	<0.020	<2.00
Sodium	<1.00	<100
Thallium	<0.200	<20.0
Vanadium	<0.050	<5.00
Zinc	<0.020	<2.00

<# detected at the indicated detection limit (#)

Project ID (Number): DOIIWAD3 POL PHASEII
Project ID (Name): HAFB
DOII WAD3
Holloman, NM
Work Order Number: W7-04-0160
Date Reported: 04-21-97

Table 4A
MATRIX SPIKE AND MATRIX SPIKE DUPLICATE SUMMARY
Metals in Soil

Sample Spiked: Method 6010A W7040143-09
Sample Spiked: Method 7060 W7040143-09

Analyte	Spike Added, mg/Kg	Sample Concentration, mg/Kg	MS Concentration, mg/Kg	MS Percent Recovery	Acceptability Limits, %[a]
Aluminum	294	2350	2190	NA	80-120
Antimony	294	<20.0	265	90.0	80-120
Arsenic	294	<40.0	278	94.6	80-120
Barium	294	<20.0	285	97.0	80-120
Beryllium	118	<0.500	98.1	83.4	80-120
Cadmium	149	<2.00	134	90.0	80-120
Calcium	294	100000	100000	NA	80-120
Chromium	294	3.14	255	85.8	80-120
Cobalt	294	<5.00	254	86.3	80-120
Copper	294	2.87	270	90.9	80-120
Iron	294	3100	2210	NA	80-120
Lead	294	<7.00	262	89.2	75-125
Magnesium	294	7300	3560	NA	80-120
Manganese	294	53.1	285	78.7	80-120
Mercury	0.299	<0.0025	0.212	71.0[b]	75-125
Nickel	294	<4.00	255	86.6	80-120
Potassium	1470	617	2000	93.7	80-120
Selenium	294	<20.0	290	98.7	80-120
Silver	58.8	<2.00	49.3	83.9	80-120
Sodium	294	<500	458	156[b]	80-120
Thallium	294	<20.0	248	84.3	80-120
Vanadium	294	6.74	262	86.7	80-120
Zinc	294	7.69	266	87.7	80-120

a Acceptability limits as per EPA Contract Laboratory Program.

b Value is outside of acceptability limits.

Project ID (Number): DOIIWAD3 POL PHASEII
Project ID (Name): HAFB
DOII WAD3
Holloman, NM
Work Order Number: W7-04-0160
Date Reported: 04-21-97

Table 4B
MATRIX SPIKE AND MATRIX SPIKE DUPLICATE SUMMARY
Metals In Soil

Analyte	Spike Added, mg/Kg	MSD Concentration, mg/Kg	MSD Percent Recovery	RPD %	Acceptability Limits, %[a]
Aluminum	328	2180	NA	0.272	20.0
Antimony	328	297	90.0	0.490	20.0
Arsenic	328	312	95.0	0.450	20.0
Barium	328	305	93.2	3.96	20.0
Beryllium	131	110	84.0	0.741	20.0
Cadmium	166	149	90.0	0.0840	20.0
Calcium	328	100000	NA	5.52	20.0
Chromium	328	286	86.4	0.713	20.0
Cobalt	328	286	87.2	1.02	20.0
Copper	328	298	90.0	1.14	20.0
Iron	328	2190	NA	0.885	20.0
Lead	328	294	89.8	0.610	20.0
Magnesium	328	3010	NA	16.7	20.0
Manganese	328	313	79.2	0.617	20.0
Mercury	0.270	0.188	69.6	2.08	20.0
Nickel	328	285	86.8	0.286	20.0
Potassium	1640	2170	94.8	1.25	20.0
Selenium	328	325	99.0	0.382	20.0
Silver	65.6	47.8	72.9	14.0	20.0
Sodium	328	483	147	5.58	20.0
Thallium	328	281	85.7	1.63	20.0
Vanadium	328	291	86.6	0.0350	20.0
Zinc	328	298	88.4	0.878	20.0

a Acceptability limits as per EPA Contract Laboratory Program.

b Value is outside of acceptability limits.

Project ID (Number): DOIIWAD3 POL PHASEII
Project ID (Name): HAFB
DOII WAD3
Holloman, NM
Work Order Number: W7-04-0160
Date Reported: 04-21-97

Table 5
LABORATORY CONTROL SAMPLE RESULTS
Metals in Soil

Analyte	Expected Result, mg/Kg	Observed Result, mg/Kg	Recovery, %	Acceptability Limits, %[a]
Aluminum	400	374	93.5	80-120
Antimony	400	366	91.5	80-120
Arsenic	400	376	94.0	80-120
Barium	400	372	93.0	80-120
Beryllium	160	149	93.0	80-120
Cadmium	202	185	91.5	80-120
Calcium	400	373	93.0	80-120
Chromium	400	383	96.0	80-120
Cobalt	400	381	95.0	80-120
Copper	400	369	92.0	80-120
Iron	400	379	95.0	80-120
Lead	400	380	95.0	80-120
Magnesium	400	375	94.0	80-120
Manganese	400	376	94.0	80-120
Mercury (LCS)	0.333	0.0271	81.4	75-125
Mercury (LCSD)	0.333	0.283	85.0	75-125
Nickel	400	383	96.0	80-120
Potassium	2000	1854	92.5	80-120
Selenium	400	377	94.0	80-120
Silver	80.0	71.6	89.5	80-120
Sodium (LCS)	400	359	90.0	80-120
Sodium (LCSD)	400	352	88.0	80-120
Thallium	400	371	93.0	80-120
Vanadium	400	378	94.5	80-120
Zinc	400	364	91.0	80-120

a Acceptability limits established by laboratory practice

ANALYTICAL RESULTS
Paint Filter

NEI/GTEL Client ID: FWH03FWH03
'ogin Number: W7040160
ɔject ID (number): DOIIWAD3 POL PHASEII
Project ID (name): HAFB/DOII WAD3/HOLLOMAN/NM

Method: EPA 9095
Matrix: Solids

NEI/GTEL Sample Number	W7040160-10	--	--	--
Client ID	SWMU08-SP1	--	--	--
Date Sampled	04/09/97	--	--	--
Date Analyzed	04/14/97	--	--	--
Dilution Factor	1.00	--	--	--

Analyte	Reporting Limit	Units	Concentration:Dry Weight			
Paint Filter Liquids Test	--	std	Not Present	--	--	--
Percent Solids	--	%	76.3	--	--	--

Notes:

Dilution Factor:

Dilution factor indicates the adjustments made for sample dilution.

EPA 9095:

"Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW-846, Third Edition including Update 2.

ANALYTICAL RESULTS
Results For Multiple Methods

NEI/GTEL Client ID: FWH03FWH03
Login Number: W7040160
Project ID (number): DOIIWAD3 POL PHASEII
Project ID (name): HAFB/DOII WAD3/HOLLOMAN/NM

Method: See Below
Matrix: Solids

	NEI/GTEL Sample Number	W7040160-10	--	--	--
	Client ID	SWMU08-SP1	--	--	--
	Date Sampled	04/09/97	--	--	--
ASTM D93	Date Analyzed	04/14/97	--	--	--
ASTM D93	Dilution Factor	1.00	--	--	--
EPA 9010A	Date Prepared	04/16/97	--	--	--
EPA 9010A	Date Analyzed	04/17/97	--	--	--
EPA 9010A	Dilution Factor	1.00	--	--	--
EPA 9045B	Date Analyzed	04/16/97	--	--	--
EPA 9045B	Dilution Factor	1.00	--	--	--
EPA SW 846, CH. 7	Date Prepared	04/15/97	--	--	--
EPA SW 846, CH. 7	Date Analyzed	04/15/97	--	--	--
EPA SW 846, CH. 7	Dilution Factor	1.00	--	--	--

Analyte		Reporting Limit	Units	Concentration:Dry Weight			
Inorganics (MT, WC)							
Total Cyanide	EPA 9010A	2.0	mg/kg	< 2.0	--	--	--
Flashpoint (Closed Cup)	ASTM D93	70.0	deg F	> 200.	--	--	--
pH	EPA 9045B	0.	pH	7.5	--	--	--
Reactive Sulfide	EPA SW 846, CH.	25.	mg/kg	< 25.	--	--	--
Percent Solids	--		%	76.3	--	--	--

Notes:

Dilution Factor:

Dilution factor indicates the adjustments made for sample dilution.

ASTM D93:

Annual Book of ASTM Standards, 1983 Revision.

EPA 9010A, EPA 9045B, EPA SW 846, CH. 7:

"Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW-846, Third Edition including Update 2.

W7040160-10:

Recovery limits were exceeded in the matrix spike and matrix spike duplicate for reactivity sulfide due to matrix interferences.

Project ID (Number): DOIIWAD3 POL PHASEII
Project ID (Name): HAFB
DOII WAD3
Holloman, NM
Work Order Number: W7-04-0160
Date Reported: 04-22-97

QA NONCONFORMANCE SUMMARY

Inorganics

1.0 Sample Handling

1.1 Sample handling and holding time criteria were not met for zero samples.

2.0 Initial and Continuing Calibration Verification

2.1 The criteria for the calibration verification QC Check Sample was exceeded for zero samples as shown in Table 2.

3.0 Method Blanks

3.1 Zero target analytes were found in the method blank as shown in Table 3.

4.0 Matrix Spike (MS) Accuracy

4.1 The recovery limits were exceeded in the matrix spike for one analyte as shown in Table 4.

4.2 The recovery limits were exceeded in the matrix spike and matrix spike duplicate for reactivity sulfide due to matrix interferences. The LCS and LCS duplicate were within acceptability limits as shown in Table 6.

5.0 Matrix Spike Duplicate Precision

5.1 The maximum percent difference (RPD) was exceeded for zero analytes in the duplicate samples as shown in Table 5.

6.0 Laboratory Control Sample

6.1 The recovery limits were not met for zero analytes in the Laboratory Control Sample as shown in Table 6.

Project ID (Number): DOIIWAD3 POL PHASEII
Project ID (Name): HAFB
DOII WAD3
Holloman, NM
Work Order Number: W7-04-0160
Date Reported: 04-22-97

Table 2A

INITIAL CALIBRATION VERIFICATION QC CHECK SAMPLE REPORT

Inorganics

Analyte	Expected Result	Observed Result	Units	Recovery, %	Acceptability Limits, %[a]
Total Cyanide	0.192	0.197	mg/L	103	90-110

a Acceptability limits established by laboratory practice.

Table 3

BLANK REPORT

Inorganics

Analyte	Initial Calibration Blank	Units	Preparation Blank	Units
Total Cyanide	<0.02	mg/L	<2.0	mg/Kg
Reactivity Sulfide	NA	mg/L	<25	mg/Kg

NA Not Applicable

Project ID (Number): DOIIWAD3 POL PHASEII
Project ID (Name): HAFB
DOII WAD3
Holloman, NM
Work Order Number: W7-04-0160
Date Reported: 04-22-97

Table 4

MATRIX SPIKE (MS) RECOVERY SUMMARY

Inorganics

Sample Spiked: W7040132-01

Analyte	MS Sample Result	Sample Result	Amount Added	Units	MS, % Recovery	Acceptability Limits, %[a]
Total Cyanide	18.5	<4.0	18.7	mg/Kg	98.7	80-120
Reactivity Sulfide	116	<25	502	mg/Kg	231[b]	60-140

a Acceptability limits established by laboratory practice.

b Indicates a value outside acceptability limits.

Table 5

MATRIX SPIKE DUPLICATE SAMPLE RESULTS
AND RELATIVE PERCENT DIFFERENCE (RPD) SUMMARY

Inorganics

Analyte	Matrix Spike Result	Matrix Spike Duplicate Result	Units	RPD, %	Maximum RPD, %[a]
Total Cyanide	98.7	87.6	%	11.9	20
Reactivity Sulfide	23.1	25.1	%	8.30	20

a Acceptability limits established by laboratory practice.

Table 6

LABORATORY CONTROL SAMPLE RESULTS

Inorganics

Analyte	Expected Result	Observed Result	Units	Recovery, %	Acceptability Limits, %[a]
Total Cyanide	19.7	17.7	mg/Kg	89.8	80-120
Reactivity Sulfide (LCS)	508	366	mg/Kg	72.1	60-140
Reactivity Sulfide (LCSD)	508	392	mg/Kg	77.2	60-140

a Acceptability limits established by laboratory practice.

Project ID (Number): DOII2AD3 POL PHASEII
Project ID (Name): HAFB
DOII WAD3
Holloman, NM
Work Order Number: W7-04-0160
Date Reported: 04-21-97

ANALYTICAL RESULTS

Volatile Organics in TCLP Leachate[a]
EPA Method 8240 Modified

GTEL Sample Number		10			
Client Identification		SWMU08-SP1			
Date Sampled		04-09-97			
Date Leached		04-14-97			
Date Analyzed		04-16-97			
Analyte	Quantitation Limit, mg/L	Concentration, mg/L			
Benzene	0.050	<0.050			
Carbon tetrachloride	0.050	<0.050			
Chlorobenzene	0.050	<0.050			
Chloroform	0.050	<0.050			
1,2-Dichloroethane	0.050	<0.050			
1,1-Dichloroethylene	0.050	<0.050			
Methyl ethyl ketone	0.20	<0.20			
Tetrachloroethylene	0.050	<0.050			
Trichloroethylene	0.050	<0.050			
Vinyl chloride	0.10	<0.10			
Quantitation Limit Multiplier[b]		1			

a Test Methods for Evaluating Solid Waste, SW-846, Third Edition, Revision 0, US EPA, November 1986. This method is modified for megabore column use. TCLP is performed as per 40 CFR, Part 261, Appendix II-Method 1311. These data are presented in accordance with the Federal Register 57, p. 55114, November 24, 1992.

b The quantitation limit multiplier indicates the adjustments made to the data and detection limits for sample dilutions.

Project ID (Number): DOII2AD3 POL PHASEII
Project ID (Name): HAFB
DOII WAD3
Holloman, NM
Work Order Number: W7-04-0160
Date Reported: 04-21-97

QA NONCONFORMANCE SUMMARY

Volatile Organics in TCLP Leachate
EPA Method 8240 Modified

1.0 Sample Handling

1.1 Sample handling and holding time criteria were not met for 0 samples.

2.0 Surrogate Compound Recoveries

2.1 The recovery limits were exceeded for surrogate compounds in 0 samples as shown in Table 2.

3.0 Matrix Spike (MS) Accuracy

3.1 The recovery limits were exceeded in the matrix spike for 0 compounds as shown in Table 3.

4.0 Sample Duplicate Precision

4.1 The maximum percent difference (RPD) was exceeded for 0 compounds in the duplicate samples as shown in Table 3.

5.0 Method Blanks

5.1 Zero target compound(s) was/were found in the method blank as shown in Table 4.

Project ID (Number): DOII2AD3 POL PHASEII
Project ID (Name): HAFB
DOII WAD3
Holloman, NM
Work Order Number: W7-04-0160
Date Reported: 04-21-97

Table 2

SURROGATE RECOVERY SUMMARY

Volatile Organics in TCLP Leachate
EPA Method 8240 Modified

GTEL No.	Percent Recovery, %			
	S1 (TOL)	S2 (BFB)	S3 (DCE)	TOTAL OUT
TCLP041497F1	96.2	101	90.0	0
W704016010	97.1	99.3	96.8	0
MS04014309	102	104	103	0
MD04014309	102	104	103	0
BMS041497	94.5	97.5	103	0
BMD041497	94.9	94.8	92.1	0

	Surrogates		Amount Spiked, ug/L	Recovery Limits[a]
S1	TOL	Toluene-d8	50	88-110
S2	BFB	Bromofluorobenzene	50	86-115
S3	DCE	1,2-Dichloroethane-d4	50	76-114

* Indicates values outside of acceptability limits.
a Acceptability limits are derived from USEPA Contract Laboratory Program (CLP) guidelines.
D Diluted out. Percent Recovery is not calculated when surrogate compound(s) are diluted out.

Project ID (Number): DOII2AD3 POL PHASEII
Project ID (Name): HAFB
DOII WAD3
Holloman, NM
Work Order Number: W7-04-0160
Date Reported: 04-21-97

Table 3

MATRIX SPIKE (MS) AND MATRIX SPIKE DUPLICATE (MSD) SUMMARY
PERCENT RECOVERY AND RELATIVE PERCENT DIFFERENCE (RPD)
Volatile Organics in TCLP Extract
Modified EPA Method 8240

Sample Spiked: MS04014309

Analyte	Spike Added, ug/L	Sample Concentration, ug/L	MS Concentration, ug/L	MS Percent Recovery	Acceptability Limits, %[a]
Vinyl Chloride	100.0	<10	68.9	68.9	10-251[1]
1,1-Dichloroethene	100.0	<5	76.5	76.5	61-145[5]
Chloroform	100.0	<5	91.7	91.7	51-138[1]
1,2-Dichloroethane	100.0	<5	99.6	99.6	49-155[1]
2-Butanone	100.0	<20	110.1	110.1	28-180[3]
Carbon Tetrachloride	100.0	<5	79.4	79.4	70-140[1]
Trichloroethene	100.0	<5	83.9	83.9	71-120[5]
Benzene	100.0	<5	92.2	92.2	76-127[1]
Tetrachloroethene	100.0	<5	76.3	76.3	64-148[1]
Chlorobenzene	100.0	<5	89.7	89.7	75-130[5]

Analyte	Spike Added, ug/L	MSD Concentration, ug/L	MSD Percent Recovery	RPD, %	Acceptability Limits	
					RPD	% Recovery
Vinyl Chloride	100.0	81.7	81.7	17	65.0[3]	10-251[1]
1,1-Dichloroethene	100.0	88.4	88.4	14	14[5]	61-145[5]
Chloroform	100.0	94.5	94.5	3.0	18.2[3]	51-138[1]
1,2-Dichloroethane	100.0	103.5	103.5	3.9	20.6[3]	49-155[1]
2-Butanone	100.0	132.9	132.9	19	25.0[3]	20-180[3]
Carbon Tetrachloride	100.0	88.4	88.4	10.8	11.3[3]	70-140[1]
Trichloroethene	100.0	89.2	89.2	6.1	14[5]	71-120[5]
Benzene	100.0	98.3	98.3	6.4	11[5]	76-127[1]
Tetrachloroethene	100.0	83.8	83.8	9.3	15.6[3]	64-148[1]
Chlorobenzene	100.0	94.4	94.4	5.1	13[5]	75-130[5]

* Indicates values outside of acceptability limits.
1 Accuracy limits as published in the EPA methods. (lowest acceptable limit has been tightened to 10% recovery based on laboratory practice)
3 Limits based on laboratory practice i.e. provisional limits.
5 Acceptability limits are derived from USEPA Contract Laboratory Program (CLP) requirements.
RPD: _0_ of _10_ outside limits.
Spike Recovery: _0_ of _20_ outside limits.

Project ID (Number): DOII2AD3 POL PHASEII
Project ID (Name): HAFB
DOII WAD3
Holloman, NM
Work Order Number: W7-04-0160
Date Reported: 04-21-97

Table 3

LABORATORY CONTROL SAMPLE (LCS) SUMMARY
PERCENT RECOVERY
Volatile Organics in TCLP Extract
Modified EPA Method 8240

Sample Spiked: TCLP041497F1 Client ID: TCLP BLK

Analyte	Spike Added, ug/L	Sample Concentration, ug/L	MS Concentration, ug/L	MS Percent Recovery	Acceptability Limits, %[a]
Vinyl Chloride	100.0	<10	84.9	84.9	10-251[1]
1,1-Dichloroethene	100.0	<5	95.2	95.2	61-145[5]
Chloroform	100.0	<5	100.2	100.2	51-138[1]
1,2-Dichloroethane	100.0	<5	106.2	106.2	49-155[1]
2-Butanone	100.0	<20	133.2	133.2	28-180[3]
Carbon Tetrachloride	100.0	<5	98.5	98.5	70-140[1]
Trichloroethene	100.0	<5	102.7	102.7	71-120[5]
Benzene	100.0	<5	96.1	96.1	76-127[1]
Tetrachloroethene	100.0	<5	97.4	97.4	64-148[1]
Chlorobenzene	100.0	<5	102.0	102.0	75-130[5]

* Indicates values outside of acceptability limits.
1 Accuracy limits as published in the EPA methods. (lowest acceptable limit has been tightened to 10% recovery based on laboratory practice)
3 Limits based on laboratory practice i.e. provisional limits.
5 Acceptability limits are derived from USEPA Contract Laboratory Program (CLP) requirements.
Spike Recovery: _0_ of _10_ outside limits.

Project ID (Number): DOII2AD3 POL PHASEII
Project ID (Name): HAFB
DOII WAD3
Holloman, NM
Work Order Number: W7-04-0160
Date Reported: 04-21-97

Table 4

METHOD BLANK RESULTS

Volatile Organics in TCLP Leachate[a]
EPA Method 8240 Modified

	File ID	TCLP041497F1
	Date Leached	04-14-97
	Extraction Fluid	#1
	Date Analyzed	04-16-97
Analyte	Quantitation Limit, mg/L	Concentration, mg/L
Benzene	0.050	<0.050
Carbon tetrachloride	0.050	<0.050
Chlorobenzene	0.050	<0.050
Chloroform	0.050	<0.050
1,2-Dichloroethane	0.050	<0.050
1,1-Dichloroethylene	0.050	<0.050
Methyl ethyl ketone	0.20	<0.20
Tetrachloroethylene	0.050	<0.050
Trichloroethylene	0.050	<0.050
Vinyl chloride	0.10	<0.10

a Test Methods for Evaluating Solid Waste, SW-846, Third Edition, Revision 0, US EPA, November 1986. This method is modified for megabore column use. TCLP is performed as per 40 CFR, Part 261, Appendix II-Method 1311. These data are presented in accordance with the Federal Register 57, p. 55114, November 24, 1992.

ANALYTICAL RESULTS
Volatile Organics

NEI/GTEL Client ID: FWH03FWH03
Login Number: W7040160
Project ID (number): DOIIWAD3 POL PHASEII
Project ID (name): HAFB/DOII WAD3/HOLLOMAN/NM

Method: EPA 8240B
Matrix: Low Soil

NEI/GTEL Sample Number	W7040160-06	W7040160-07	W7040160-08	W7040160-09
Client ID	SWMU08-01-06	SWMU08-02-06	SWMU08-03-06	SWMU08-04-06
Date Sampled	04/09/97	04/09/97	04/09/97	04/09/97
Date Analyzed	04/17/97	04/17/97	04/17/97	04/17/97
Dilution Factor	1.00	1.00	1.00	1.00

Analyte	Reporting Limit	Units	Concentration:Dry Weight			
Chloromethane	10.	ug/kg	< 10.	< 10.	< 10.	< 10.
Bromomethane	10.	ug/kg	< 10.	< 10.	< 10.	< 10.
Vinyl chloride	10.	ug/kg	< 10.	< 10.	< 10.	< 10.
Chloroethane	10.	ug/kg	< 10.	< 10.	< 10.	< 10.
Methylene chloride	10.	ug/kg	< 10.	< 10.	< 10.	< 10.
Acetone	20.	ug/kg	< 20.	< 20.	< 20.	< 20.
Carbon disulfide	5.0	ug/kg	< 5.0	< 5.0	< 5.0	< 5.0
1,1-Dichloroethene	5.0	ug/kg	< 5.0	< 5.0	< 5.0	< 5.0
1,1-Dichloroethane	5.0	ug/kg	< 5.0	< 5.0	< 5.0	< 5.0
cis-1,2-Dichloroethene	5.0	ug/kg	< 5.0	< 5.0	< 5.0	< 5.0
trans-1,2-Dichloroethene	5.0	ug/kg	< 5.0	< 5.0	< 5.0	< 5.0
Chloroform	5.0	ug/kg	< 5.0	< 5.0	< 5.0	< 5.0
1,2-Dichloroethane	5.0	ug/kg	< 5.0	< 5.0	< 5.0	< 5.0
2-Butanone	20.	ug/kg	< 20.	< 20.	< 20.	< 20.
1,1,1-Trichloroethane	5.0	ug/kg	< 5.0	< 5.0	< 5.0	< 5.0
Carbon tetrachloride	5.0	ug/kg	< 5.0	< 5.0	< 5.0	< 5.0
Vinyl acetate	20.	ug/kg	< 20.	< 20.	< 20.	< 20.
Bromodichloromethane	5.0	ug/kg	< 5.0	< 5.0	< 5.0	< 5.0
1,2-Dichloropropane	5.0	ug/kg	< 5.0	< 5.0	< 5.0	< 5.0
cis-1,3-Dichloropropene	5.0	ug/kg	< 5.0	< 5.0	< 5.0	< 5.0
Trichloroethene	5.0	ug/kg	< 5.0	< 5.0	< 5.0	< 5.0
Dibromochloromethane	5.0	ug/kg	< 5.0	< 5.0	< 5.0	< 5.0
1,1,2-Trichloroethane	5.0	ug/kg	< 5.0	< 5.0	< 5.0	< 5.0
Benzene	5.0	ug/kg	< 5.0	< 5.0	< 5.0	< 5.0
2-Chloroethylvinyl ether	10.	ug/kg	< 10.	< 10.	< 10.	< 10.
trans-1,3-Dichloropropene	5.0	ug/kg	< 5.0	< 5.0	< 5.0	< 5.0
Bromoform	5.0	ug/kg	< 5.0	< 5.0	< 5.0	< 5.0
4-Methyl-2-pentanone	20.	ug/kg	< 20.	< 20.	< 20.	< 20.
2-Hexanone	20.	ug/kg	< 20.	< 20.	< 20.	< 20.
Tetrachloroethene	5.0	ug/kg	< 5.0	< 5.0	< 5.0	< 5.0
1,1,2,2-Tetrachloroethane	5.0	ug/kg	< 5.0	< 5.0	< 5.0	< 5.0
Toluene	5.0	ug/kg	< 5.0	< 5.0	< 5.0	< 5.0
Chlorobenzene	5.0	ug/kg	< 5.0	< 5.0	< 5.0	< 5.0
Ethylbenzene	5.0	ug/kg	< 5.0	< 5.0	< 5.0	< 5.0
Styrene	5.0	ug/kg	< 5.0	< 5.0	< 5.0	< 5.0
Xylenes (total)	5.0	ug/kg	< 5.0	< 5.0	< 5.0	< 5.0
1,2-Dichlorobenzene	10.	ug/kg	< 10.	< 10.	< 10.	< 10.
1,3-Dichlorobenzene	10.	ug/kg	< 10.	< 10.	< 10.	< 10.
1,4-Dichlorobenzene	10.	ug/kg	< 10.	< 10.	< 10.	< 10.

ANALYTICAL RESULTS
Volatile Organics

NEI/GTEL Client ID: FWH03FWH03
Login Number: W7040160
Project ID (number): DOIIWAD3 POL PHASEII
Project ID (name): HAFB/DOII WAD3/HOLLOMAN/NM

Method: EPA 8240B
Matrix: Low Soil

NEI/GTEL Sample Number	W7040160-06	W7040160-07	W7040160-08	W7040160-09
Client ID	SWMU08-01-06	SWMU08-02-06	SWMU08-03-06	SWMU08-04-06
Date Sampled	04/09/97	04/09/97	04/09/97	04/09/97
Date Analyzed	04/17/97	04/17/97	04/17/97	04/17/97
Dilution Factor	1.00	1.00	1.00	1.00

Analyte	Reporting Limit	Units	Concentration:Dry Weight			
Percent Solids	--	%	71.7	66.3	78.2	83.2

Notes:

Dilution Factor:

Dilution factor indicates the adjustments made for sample dilution.

EPA 8240B:

"Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW-846, Third Edition including promulgated Update II.

NEI/GTEL Client ID: FWH03FWH03 QUALITY CONTROL RESULTS
Login Number: W7040160 Volatile Organics
Project ID (number): DOIIWAD3 POL PHASEII Method: EPA 8240B
Project ID (name): HAFB/DOII WAD3/HOLLOMAN/NM Matrix: Lo 1

Conformance/Non-Conformance Summary

(X = Requirements Met * = See Comments -- = Not Required NA = Not Applicable)

Conformance Item	Volatile Organics	Semi-Volatile Organics	Inorganics (MT, WC)
GC/MS Tune	--	--	NA
Initial Calibration	--	--	--
Continuing Calibration	--	--	--
Surrogate Recovery	X	--	NA
Holding Time	X	--	--
Method Accuracy	X	--	--
Method Precision	X	--	--
Blank Contamination	X	--	--

Comments:

NEI/GTEL Client ID: FWH03FWH03 QUALITY CONTROL RESULTS
Login Number: W7040160 Volatile Organics
Project ID (number): DOIIWAD3 POL PHASEII Method: EPA 8240B
Project ID (name): HAFB/DOII WAD3/HOLLOMAN/NM Matrix: Low Soil

Surrogate Results

QC Batch No.	Reference	Sample ID	DCA-D4	TOL-D8	4-BFB
Method: EPA 8240B		Acceptability Limits:	70-121%	81-117%	74-121%
041797HP3B-1	BL041797HP3	Method blanks low	93.9	92.7	98.6
041797HP3B-2	LS041797HP3	Laboratory control	105.	95.7	101.
041797HP3B-3	LSD041797HP3	LCS Soil Duplicate	98.0	97.3	101.
041797HP3B-4	MS04016009	Matrix Spike	98.9	98.7	102.
041797HP3B-5	MD04016009	Matrix Spike Dupli	107.	102.	99.4
--	04016006	SWMU08-01-06	97.3	98.1	96.9
--	04016007	SWMU08-02-06	99.8	94.9	102.
--	04016008	SWMU08-03-06	98.6	97.4	101.
--	04016009	SWMU08-04-06	106.	96.1	101.

Notes:
*: Indicates values outside of acceptability limits. See Nonconformance Summary.

NEI/GTEL Client ID: FWH03FWH03 QUALITY CONTROL RESULTS
Login Number: W7040160 Volatile Organics
Project ID (number): DOIIWAD3 POL PHASEII Method: EPA 8240B
Project ID (name): HAFB/DOII WAD3/HOLLOMAN/NM Matrix: Low

Method Blank Results

QC Batch No: 041797HP3B-1
Date Analyzed: 17-APR-97

Analyte	Method:EPA 8240B Concentration: ug/kg
Chloromethane	< 10.0
Bromomethane	< 10.0
Vinyl chloride	< 10.0
Chloroethane	< 10.0
Methylene chloride	< 10.0
Acetone	< 20.0
Carbon disulfide	< 5.00
1,1-Dichloroethene	< 5.00
1,1-Dichloroethane	< 5.00
cis-1,2-Dichloroethene	< 5.00
trans-1,2-Dichloroethene	< 5.00
Chloroform	< 5.00
1,2-Dichloroethane	< 5.00
2-Butanone	< 20.0
1,1,1-Trichloroethane	< 5.00
Carbon tetrachloride	< 5.00
Vinyl acetate	< 20.0
Bromodichloromethane	< 5.00
1,2-Dichloropropane	< 5.00
cis-1,3-Dichloropropene	< 5.00
Trichloroethene	< 5.00
Dibromochloromethane	< 5.00
1,1,2-Trichloroethane	< 5.00
Benzene	< 5.00
2-Chloroethyl vinyl ether	< 10.0
trans-1,3-Dichloropropene	< 5.00
Bromoform	< 5.00
4-Methyl-2-pentanone	< 20.0
2-Hexanone	< 20.0
Tetrachloroethene	< 5.00
1,1,2,2-Tetrachloroethane	< 5.00
Toluene	< 5.00
Chlorobenzene	< 5.00
Ethylbenzene	< 5.00
Styrene	< 5.00
Xylenes (Total)	< 5.00
1,2-Dichlorobenzene	< 10.0
1,3-Dichlorobenzene	< 10.0
1,4-Dichlorobenzene	< 10.0

Notes:

NEI/GTEL Client ID: FWH03FWH03
Login Number: W7040160
Project ID (number): DOIIWAD3 POL PHASEII
Project ID (name): HAFB/DOII WAD3/HOLLOMAN/NM

QUALITY CONTROL RESULTS

Volatile Organics
Method: EPA 8240B
Matrix: Low Soil

Matrix Spike(MS) and Matrix Spike Duplicate(MSD) Results

GTEL Sample ID:W7040160-09 MS ID:MS04016009 MSD ID:MD04016009
Analysis Date: 17-APR-97 17-APR-97 17-APR-97

Units: ug/kg	Sample	Spikes Added		MS	MS	MSD	MSD		Acceptability Limits	
Analyte	Conc.	MS	MSD	Conc.	% Rec.	Conc.	% Rec.	RPD	RPD	%Rec.
1,1-Dichloroethene	< 5.0 (0.000)	50.0	50.0	49.9	99.8	54.5	109.	8.80	24	59-172
Trichloroethene	< 5.0 (0.000)	50.0	50.0	49.2	98.4	52.6	105.	6.50	22	62-137
Benzene	< 5.0 (0.000)	50.0	50.0	48.1	96.2	51.1	102.	5.90	21	66-142
Toluene	< 5.0 (0.000)	50.0	50.0	47.1	94.2	51.0	102.	8.00	21	59-139
Chlorobenzene	< 5.0 (0.000)	50.0	50.0	46.7	93.4	50.1	100.	6.80	21	60-133

Notes:
Values in parentheses in the sample concentration column are used for % recovery calculations.

NEI/GTEL Client ID: FWH03FWH03 QUALITY CONTROL RESULTS
Login Number: W7040160 Volatile Organics
Project ID (number): DOIIWAD3 POL PHASEII Method: EP[illegible]40B
Project ID (name): HAFB/DOII WAD3/HOLLOMAN/NM Matrix: L[illegible]oil

Laboratory Control Sample (LCS) and Laboratory Control Duplicate Results

Analyte	Spike Amount	LCS Concentration	LCS Recovery, %	LCS Duplicate Concentration	LCS Duplicate Recovery, %	RPD, %	Acceptability Limits RPD, %	Acceptability Limits Recovery, %
EPA 8240B Units: ug/kg	QC Batch:041797HP3B-3							
1,1-Dichloroethene	50.0	58.1	116.	54.8	110.	5.31	22	59-172%
Trichloroethene	50.0	53.9	108.	51.6	103.	4.74	24	62-137%
Benzene	50.0	54.9	110.	52.5	105.	4.65	21	66-142%
Toluene	50.0	52.6	105.	49.8	99.6	5.28	21	59-139%
Chlorobenzene	50.0	50.5	101.	48.6	97.2	3.83	21	60-133%

Notes:

ANALYTICAL RESULTS
Semivolatile Organics

NEI/GTEL Client ID: FWH03FWH03
ɟin Number: W7040160
..oject ID (number): DOIIWAD3 POL PHASEII
Project ID (name): HAFB/DOII WAD3/HOLLOMAN/NM

Method: EPA 8270B
Matrix: Solids

NEI/GTEL Sample Number	W7040160-06	W7040160-07	W7040160-08	W7040160-09
Client ID	SWMU08-01-06	SWMU08-02-06	SWMU08-03-06	SWMU08-04-06
Date Sampled	04/09/97	04/09/97	04/09/97	04/09/97
Date Prepared	04/14/97	04/14/97	04/14/97	04/14/97
Date Analyzed	04/16/97	04/16/97	04/16/97	04/16/97
Dilution Factor	1.00	1.00	1.00	1.00

Analyte	Reporting Limit	Units	Concentration:Wet Weight			
Phenol	330	ug/kg	< 330	< 330	< 330	< 330
bis(2-Chloroethyl) ether	330	ug/kg	< 330	< 330	< 330	< 330
2-Chlorophenol	330	ug/kg	< 330	< 330	< 330	< 330
1,3-Dichlorobenzene	330	ug/kg	< 330	< 330	< 330	< 330
1,4-Dichlorobenzene	330	ug/kg	< 330	< 330	< 330	< 330
Benzyl alcohol	670	ug/kg	< 670	< 670	< 670	< 670
1,2-Dichlorobenzene	330	ug/kg	< 330	< 330	< 330	< 330
2-Methylphenol	330	ug/kg	< 330	< 330	< 330	< 330
bis(2-Chloroisopropyl) ether	330	ug/kg	< 330	< 330	< 330	< 330
4-Methylphenol	330	ug/kg	< 330	< 330	< 330	< 330
N-Nitrosodi-n-propylamine	330	ug/kg	< 330	< 330	< 330	< 330
Hexachloroethane	330	ug/kg	< 330	< 330	< 330	< 330
...trobenzene	330	ug/kg	< 330	< 330	< 330	< 330
...phorone	330	ug/kg	< 330	< 330	< 330	< 330
2-Nitrophenol	330	ug/kg	< 330	< 330	< 330	< 330
2,4-Dimethylphenol	330	ug/kg	< 330	< 330	< 330	< 330
Benzoic acid	1700	ug/kg	< 1700	< 1700	< 1700	< 1700
bis(2-Chloroethoxy)methane	330	ug/kg	< 330	< 330	< 330	< 330
2,4-Dichlorophenol	330	ug/kg	< 330	< 330	< 330	< 330
1,2,4-Trichlorobenzene	330	ug/kg	< 330	< 330	< 330	< 330
Naphthalene	330	ug/kg	< 330	< 330	< 330	< 330
4-Chloroaniline	330	ug/kg	< 330	< 330	< 330	< 330
Hexachlorobutadiene	330	ug/kg	< 330	< 330	< 330	< 330
4-Chloro-3-methylphenol	330	ug/kg	< 330	< 330	< 330	< 330
2-Methylnaphthalene	330	ug/kg	< 330	< 330	< 330	< 330
Hexachlorocyclopentadiene	330	ug/kg	< 330	< 330	< 330	< 330
2,4,6-Trichlorophenol	330	ug/kg	< 330	< 330	< 330	< 330
2,4,5-Trichlorophenol	330	ug/kg	< 330	< 330	< 330	< 330
2-Chloronaphthalene	330	ug/kg	< 330	< 330	< 330	< 330
2-Nitroaniline	1700	ug/kg	< 1700	< 1700	< 1700	< 1700
Dimethyl phthalate	330	ug/kg	< 330	< 330	< 330	< 330
Acenaphthylene	330	ug/kg	< 330	< 330	< 330	< 330
2,6-Dinitrotoluene	330	ug/kg	< 330	< 330	< 330	< 330
3-Nitroaniline	1700	ug/kg	< 1700	< 1700	< 1700	< 1700
Acenaphthene	330	ug/kg	< 330	< 330	< 330	< 330
2,4-Dinitrophenol	1700	ug/kg	< 1700	< 1700	< 1700	< 1700
4-Nitrophenol	1700	ug/kg	< 1700	< 1700	< 1700	< 1700
Dibenzofuran	330	ug/kg	< 330	< 330	< 330	< 330

ANALYTICAL RESULTS
Semivolatile Organics

NEI/GTEL Client ID: FWH03FWH03
Login Number: W7040160
Project ID (number): DOIIWAD3 POL PHASEII
Project ID (name): HAFB/DOII WAD3/HOLLOMAN/NM

Method: EPA 8270B
Matrix: Solids

NEI/GTEL Sample Number		W7040160-06	W7040160-07	W7040160-08	W7040160-09
Client ID		SWMU08-01-06	SWMU08-02-06	SWMU08-03-06	SWMU08-04-06
Date Sampled		04/09/97	04/09/97	04/09/97	04/09/97
Date Prepared		04/14/97	04/14/97	04/14/97	04/14/97
Date Analyzed		04/16/97	04/16/97	04/16/97	04/16/97
Dilution Factor		1.00	1.00	1.00	1.00
Analyte	Reporting Limit / Units	Concentration:Wet Weight			
2,4-Dinitrotoluene	330 ug/kg	< 330	< 330	< 330	< 330
Diethyl phthalate	330 ug/kg	< 330	< 330	< 330	< 330
4-Chlorophenyl phenyl ether	330 ug/kg	< 330	< 330	< 330	< 330
Fluorene	330 ug/kg	< 330	< 330	< 330	< 330
4-Nitroaniline	1700 ug/kg	< 1700	< 1700	< 1700	< 1700
4,6-Dinitro-2-methylphenol	1700 ug/kg	< 1700	< 1700	< 1700	< 1700
N-Nitrosodiphenylamine	330 ug/kg	< 330	< 330	< 330	< 330
4-Bromophenyl phenyl ether	330 ug/kg	< 330	< 330	< 330	< 330
Hexachlorobenzene	330 ug/kg	< 330	< 330	< 330	< 330
Pentachlorophenol	1700 ug/kg	< 1700	< 1700	< 1700	< 1700
Phenanthrene	330 ug/kg	< 330	< 330	< 330	< 330
Anthracene	330 ug/kg	< 330	< 330	< 330	< 330
Carbazole	330 ug/kg	< 330	< 330	< 330	< 330
Di-n-butyl phthalate	330 ug/kg	< 330	< 330	< 330	< 330
Fluoranthene	330 ug/kg	< 330	< 330	< 330	< 330
Pyrene	330 ug/kg	< 330	< 330	< 330	< 330
Butyl benzyl phthalate	330 ug/kg	< 330	< 330	< 330	< 330
3,3'-Dichlorobenzidine	670 ug/kg	< 670	< 670	< 670	< 670
Benzo(a)anthracene	330 ug/kg	< 330	< 330	< 330	< 330
Chrysene	330 ug/kg	< 330	< 330	< 330	< 330
bis(2-Ethylhexyl) phthalate	330 ug/kg	< 330	< 330	< 330	< 330
Di-n-octyl phthalate	330 ug/kg	< 330	< 330	< 330	< 330
Benzo(b)fluoranthene	330 ug/kg	< 330	< 330	< 330	< 330
Benzo(k)fluoranthene	330 ug/kg	< 330	< 330	< 330	< 330
Benzo(a)pyrene	330 ug/kg	< 330	< 330	< 330	< 330
Indeno(1,2,3-cd)pyrene	330 ug/kg	< 330	< 330	< 330	< 330
Dibenz(a,h)anthracene	330 ug/kg	< 330	< 330	< 330	< 330
Benzo(g,h,i)perylene	330 ug/kg	< 330	< 330	< 330	< 330
Percent Solids	-- %	71.7	66.3	78.2	83.2

Notes:

Dilution Factor:

Dilution factor indicates the adjustments made for sample dilution.

EPA 8270B:

"Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW-846, Third Edition including Update 2.

W7040160-06:

GC/MS Data indicates the presence of non-target compounds.

W7040160-07:

ANALYTICAL RESULTS
Semivolatile Organics

NEI/GTEL Client ID: FWH03FWH03
gin Number: W7040160
roject ID (number): DOIIWAD3 POL PHASEII
Project ID (name): HAFB/DOII WAD3/HOLLOMAN/NM

Method: EPA 8270B
Matrix: Solids

NEI/GTEL Sample Number	W7040160-06	W7040160-07	W7040160-08	W7040160-09
Client ID	SWMU08-01-06	SWMU08-02-06	SWMU08-03-06	SWMU08-04-06
Date Sampled	04/09/97	04/09/97	04/09/97	04/09/97
Date Prepared	04/14/97	04/14/97	04/14/97	04/14/97
Date Analyzed	04/16/97	04/16/97	04/16/97	04/16/97
Dilution Factor	1.00	1.00	1.00	1.00

Analyte	Reporting Limit	Units	Concentration:Wet Weight

Notes: (continued)

GC/MS Data indicates the presence of non-target compounds.

W7040160-08:

GC/MS Data indicates the presence of non-target compounds.

W7040160-09:

GC/MS Data indicates the presence of non-target compounds.

NEI/GTEL Client ID: FWH03FWH03 QUALITY CONTROL RESULTS
Login Number: W7040160 Semivolatile Organics
Project ID (number): DOIIWAD3 POL PHASEII Method: EPA 70B
Project ID (name): HAFB/DOII WAD3/HOLLOMAN/NM Matrix: ds

Conformance/Non-Conformance Summary

(X = Requirements Met * = See Comments -- = Not Required NA = Not Applicable)

Conformance Item	Volatile Organics	Semi-Volatile Organics	Inorganics (MT, WC)
GC/MS Tune	--	--	NA
Initial Calibration	--	--	--
Continuing Calibration	--	--	--
Surrogate Recovery	--	X	NA
Holding Time	--	X	--
Method Accuracy	--	X	--
Method Precision	--	X	--
Blank Contamination	--	X	--

Comments:

NEI/GTEL Client ID: FWH03FWH03 QUALITY CONTROL RESULTS
Login Number: W7040160 Semivolatile Organics
Project ID (number): DOIIWAD3 POL PHASEII Method: EPA 8270B
Project ID (name): HAFB/DOII WAD3/HOLLOMAN/NM Matrix: Solids

Surrogate Results

QC Batch No.	Reference	Sample ID	2FP	PHL	NBZ	FBP	TBP	TPH
Method: EPA 8270B		Acceptability Limits:	25-121%	24-113%	23-120%	30-115%	19-122%	18-137%
041497BNAS-1	BS041497BNA	Method Blank Soil	60.5	62.9	60.0	67.8	61.0	65.9
041497BNAS-2	LS041497BNA	Laboratory control	67.0	68.4	64.8	71.9	72.9	70.2
041497BNAS-3	LSD041497BNA	LCS Soil Duplicate	65.9	69.6	65.5	73.0	69.1	68.6
041497BNAS-4	MS04016009	Matrix Spike	66.7	69.2	67.8	71.8	69.5	66.1
041497BNAS-5	MD04016009	Matrix Spike Dupli	74.0	76.0	70.7	79.1	73.5	71.4
--	04016006	SWMU08-01-06	69.9	73.7	70.5	77.7	73.8	73.5
--	04016007	SWMU08-02-06	58.4	61.5	57.9	65.8	57.1	65.6
--	04016008	SWMU08-03-06	67.4	71.2	66.0	74.1	71.8	71.3
--	04016009	SWMU08-04-06	63.0	68.4	63.5	74.8	73.6	71.1

Notes:

*: Indicates values outside of acceptability limits. See Nonconformance Summary.

Acceptability limits are derived from USEPA Contract Laboratory Program (CLP) requirements: Statement of Work (SOW) for organic analysis OLM02.0 and OLM02.1.

NEI/GTEL Client ID: FWH03FWH03 QUALITY CONTROL RESULTS
Login Number: W7040160 Semivolatile Organics
Project ID (number): DOIIWAD3 POL PHASEII Method: EPA [illegible]0B
Project ID (name): HAFB/DOII WAD3/HOLLOMAN/NM Matrix: [illegible]ds

Method Blank Results

QC Batch No: 041497BNAS-1
Date Analyzed: 16-APR-97

Analyte	Method:EPA 8270B Concentration: ug/kg
Phenol	< 330.
bis(2-Chloroethyl) ether	< 330.
2-Chlorophenol	< 330.
1,3-Dichlorobenzene	< 330.
1,4-Dichlorobenzene	< 330.
Benzyl alcohol	< 670.
1,2-Dichlorobenzene	< 330.
2-Methylphenol	< 330.
bis(2-Chloroisopropyl) ether	< 330.
4-Methylphenol	< 330.
N-Nitrosodi-n-propylamine	< 330.
Hexachloroethane	< 330.
Nitrobenzene	< 330.
Isophorone	< 330.
2-Nitrophenol	< 330.
2,4-Dimethylphenol	< 330.
Benzoic acid	< 1700
bis(2-Chlorethoxy)methane	< 330.
2,4-Dichlorophenol	< 330.
1,2,4-Trichlorobenzene	< 330.
Naphthalene	< 330.
4-Chloroaniline	< 670.
Hexachlorobutadiene	< 330.
4-Chloro-3-methylphenol	< 670.
2-Methylnaphthalene	< 330.
Hexachlorocyclopentadiene	< 330.
2,4,6-Trichlorophenol	< 330.
2,4,5-Trichlorophenol	< 330.
2-Chloronaphthalene	< 330.
2-Nitroaniline	< 1700
Dimethyl phthalate	< 330.
Acenaphthylene	< 330.
2,6-Dinitrotoluene	< 330.
3-Nitroaniline	< 1700
Acenaphthene	< 330.
2,4-Dinitrophenol	< 1700
4-Nitrophenol	< 1700
Dibenzofuran	< 330.
2,4-Dinitrotoluene	< 330.
Diethyl phthalate	< 330.
4-Chlorophenyl phenyl ether	< 330.
Fluorene	< 330.
4-Nitroaniline	< 1700
4,6-Dinitro-2-methylphenol	< 1700

NEI/GTEL Client ID: FWH03FWH03
Login Number: W7040160
Project ID (number): DOIIWAD3 POL PHASEII
Project ID (name): HAFB/DOII WAD3/HOLLOMAN/NM

QUALITY CONTROL RESULTS

Semivolatile Organics
Method: EPA 8270B
Matrix: Solids

Method Blank Results

N-Nitrosodiphenylamine	< 330.
4-Bromophenyl phenyl ether	< 330.
Hexachlorobenzene	< 330.
Pentachlorophenol	< 1700
Phenanthrene	< 330.
Anthracene	< 330.
Carbazole	< 330.
Di-n-butyl phthalate	< 330.
Fluoranthene	< 330.
Pyrene	< 330.
Butyl benzyl phthalate	< 330.
3,3'-Dichlorobenzidine	< 670.
Benzo[a]anthracene	< 330.
Chrysene	< 330.
bis(2-Ethyl hexyl) phthalate	< 330.
Di-n-octyl phthalate	< 330.
Benzo[b]fluoranthene	< 330.
Benzo[k]fluoranthene	< 330.
Benzo[a]pyrene	< 330.
Indeno[1,2,3-cd]pyrene	< 330.
Dibenzo[a,h]anthracene	< 330.
Benzo[g,h,i]perylene	< 330.

Notes:

NEI/GTEL Client ID: FWH03FWH03 QUALITY CONTROL RESULTS
Login Number: W7040160 Semivolatile Organics
Project ID (number): DOIIWAD3 POL PHASEII Method: EPA [illegible]0B
Project ID (name): HAFB/DOII WAD3/HOLLOMAN/NM Matrix: [illegible]ds

Matrix Spike(MS) and Matrix Spike Duplicate(MSD) Results

GTEL Sample ID:W7040160-09 MS ID:MS04016009 MSD ID:MD04016009
Analysis Date: 16-APR-97 16-APR-97 16-APR-97

Units: ug/kg	Sample	Spikes Added		MS	MS	MSD	MSD		Acceptability Limits	
Analyte	Conc.	MS	MSD	Conc.	% Rec.	Conc.	% Rec.	RPD	RPD	%Rec.
Phenol	< 330.(0.000)	6560	6560	4020	61.3	4330	66.0	7.40	35	26-90
2-Chlorophenol	< 330.(0.000)	6560	6560	4050	61.7	4390	66.9	8.10	50	25-102
1,4-Dichlorobenzene	< 330.(0.000)	3280	3280	2080	63.4	2240	68.3	7.40	27	28-104
N-Nitrosodi-n-propylamine	< 330.(0.000)	3280	3280	2070	63.1	2270	69.2	9.20	38	41-126
1,2,4-Trichlorobenzene	< 330.(0.000)	3280	3280	2280	69.5	2420	73.8	6.00	23	38-107
4-Chloro-3-methylphenol	< 330.(0.000)	6560	6560	4430	67.5	4750	72.4	7.00	33	26-103
Acenaphthene	< 330.(0.000)	3280	3280	2230	68.0	2430	74.1	8.60	19	31-137
4-Nitrophenol	< 1700(0.000)	6560	6560	3480	53.0	4140	63.1	17.4	50	11-114
2,4-Dinitrotoluene	< 330.(0.000)	3280	3280	2090	63.7	2270	69.2	8.30	47	28-89
Pentachlorophenol	< 1700(0.000)	6560	6560	3710	56.6	4220	64.3	12.7	47	17-109
Pyrene	< 330.(0.000)	3280	3280	2060	62.8	2240	68.3	8.40	36	35-142

Notes:

Values in parentheses in the sample concentration column are used for % recovery calculations.

Acceptability limits are derived from USEPA Contract Laboratory Program (CLP) requirements: Statement of Work (SOW) for organic analysis OLM02.0 and OLM02.1.

NEI/GTEL Client ID: FWH03FWH03
Login Number: W7040160
Project ID (number): DOIIWAD3 POL PHASEII
Project ID (name): HAFB/DOII WAD3/HOLLOMAN/NM

QUALITY CONTROL RESULTS

Semivolatile Organics
Method: EPA 8270B
Matrix: Solids

Laboratory Control Sample (LCS) and Laboratory Control Duplicate Results

Analyte	Spike Amount	LCS Concentration	LCS Recovery, %	LCS Duplicate Concentration	LCS Duplicate Recovery, %	RPD, %	Acceptability Limits RPD, %	Acceptability Limits Recovery, %
EPA 8270B Units: ug/kg		QC Batch:041497BNAS-3						
Phenol	6670	4010	61.9	3920	59.8	3.45	35	26- 90%
2-Chlorophenol	6670	4060	62.7	4050	61.7	1.61	50	25-102%
1,4-Dichlorobenzene	3330	2110	65.1	2080	63.4	2.65	27	28-104%
N-Nitrosodi-n-propylamine	3330	2150	66.4	2080	63.4	4.62	38	41-126%
1,2,4-Trichlorobenzene	3330	2230	68.8	2210	67.4	2.06	23	38-107%
4-Chloro-3-methylphenol	6670	4350	67.1	4310	65.7	2.11	33	26-103%
Acenaphthene	3330	2280	70.4	2230	68.0	3.47	19	31-137%
4-Nitrophenol	6670	3500	54.0	3490	53.2	1.49	50	11-114%
2,4-Dinitrotoluene	3330	2130	65.7	2140	65.2	0.764	47	28- 89%
Pentachlorophenol	6670	4090	63.1	4050	61.7	2.24	47	17-109%
Pyrene	3330	2110	65.1	2160	65.9	1.22	36	35-142%

Notes:
Acceptability limits are derived from USEPA Contract Laboratory Program (CLP) requirements; Statement of Work (SOW) for organic analysis OLM02.0 and OLM02.1.

ANALYTICAL RESULTS
Results For Multiple Methods

NEI/GTEL Client ID: FWH03FWH03
Login Number: W7040160
Project ID (number): DOIIWAD3 POL PHASEII
Project ID (name): HAFB/DOII WAD3/HOLLOMAN/NM

Method: See Below
Matrix: Solids

	NEI/GTEL Sample Number	W7040160-05	--	--	--
	Client ID	SWMU08-SP1	--	--	--
	Date Sampled	04/09/97	--	--	--
EPA 6010A	Date Prepared	04/11/97	--	--	--
EPA 6010A	Date Analyzed	04/14/97	--	--	--
EPA 6010A	Dilution Factor	1.00	--	--	--
EPA 7421	Date Prepared	04/11/97	--	--	--
EPA 7421	Date Analyzed	04/14/97	--	--	--
EPA 7421	Dilution Factor	1.00	--	--	--
EPA 7471A	Date Prepared	04/11/97	--	--	--
EPA 7471A	Date Analyzed	04/12/97	--	--	--
EPA 7471A	Dilution Factor	0.100	--	--	--

Analyte		Reporting Limit	Units	Concentration:Dry Weight			
Inorganics (MT, WC)							
Arsenic	EPA 6010A	40.	mg/kg	< 40.	--	--	--
Barium	EPA 6010A	20.	mg/kg	27.	--	--	--
Cadmium	EPA 6010A	2.0	mg/kg	< 2.0	--	--	--
Chromium	EPA 6010A	3.0	mg/kg	< 3.0	--	--	--
Lead	EPA 7421	0.40	mg/kg	2.1	--	--	--
Mercury	EPA 7471A	0.25	mg/kg	< 0.25	--	--	--
Selenium	EPA 6010A	20.	mg/kg	< 20.	--	--	--
Silver	EPA 6010A	2.0	mg/kg	< 2.0	--	--	--
Percent Solids	--	--	%	76.3	--	--	--

Notes:

Dilution Factor:

Dilution factor indicates the adjustments made for sample dilution.

EPA 6010A, EPA 7421:

Digestion by EPA Method 3050A.

EPA 6010A, EPA 7421, EPA 7471A:

"Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW-846, Third Edition including Update 2.

Project Number: DOIIWAD3 POL PhaseII
Project Name: HAFB DOII WAD3 Holloman, NM
Work Order Number: W7-04-0160
Date Reported: 04-15-97

QA NONCONFORMANCE SUMMARY

1.0 Sample Handling

1.1 Sample handling and holding time criteria were not met for zero samples.

2.0 Initial Calibration Verification

2.1 The validity for the calibration verification was exceeded for zero samples as shown in Table 2.

3.0 Method Blanks

3.1 Zero target elements were found in the method blank as shown in Table 3.

4.0 Matrix Spike (MS) Accuracy

4.1 The recovery limits were exceeded in the matrix and matrix spike duplicate for two elements as shown in Tables 4A and 4B.

4.2 The recovery limits were exceeded for lead in the matrix spike and matrix spike duplicate due to sample heterogeneity.

4.3 The recovery limits were exceeded for mercury in the matrix spike and the matrix spike duplicate due to sample heterogeneity

5.0 Sample Duplicate Precision

5.1 The maximum percent difference (RPD) was exceeded for one element in the matrix spike and matrix spike duplicate samples as shown in Tables 4A and 4B.

5.2 The maximum percent difference for lead was exceeded in the matrix spike and the matrix spike duplicate due to sample heterogeneity.

6.0 Laboratory Control Sample

6.1 The recovery limits were not met for zero elements for the laboratory control samples as shown in Table 5.

Project Number: DOIIWAD3 POL PhaseII
Project Name: HAFB DOII WAD3 Holloman, NM
Work Order Number: W7-04-0160
Date Reported: 04-15-97

Table 2
INITIAL CALIBRATION VERIFICATION QC CHECK SAMPLE REPORT
Metals in Soil

Analyte	Expected Result, mg/L	Observed Result, mg/L	Recovery, %	Acceptability Limits, %[a]
Arsenic	1.01	1.02	101	90-110
Barium	1.00	1.00	100	90-110
Cadmium	1.00	1.01	101	90-110
Chromium	1.00	0.994	99.4	90-110
Lead	0.020	0.0201	100	90-110
Mercury	0.00400	0.00386	96.5	90-110
Selenium	1.00	1.02	102	90-110
Silver	0.500	0.510	102	90-110

a Acceptability limits as per EPA Contract Laboratory Program

Table 3
BLANK REPORT
Metals in Soil

Analyte	Initial Calibration Blank, mg/L	Preparation Blank, mg/Kg
Arsenic	<0.40	<40.0
Barium	<0.20	<20.0
Cadmium	<0.020	<2.00
Chromium	<0.030	<3.00
Lead	<0.004	<0.40
Mercury	<0.001	<0.10
Selenium	<0.20	<20.0
Silver	<0.020	<2.00

<# Not detected at the indicated detection limit(#)

Project Number: DOIIWAD3 POL PhaseII
Project Name: HAFB DOII WAD3 Holloman, NM
Work Order Number: W7-04-0160
Date Reported: 04-15-97

Table 4A
MATRIX SPIKE AND MATRIX SPIKE DUPLICATE SUMMARY
Metals in Soil

Sample Spiked: W7040143-09

Analyte	Spike Added, mg/Kg	Sample Concentration, mg/Kg	MS Concentration, mg/Kg	MS Percent Recovery	Acceptability Limits, %[a]
Arsenic	294.	0.419	278.	94.6	80-120
Barium	294.	16.3	285.	97.0	80-120
Cadmium	149	0.036	134.	90.0	80-120
Chromium	294	3.14	255.	85.8	80-120
Lead	1.33	1.98	2.68	52.5[b]	80-120
Mercury	0.298	0.00	0.212	71.0[b]	75-125
Selenium	294	2.80	290.	98.7	80-120
Silver	58.8	0.00	49.3	83.9	80-120

a Acceptability limits as per EPA Contract Laboratory Program.

b Value is outside of acceptability limits.

NA Not applicable; sample result greater than four times spike amount.

Table 4B

MATRIX SPIKE AND MATRIX SPIKE DUPLICATE SUMMARY
Metals in Soil

Analyte	Spike Added, mg/Kg	MSD Concentration, mg/Kg	MSD Percent Recovery	RPD %	Acceptability Limits, %[a]	
					RPD	% Recovery
Arsenic	329.	312.	94.8	0.45	20.0	80-120
Barium	329.	305.	92.7	3.96	20.0	80-120
Cadmium	166.	149.	89.8	0.084	20.0	80-120
Chromium	329.	286.	86.9	0.713	20.0	80-120
Lead	1.59	2.59	38.4	30.9[b]	20.0	80-120
Mercury	0.270	0.188	69.6	2.08	20.0	75-125
Selenium	329.	325.	98.8	0.382	20.0	80-120
Silver	65.6	47.8	72.9	14.0	20.0	80-120

a Acceptability limits as per EPA Contract Laboratory Program.
NA Not applicable; sample result greater than four times spike amount.

Project Number: DOIIWAD3 POL PhaseII
Project Name: HAFB DOII WAD3 Holloman, NM
Work Order Number: W7-04-0160
Date Reported: 04-15-97

Table 5

LABORATORY CONTROL SAMPLE RESULTS
Metals in Soil

Analyte	Expected Result, mg/Kg	Observed Result, mg/Kg	Recovery, %	Acceptability Limits, %[a]
Arsenic	400.	376.	94.0	80-120
Barium	400.	372.	93.0	80-120
Cadmium	202.	185.	91.6	80-120
Chromium	400.	382.	95.6	80-120
Lead	2.00	1.95	97.5	80-120
Mercury	0.333	0.271	81.4	75-125
Selenium	400.	377.	94.3	80-120
Silver	80.0	71.6	89.5	80-120

a Acceptability limits established by laboratory practice

ANALYTICAL RESULTS
Volatile Organics

NEI/GTEL Client ID: FWH03FWH03
Login Number: W7040160
Project ID (number): DOIIWAD3 POL PHASEII
Project ID (name): HAFB/DOII WAD3/HOLLOMAN/NM

Method: EPA 8021A
Matrix: Solids

NEI/GTEL Sample Number	W7040160-05	--	--	--
Client ID	SWMU08-SP1	--	--	--
Date Sampled	04/09/97	--	--	--
Date Analyzed	04/14/97	--	--	--
Dilution Factor	1.00	--	--	--

Analyte	Reporting Limit	Units	Concentration:Dry Weight			
Benzene	0.05	mg/kg	< 0.05	--	--	--
Toluene	0.10	mg/kg	< 0.10	--	--	--
Ethylbenzene	0.10	mg/kg	< 0.10	--	--	--
Xylenes (total)	0.20	mg/kg	< 0.20	--	--	--
Percent Solids	--	%	76.3	--	--	--

Notes:

Dilution Factor:

Dilution factor indicates the adjustments made for sample dilution.

EPA 8021A:

EPA 8021A: "Test Methods for Evaluating Solid Waste, Physical and Chemical Methods", SW-846, Third Edition, Revision 1, US EPA September 1994.

NEI/GTEL Client ID: FWH03FWH03 QUALITY CONTROL RESULTS
Login Number: W7040160 Volatile Organics
Project ID (number): DOIIWAD3 POL PHASEII Method: EPA 8021A
Project ID (name): HAFB/DOII WAD3/HOLLOMAN/NM Matrix: So

Surrogate Results

QC Batch No.	Reference	Sample ID	TFT	BFB
Method: EPA 8021A		Acceptability Limits:	70-130%	70-130%
041397GC5-10	LS04139751	Laboratory control	103.	106.
041397GC5-11	LSD04139751	LCS Soil Duplicate	102.	105.
041397GC5-8	CV04139751	Calibration Verifi	115.	98.3
041397GC5-9	BS04139751	Method Blank Soil	103.	88.4
--	04016005	SWMU08-SP1	98.8	85.1

Notes:
*: Indicates values outside of acceptability limits. See Nonconformance Summary.

NEI/GTEL Client ID: FWH03FWH03 QUALITY CONTROL RESULTS
Login Number: W7040160 Volatile Organics
Project ID (number): DOIIWAD3 POL PHASEII Method: EPA 8021A
Project ID (name): HAFB/DOII WAD3/HOLLOMAN/NM Matrix: Solids

Method Blank Results

QC Batch No: 041397GC5-9
Date Analyzed: 14-APR-97

Analyte	Method:EPA 8021A	Concentration: mg/kg
Benzene	< 0.0500	
Toluene	< 0.100	
Ethylbenzene	< 0.100	
Xylenes (Total)	< 0.200	

Notes:

NEI/GTEL Client ID: FWH03FWH03 QUALITY CONTROL RESULTS
Login Number: W7040160 Volatile Organics
Project ID (number): DOIIWAD3 POL PHASEII Method: EPA 80[illegible]
Project ID (name): HAFB/DOII WAD3/HOLLOMAN/NM Matrix: So

Calibration Verification Sample Summary

Analyte	Spike Amount	Check Sample Concentration	QC Percent Recovery	Acceptability Limits Recovery
EPA 8021A Units:ug/L	QC Batch:041397GC5-8			
Benzene	20.0	17.9	89.5	85-115%
Toluene	20.0	17.5	87.5	85-115%
Ethylbenzene	20.0	17.7	88.5	85-115%
Xylenes (Total)	60.0	52.2	87.0	85-115%

Notes:

NEI/GTEL Client ID: FWH03FWH03 QUALITY CONTROL RESULTS
Login Number: W7040160 Volatile Organics
Project ID (number): DOIIWAD3 POL PHASEII Method: EPA 8021A
Project ID (name): HAFB/DOII WAD3/HOLLOMAN/NM Matrix: Solids

Laboratory Control Sample (LCS) and Laboratory Control Duplicate Results

Analyte	Spike Amount	LCS Concentration	LCS Recovery, %	LCS Duplicate Concentration	LCS Duplicate Recovery, %	RPD, %	Acceptability Limits RPD, %	Acceptability Limits Recovery, %
EPA 8021A Units: mg/kg	QC Batch:041397GC5-11							
Benzene	5.00	5.65	113.	5.71	114.	0.881	28.3	80-120%
Toluene	5.00	5.72	114.	5.76	115.	0.873	30	80-120%
Ethylbenzene	5.00	5.81	116.	5.85	117.	0.858	30	80-120%
Xylenes (Total)	15.0	16.4	109.	16.5	110.	0.913	30	80-120%

Notes:

NEI/GTEL Client ID: FWH03FWH03 QUALITY CONTROL RESULTS
Login Number: W7040160 Volatile Organics
Project ID (number): DOIIWAD3 POL PHASEII Method: EPA 8021A
Project ID (name): HAFB/DOII WAD3/HOLLOMAN/NM Matrix: So

Conformance/Non-Conformance Summary

(X = Requirements Met * = See Comments -- = Not Required NA = Not Applicable)

Conformance Item	Volatile Organics	Semi-Volatile Organics	Inorganics (MT, WC)
GC/MS Tune	--	--	NA
Initial Calibration	--	--	--
Continuing Calibration	X	--	--
Surrogate Recovery	X	--	NA
Holding Time	X	--	--
Method Accuracy	X	--	--
Method Precision	--	--	--
Blank Contamination	X	--	--

Comments:

NEI/GTEL
ENVIRONMENTAL LABORATORIES, INC.

Midwest Region
4211 May Avenue
Wichita, KS 67209
(316) 945-2624
(800) 633-7936
(316) 945-0506 (FAX)

Date: 4/15/97

Work Order Number: W7040160

Company Name: Foster Wheeler

Attention: Dan Holmquist

The following facsimile is partial analytical results for samples received by NEI/GTEL Environmental Laboratories, Inc. The rest of the analytical results will follow under a separate cover letter.

A formal quality control/quality assurance program is maintained by NEI/GTEL, which is designed to meet or exceed the EPA requirements. Analytical work for this project met QA/QC criteria unless otherwise stated in the footnotes.

If you have any questions concerning this analysis, or if we can be of further assistance, please call your Customer Service Representative.

Sincerely,

Customer Service Manager for

Terry R. Loucks
General Manager

GTEL Wichita, KS
FAXPART.CL

ANALYTICAL RESULTS
Total Petroleum Hydrocarbons

NEI/GTEL Client ID: FWH03FWH03
Login Number: W7040160
Project ID (number): DOIIWAD3 POL PHASEII
Project ID (name): HAFB/DOII WAD3/HOLLOMAN/NM

Method: EPA 418.1
Matrix: Solids

NEI/GTEL Sample Number	W7040160-01	W7040160-02	W7040160-03	W7040160-04
Client ID	SWMU08-01-06	SWMU08-02-06	SWMU08-03-06	SWMU08-04-06
Date Sampled	04/09/97	04/09/97	04/09/97	04/09/97
Date Prepared	04/14/97	04/14/97	04/14/97	04/14/97
Date Analyzed	04/15/97	04/15/97	04/15/97	04/15/97
Dilution Factor	1.00	1.00	1.00	1.00

Analyte	Reporting Limit	Units	Concentration:Dry Weight			
Total Petroleum Hydrocarbons	20.	mg/kg	78.	< 20.	58.	25.
Percent Solids	--	%	71.7	66.3	78.2	83.2

Notes:

Dilution Factor:

Dilution factor indicates the adjustments made for sample dilution.

EPA 418.1:

Extraction is modified for soils by using EPA Method 9071 (soxhlet extraction). "Methods for Chemical Analysis of Water and Wastes", EPA 600/4-79-020, USEPA EMSL, Cincinnati, OH, Revised, March 1983.

ANALYTICAL RESULTS
Total Petroleum Hydrocarbons

NEI/GTEL Client ID: FWH03FWH03
Login Number: W7040160
Project ID (number): DOIIWAD3 POL PHASEII
Project ID (name): HAFB/DOII WAD3/HOLLOMAN/NM

Method: EPA 418.1
Matrix: Solids

NEI/GTEL Sample Number	W7040160-05	--	--	--
Client ID	SWMU08-SP1	--	--	--
Date Sampled	04/09/97	--	--	--
Date Prepared	04/14/97			
Date Analyzed	04/15/97	--	--	--
Dilution Factor	1.00	--	--	--

Analyte	Reporting Limit	Units	Concentration:Dry Weight			
Total Petroleum Hydrocarbons	20.	mg/kg	36.	--	--	--
Percent Solids	--	%	76.3	--	--	--

Notes:

Dilution Factor:

Dilution factor indicates the adjustments made for sample dilution.

EPA 418.1:

Extraction is modified for soils by using EPA Method 9071 (soxhlet extraction). "Methods for Chemical Analysis of Water and Wastes", EPA 600/4-79-020, USEPA EMSL, Cincinnati, OH, Revised, March 1983.

NEI/GTEL Client ID: FWH03FWH03

QUALITY CONTROL RESULTS

Login Number: W7040160

Project ID (number): DOIIWAD3 POL PHASEII

Project ID (name): HAFB/DOII WAD3/HOLLOMAN/NM

Total Petroleum Hydrocarbons
Method: EPA 418.1
Matrix: Solids

Method Blank Results

QC Batch No: 041497IRSX-1
Date Analyzed: 15-APR-97

Analyte	Method:EPA 418.1	Concentration: mg/kg
Total Petroleum Hydrocarbons	< 20.0	

Notes:

NEI/GTEL Client ID: FWH03FWH03
Login Number: W7040160
Project ID (number): DOIIWAD3 POL PHASEII
Project ID (name): HAFB/DOII WAD3/HOLLOMAN/NM

QUALITY CONTROL RESULTS

Total Petroleum Hydrocarbons
Method: EPA 41
Matrix: So

Calibration Verification Sample Summary

Analyte	Spike Amount	Check Sample Concentration	QC Percent Recovery	Acceptability Limits Recovery
EPA 418.1 Units:mg/L	QC Batch:041497IRSX-6			
Total Petroleum Hydrocarbons	5.00	5.29	106.	90-110%

Notes:

NEI/GTEL Client ID: FWH03FWH03 QUALITY CONTROL RESULTS
Login Number: W7040160 Total Petroleum Hydrocarbons
Project ID (number): DOIIWAD3 POL PHASEII Method: EPA 418.1
Project ID (name): HAFB/DOII WAD3/HOLLOMAN/NM Matrix: Solids

Matrix Spike(MS) and Matrix Spike Duplicate(MSD) Results

GTEL Sample ID:W7040160-05 MS ID:MS04016005 MSD ID:MD04016005
Analysis Date: 15-APR-97 15-APR-97 15-APR-97

Units: mg/kg	Sample	Spikes Added		MS	MS	MSD	MSD		Acceptability Limits	
Analyte	Conc.	MS	MSD	Conc.	% Rec.	Conc.	% Rec.	RPD	RPD	%Rec.
Total Petroleum Hydrocarbons	27. (27.2)	150	150	184.	105.	192.	110.	4.70	50	42-141

Notes:
Values in parentheses in the sample concentration column are used for % recovery calculations.
The accuracy limits are for a fuel oil #2 spike when the calibration is based on the standard reference oil.

NEI/GTEL Client ID: FWH03FWH03 QUALITY CONTROL RESULTS
Login Number: W7040160 Total Petroleum Hydrocarbons
Project ID (number): DOIIWAD3 POL PHASEII Method: EPA 4
Project ID (name): HAFB/DOII WAD3/HOLLOMAN/NM Matrix: So

Laboratory Control Sample (LCS) and Laboratory Control Duplicate Results

Analyte	Spike Amount	LCS Concentration	LCS Recovery, %	LCS Duplicate Concentration	LCS Duplicate Recovery, %	RPD, %	Acceptability Limits RPD, %	Recovery, %
EPA 418.1 Units: mg/kg QC Batch:041497IRSX-3								
Total Petroleum Hydrocarbons	150.	178.	119.	172.	115.	3.42	50	42-141%

Notes:
The accuracy limits are for a fuel oil #2 spike when the calibration is based on the standard reference oil.

NEI/GTEL Client ID: FWH03FWH03 QUALITY CONTROL RESULTS
Login Number: W7040160 Total Petroleum Hydrocarbons
Project ID (number): DOIIWAD3 POL PHASEII Method: EPA 418.1
Project ID (name): HAFB/DOII WAD3/HOLLOMAN/NM Matrix: Solids

Conformance/Non-Conformance Summary

(X = Requirements Met * = See Comments -- = Not Required NA = Not Applicable)

Conformance Item	Volatile Organics	Semi-Volatile Organics	Inorganics (MT, WC)
GC/MS Tune	--	--	NA
Initial Calibration	--	--	--
Continuing Calibration	--	X	--
Surrogate Recovery	--	--	NA
Holding Time	--	X	--
Method Accuracy	--	X	--
Method Precision	--	X	--
Blank Contamination	--	X	--

Comments:

APPENDIX B

SWMU 123

NEI/GTEL
ENVIRONMENTAL LABORATORIES, INC.

Midwest Region
4211 May Avenue
Wichita, KS 67209
(316) 945-2624
(800) 633-7936
(316) 945-0506 (FAX)

April 21, 1997

Dan Holmquist
Foster Wheeler Environmental Corporation
241 Arkansas St. /Behind Rv Storage
Holloman A F B, NM 88330

RE:	NEI/GTEL Client ID:	FWH03FWH03
	Login Number:	W7040143
	Project ID (number):	DOIIWAD3 POL PHASEII
	Project ID (name):	HAFB/DOII WAD3/HOLLOMAN/NM

Dear Dan Holmquist:

Enclosed please find the analytical results for the samples received by NEI/GTEL Environmental Laboratories, Inc. on 04/10/97 under Chain-of-Custody Number(s) 45904.

A formal Quality Assurance/Quality Control (QA/QC) program is maintained by NEI/GTEL, which is designed to meet or exceed the EPA requirements. Analytical work for this project met QA/QC criteria unless otherwise stated in the footnotes. This report is to be reproduced only in full.

NEI/GTEL is certified by the U.S. Army Corp of Engineers Laboratory Validation, expiration date March 18, 1997.

If you have any questions regarding this analysis, or if we can be of further assistance, please call our Customer Service Representative.

Sincerely,
NEI/GTEL Environmental Laboratories, Inc.

Customer Service Manager

Terry R. Loucks
Laboratory Director

RECEIVED APR 2 3 1997

ANALYTICAL RESULTS
Results For Multiple Methods

NEI/GTEL Client ID: FWH03FWH03
ogin Number: W7040143
oject ID (number): DOIIWAD3 POL PHASEII
Project ID (name): HAFB/DOII WAD3/HOLLOMAN/NM

Method: See Below
Matrix: Solids

	NEI/GTEL Sample Number	W7040143-09	W7040143-10	--	--
	Client ID	SWMU123-SP1	SWMU123-SP2	--	--
	Date Sampled	04/08/97	04/08/97	--	--
EPA 6010A	Date Prepared	04/11/97	04/11/97	--	--
EPA 6010A	Date Analyzed	04/14/97	04/14/97	--	--
EPA 6010A	Dilution Factor	1.00	1.00	--	--
EPA 7421	Date Prepared	04/11/97	04/11/97	--	--
EPA 7421	Date Analyzed	04/14/97	04/14/97	--	--
EPA 7421	Dilution Factor	1.00	1.00	--	--
EPA 7471A	Date Prepared	04/11/97	04/11/97	--	--
EPA 7471A	Date Analyzed	04/12/97	04/12/97	--	--
EPA 7471A	Dilution Factor	0.100	0.100	--	--

Analyte		Reporting Limit	Units	Concentration:Dry Weight			
Inorganics (MT, WC)							
Arsenic	EPA 6010A	40.	mg/kg	< 40.	< 40.	--	--
Barium	EPA 6010A	20.	mg/kg	**22.**	**36.**	--	--
Cadmium	EPA 6010A	2.0	mg/kg	< 2.0	< 2.0	--	--
Chromium	EPA 6010A	3.0	mg/kg	**4.2**	< 3.0	--	--
Lead	EPA 7421	0.40	mg/kg	**2.7**	**2.1**	--	--
Mercury	EPA 7471A	0.25	mg/kg	< 0.25	< 0.25	--	--
lenium	EPA 6010A	20.	mg/kg	< 20.	< 20.	--	--
ilver	EPA 6010A	2.0	mg/kg	< 2.0	< 2.0	--	--
Percent Solids	--		%	74.1	72.9	--	--

Notes:

Dilution Factor:

Dilution factor indicates the adjustments made for sample dilution.

EPA 6010A, EPA 7421:

Digestion by EPA Method 3050A.

EPA 6010A, EPA 7421, EPA 7471A:

"Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW-846, Third Edition including Update 2.

W7040143-09:

The matrix spike and matrix spike duplicate exceeded acceptable recovery limits for lead and mercury due to sample hetergeniety.

Project Number: DOIIWAD3 POL PHASEII
Project ID Name: HAFB
DOII WAD3
Holloman, NM
Work Order Number: W7-04-0143
Date Reported: 04-18-97

QA NONCONFORMANCE SUMMARY

Metals in Soil

1.0 Sample Handling

1.1 Sample handling and holding time criteria were not met for zero samples.

2.0 Initial Calibration Verification

2.1 The validity for the calibration verification was exceeded for zero samples as shown in Table 2.

3.0 Method Blanks

3.1 Zero target elements were found in the method blank as shown in Table 3.

4.0 Matrix Spike (MS) Accuracy

4.1 The recovery limits were exceeded in the matrix spike sample for two elements as shown in Table 4A.

4.2 Recovery limits were exceeded for lead in the matrix spike sample due to sample heterogeneity.

4.3 Recovery limits were exceeded for mercury in the matrix spike sample due to sample heterogeneity.

4.4 The LCS and LCS duplicate were within control limits for lead and mercury as shown in Table 5.

5.0 Sample Duplicate Precision

5.1 The maximum percent difference (RPD) was exceeded for one element in the matrix spike and matrix spike duplicate samples as shown in Table 4A and 4B.

5.2 The maximum percent difference (RPD) was exceeded for lead due to sample heterogeneity.

6.0 Laboratory Control Sample

6.1 The recovery limits were not met for zero elements for the laboratory control samples as shown in Table 5.

Project Number: DOIIWAD3 POL PHASEII
Project ID Name: HAFB
DOII WAD3
Holloman, NM
Work Order Number: W7-04-0143
Date Reported: 04-18-97

Table 2

INITIAL CALIBRATION VERIFICATION QC CHECK SAMPLE REPORT

Metals in Soil

Analyte	Expected Result, mg/L	Observed Result, mg/L	Recovery, %	Acceptability Limits, %[a]
Arsenic	1.00	1.02	102	90-110
Barium	1.00	1.00	100	90-110
Cadmium	1.00	1.01	101	90-110
Chromium	1.00	0.994	99.4	90-110
Lead	0.0200	0.0201	100	90-110
Mercury	0.00400	0.00386	96.5	90-110
Selenium	1.00	1.02	102	90-110
Silver	0.500	0.510	102	90-110

a Acceptability limits as per EPA Contract Laboratory Program

Project Number: DOIIWAD3 POL PHASEII
Project ID Name: HAFB
DOII WAD3
Holloman, NM
Work Order Number: W7-04-0143
Date Reported: 04-18-97

Table 3

BLANK REPORT

Metals in Soil

Analyte	Initial Calibration Blank, mg/L	Preparation Blank, mg/Kg
Arsenic	<0.40	<40
Barium	<0.20	<20
Cadmium	<0.020	<2.0
Chromium	<0.030	<3.0
Lead	<0.0040	<4.0
Mercury	<0.0025	<0.25
Selenium	<0.20	<20
Silver	<0.020	<2.0

<# Not detected at the indicated detection limit (#)

Project Number: DOIIWAD3 POL PHASEII
Project ID Name: HAFB
DOII WAD3
Holloman, NM
Work Order Number: W7-04-0143
Date Reported: 04-18-97

Table 4A

MATRIX SPIKE AND MATRIX SPIKE DUPLICATE SUMMARY

Metals in Soil

Sample Spiked: Method 6010A W7040143-09
Sample Spiked: Method 7421 W7040143-09
Sample Spiked: Method 7471A W7040143-09

Analyte	Spike Added, mg/Kg	Sample Concentration, mg/Kg	MS Concentration, mg/Kg	MS Percent Recovery	Acceptability Limits, %[a]
Arsenic	294	<40.0	278	94.5	80-120
Barium	294	<20.0	285	97.0	80-120
Cadmium	149	<2.00	134	90.0	80-120
Chromium	147	3.14	255	86.0	80-120
Lead	1.33	1.98	2.68	52.5[b]	75-125
Mercury	0.299	<0.0025	0.212	71.0[b]	75-125
Selenium	294	<20.0	290	98.5	80-120
Silver	58.8	<2.0	49.3	84.0	80-120

a Acceptability limits as per EPA Contract Laboratory Program.

b Value is outside of acceptability limits.

NA Not applicable; initial sample concentration greater than four times the spike amount.

Table 4B

MATRIX SPIKE AND MATRIX SPIKE DUPLICATE SUMMARY

Metals in Soil

Analyte	Spike Added, mg/Kg	MSD Concentration, mg/Kg	MSD Percent Recovery	RPD %	Acceptability Limits, %[a]
					RPD
Arsenic	328	312	95.0	0.450	20.0
Barium	328	305	93.0	3.96	20.0
Cadmium	166	149	90.0	0.0840	20.0
Chromium	328	286	86.5	0.713	20.0
Lead	1.59	2.59	38.4	30.9[b]	20.0
Mercury	0.270	0.188	69.6	2.08	20.0
Selenium	328	325	99.0	0.382	20.0
Silver	65.6	47.8	73.0	14.0	20.0

a Acceptability limits as per EPA Contract Laboratory Program.

b Value is outside of acceptability limits.

NA Not applicable; initial sample concentration greater than four times the spike amount.

Project Number: DOIIWAD3 POL PHASEII
Project ID Name: HAFB
DOII WAD3
Holloman, NM
Work Order Number: W7-04-0143
Date Reported: 04-18-97

Table 5

LABORATORY CONTROL SAMPLE RESULTS

Metals in Soil

Analyte	Expected Result, mg/Kg	Observed Result, mg/Kg	Recovery, %	Acceptability Limits, %[a]
Arsenic	400	376	94.0	80-120
Barium	400	372	93.0	80-120
Cadmium	202	185	91.5	80-120
Chromium	400	383	96.0	80-120
Lead (LCS)	2.00	195	97.5	75-125
Lead (LCSD)	2.00	2.01	100	75-125
Mercury (LCS)	0.333	0.271	81.4	75-125
Mercury (LCSD)	0.333	0.283	84.9	75-125
Selenium	400	377	94.0	80-120
Silver	80.0	71.6	89.5	80-120

a Acceptability limits established by laboratory practice

ANALYTICAL RESULTS
Results For Multiple Methods

NEI/GTEL Client ID: FWH03FWH03
Login Number: W7040143
Project ID (number): DOIIWAD3 POL PHASEII
Project ID (name): HAFB/DOII WAD3/HOLLOMAN/NM

Method: See Below
Matrix: Solids

	NEI/GTEL Sample Number	W7040143-09	W7040143-10	--	--
	Client ID	SWMU123-SP1	SWMU123-SP2	--	--
	Date Sampled	04/08/97	04/08/97	--	--
ASTM D93	Date Analyzed	04/14/97	04/14/97	--	--
ASTM D93	Dilution Factor	1.00	1.00	--	--
EPA 9010A	Date Prepared	04/16/97	04/16/97	--	--
EPA 9010A	Date Analyzed	04/17/97	04/17/97	--	--
EPA 9010A	Dilution Factor	1.00	1.00	--	--
EPA 9045B	Date Analyzed	04/16/97	04/16/97	--	--
EPA 9045B	Dilution Factor	1.00	1.00	--	--
EPA SW 846, CH. 7	Date Prepared	04/15/97	04/15/97	--	--
EPA SW 846, CH. 7	Date Analyzed	04/15/97	04/15/97	--	--
EPA SW 846, CH. 7	Dilution Factor	1.00	1.00	--	--

Analyte		Reporting Limit	Units	Concentration:Dry Weight			
Inorganics (MT, WC)							
Total Cyanide	EPA 9010A	2.0	mg/kg	< 2.0	< 2.0	--	--
Flashpoint (Closed Cup)	ASTM D93	70.0	deg F	> 200.	> 200.	--	--
pH	EPA 9045B	0.	pH	7.4	7.4	--	--
Reactive Sulfide	EPA SW 846, CH.	25.	mg/kg	< 25.	< 25.	--	--
Percent Solids	--		%	74.1	72.9	--	--

Notes:

Dilution Factor:

Dilution factor indicates the adjustments made for sample dilution.

ASTM D93:

Annual Book of ASTM Standards, 1983 Revision.

EPA 9010A, EPA 9045B, EPA SW 846, CH. 7:

"Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW-846, Third Edition including Update 2.

W7040143-09:

Recovery limits were exceeded in the matrix spike and matrix spike duplicate for reactivity sulfide due to matrix interferences.

ANALYTICAL RESULTS
Paint Filter

NEI/GTEL Client ID: FWH03FWH03
'ngin Number: W7040143
ɔject ID (number): DOIIWAD3 POL PHASEII
Project ID (name): HAFB/DOII WAD3/HOLLOMAN/NM

Method: EPA 9095
Matrix: Solids

NEI/GTEL Sample Number	W7040143-09	W7040143-10	--	--
Client ID	SWMU123-SP1	SWMU123-SP2	--	--
Date Sampled	04/08/97	04/08/97	--	--
Date Analyzed	04/14/97	04/14/97	--	--
Dilution Factor	1.00	1.00	--	--

Analyte	Reporting Limit	Units	Concentration:Wet Weight			
Paint Filter Liquids Test	--	std	Not Present	Not Present	--	--
Percent Solids	--	%	74.1	72.9	--	--

Notes:

Dilution Factor:

Dilution factor indicates the adjustments made for sample dilution.

EPA 9095:

"Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW-846, Third Edition including Update 2.

Project ID (Number): DOIIWAD3 POL PHASEII
Project ID (Name): HAFB
DOII WAD3
Holloman, NM
Work Order Number: W7-04-0143
Date Reported: 04-18-97

QA NONCONFORMANCE SUMMARY

Inorganics

1.0 Sample Handling

1.1 Sample handling and holding time criteria were not met for zero samples.

2.0 Initial and Continuing Calibration Verification

2.1 The criteria for the calibration verification QC Check Sample was exceeded for zero samples as shown in Table 2.

3.0 Method Blanks

3.1 Zero target analytes were found in the method blank as shown in Table 3.

4.0 Matrix Spike (MS) Accuracy

4.1 The recovery limits were exceeded in the matrix spike for one analyte as shown in Table 4.

4.2 The recovery limits were exceeded in the matrix spike and matrix spike duplicate for reactivity sulfide due to matrix interferences. The LCS and LCS duplicate were within acceptability limits as shown in Table 6.

5.0 Matrix Spike Duplicate Precision

5.1 The maximum percent difference (RPD) was exceeded for zero analytes in the duplicate samples as shown in Table 5.

6.0 Laboratory Control Sample

6.1 The recovery limits were not met for zero analytes in the Laboratory Control Sample as shown in Table 6.

Table 2A

INITIAL CALIBRATION VERIFICATION QC CHECK SAMPLE REPORT

Inorganics

Analyte	Expected Result	Observed Result	Units	Recovery, %	Acceptability Limits, %[a]
Total Cyanide	0.192	0.197	mg/L	103	90-110
					90-110

a Acceptability limits established by laboratory practice.

Table 3

BLANK REPORT

Inorganics

Analyte	Initial Calibration Blank	Units	Preparation Blank	Units
Total Cyanide	<0.02	mg/L	<2.0	mg/Kg
Reactivity Sulfide	NA	mg/L	<25	mg/Kg

NA Not Applicable

Project ID (Number): DOIIWAD3 POL PHASEII
Project ID (Name): HAFB
DOII WAD3
Holloman, NM
Work Order Number: W7-04-0143
Date Reported: 04-18-97

Table 4

MATRIX SPIKE (MS) RECOVERY SUMMARY

Inorganics

Sample Spiked: W7040132-01

Analyte	MS Sample Result	Sample Result	Amount Added	Units	MS, % Recovery	Acceptability Limits, %[a]
Total Cyanide	18.5	<4.0	18.7	mg/Kg	98.7	80-120
Reactivity Sulfide	116	<25	502	mg/Kg	23.1[b]	60-140

a Acceptability limits established by laboratory practice.

b Indicates a value outside acceptability limits.

Table 5

MATRIX SPIKE DUPLICATE SAMPLE RESULTS
AND RELATIVE PERCENT DIFFERENCE (RPD) SUMMARY

Inorganics

Analyte	Matrix Spike Result	Matrix Spike Duplicate Result	Units	RPD, %	Maximum RPD, %[a]
Total Cyanide	98.7	87.6	%	11.9	20
Reactivity Sulfide	23.1	25.1	%	8.30	20

a Acceptability limits established by laboratory practice.

Table 6

LABORATORY CONTROL SAMPLE RESULTS

Inorganics

Analyte	Expected Result	Observed Result	Units	Recovery, %	Acceptability Limits, %[a]
Total Cyanide	19.7	17.7	mg/Kg	89.8	80-120
Reactivity Sulfide (LCS)	508	366	mg/Kg	72.1	60-140
Reactivity Sulfide (LCSD)	508	392	mg/Kg	77.2	60-140

a Acceptability limits established by laboratory practice.

Project ID (Number): DOIIWD3 POL PHASEII
Project ID (Name): HAFB
DOII WAD3
Holloman, NM
Work Order Number: W7-04-0143
Date Reported: 04-17-97

ANALYTICAL RESULTS

Volatile Organics in TCLP Leachate[a]
EPA Method 8240 Modified

	GTEL Sample Number	09	10		
	Client Identification	SWMU123SP 1	SWMW123SP 2		
	Date Sampled	04-08-97	04-08-97		
	Date Leached	04-14-97	04-14-97		
	Date Analyzed	04-16-97	04-16-97		
Analyte	Quantitation Limit, mg/L	Concentration, mg/L			
Benzene	0.050	<0.050	<0.050		
Carbon tetrachloride	0.050	<0.050	<0.050		
Chlorobenzene	0.050	<0.050	<0.050		
Chloroform	0.050	<0.050	<0.050		
1,2-Dichloroethane	0.050	<0.050	<0.050		
1,1-Dichloroethylene	0.050	<0.050	<0.050		
Methyl ethyl ketone	0.20	<0.20	<0.20		
Tetrachloroethylene	0.050	<0.050	<0.050		
Trichloroethylene	0.050	<0.050	<0.050		
Vinyl chloride	0.10	<0.10	<0.10		
Quantitation Limit Multiplier[b]		1	1		

a Test Methods for Evaluating Solid Waste, SW-846, Third Edition, Revision 0, US EPA, November 1986. This method is modified for megabore column use. TCLP is performed as per 40 CFR, Part 261, Appendix II-Method 1311. These data are presented in accordance with the Federal Register 57, p. 55114, November 24, 1992.

b The quantitation limit multiplier indicates the adjustments made to the data and detection limits for sample dilutions.

Project ID (Number): DOIIWD3 POL PHASEII
Project ID (Name): HAFB
DOII WAD3
Holloman, NM
Work Order Number: W7-04-0143
Date Reported: 04-17-97

QA NONCONFORMANCE SUMMARY

Volatile Organics in TCLP Leachate
EPA Method 8240 Modified

1.0 Sample Handling

1.1 Sample handling and holding time criteria were not met for 0 samples.

2.0 Surrogate Compound Recoveries

2.1 The recovery limits were exceeded for surrogate compounds in 0 samples as shown in Table 2.

3.0 Matrix Spike (MS) Accuracy

3.1 The recovery limits were exceeded in the matrix spike for 0 compounds as shown in Table 3.

4.0 Sample Duplicate Precision

4.1 The maximum percent difference (RPD) was exceeded for 0 compounds in the duplicate samples as shown in Table 3.

5.0 Method Blanks

5.1 Zero target compound(s) was/were found in the method blank as shown in Table 4.

Project ID (Number): DOIIWD3 POL PHASEII
Project ID (Name): HAFB
DOII WAD3
Holloman, NM
Work Order Number: W7-04-0143
Date Reported: 04-17-97

Table 2

SURROGATE RECOVERY SUMMARY

Volatile Organics in TCLP Leachate
EPA Method 8240 Modified

GTEL No.	Percent Recovery, %			
	S1 (TOL)	S2 (BFB)	S3 (DCE)	TOTAL OUT
TCLP041497F1	96.2	101	90.0	0
W704014309	97.7	104	92.9	0
W704014310	96.8	103	96.4	0
MS04014309	102	104	103	0
MD04014309	101	101	92.2	0
BMS041497	94.5	97.5	103	0
BMD041497	94.9	94.8	92.1	0

	Surrogates		Amount Spiked, ug/L	Recovery Limits[a]
S1	TOL	Toluene-d8	50	88-110
S2	BFB	Bromofluorobenzene	50	86-115
S3	DCE	1,2-Dichloroethane-d4	50	76-114

* Indicates values outside of acceptability limits.
a Acceptability limits are derived from USEPA Contract Laboratory Program (CLP) guidelines.
D Diluted out. Percent Recovery is not calculated when surrogate compound(s) are diluted out.

Project ID (Number): DOIIWD3 POL PHASEII
Project ID (Name): HAFB
DOII WAD3
Holloman, NM
Work Order Number: W7-04-0143
Date Reported: 04-17-97

Table 3

MATRIX SPIKE (MS) AND MATRIX SPIKE DUPLICATE (MSD) SUMMARY
PERCENT RECOVERY AND RELATIVE PERCENT DIFFERENCE (RPD)
Volatile Organics in TCLP Extract
Modified EPA Method 8240

Sample Spiked: MS04014309 Client ID: SWMU123SP1

Analyte	Spike Added, ug/L	Sample Concentration, ug/L	MS Concentration, ug/L	MS Percent Recovery	Acceptability Limits, %[a]
Vinyl Chloride	100.0	<10	68.9	68.9	10-251[1]
1,1-Dichloroethene	100.0	<5	76.5	76.5	61-145[5]
Chloroform	100.0	<5	91.7	91.7	51-138[1]
1,2-Dichloroethane	100.0	<5	99.6	99.6	49-155[1]
2-Butanone	100.0	<20	110.1	110.1	28-180[3]
Carbon Tetrachloride	100.0	<5	79.4	79.4	70-140[1]
Trichloroethene	100.0	<5	83.9	83.9	71-120[5]
Benzene	100.0	<5	92.2	92.2	76-127[1]
Tetrachloroethene	100.0	<5	76.3	76.3	64-148[1]
Chlorobenzene	100.0	<5	89.7	89.7	75-130[5]

Analyte	Spike Added, ug/L	MSD Concentration, ug/L	MSD Percent Recovery	RPD, %	Acceptability Limits	
					RPD	% Recovery
Vinyl Chloride	100.0	81.7	81.7	17	65.0[3]	10-251[1]
1,1-Dichloroethene	100.0	88.4	88.4	14	14[5]	61-145[5]
Chloroform	100.0	94.5	94.5	3.0	18.2[3]	51-138[1]
1,2-Dichloroethane	100.0	103.5	103.5	3.9	20.6[3]	49-155[1]
2-Butanone	100.0	132.9	132.9	19	25.0[3]	20-180[3]
Carbon Tetrachloride	100.0	88.4	88.4	10.8	11.3[3]	70-140[1]
Trichloroethene	100.0	89.2	89.2	6.1	14[5]	71-120[5]
Benzene	100.0	98.3	98.3	6.4	11[5]	76-127[1]
Tetrachloroethene	100.0	83.8	83.8	9.3	15.6[3]	64-148[1]
Chlorobenzene	100.0	94.4	94.4	5.1	13[5]	75-130[5]

* Indicates values outside of acceptability limits.
1 Accuracy limits as published in the EPA methods. (lowest acceptable limit has been tightened to 10% recovery based on laboratory practice)
3 Limits based on laboratory practice i.e. provisional limits.
5 Acceptability limits are derived from USEPA Contract Laboratory Program (CLP) requirements.
RPD: 0 of 10 outside limits.
Spike Recovery: 0 of 20 outside limits.

Project ID (Number): DOIIWD3 POL PHASEII
Project ID (Name): HAFB
DOII WAD3
Holloman, NM
Work Order Number: W7-04-0143
Date Reported: 04-17-97

Table 3

LABORATORY CONTROL SAMPLE (LCS) SUMMARY
PERCENT RECOVERY
Volatile Organics in TCLP Extract
Modified EPA Method 8240

Sample Spiked: TCLP041497F1 Client ID: TCLP BLK

Analyte	Spike Added, ug/L	Sample Concentration, ug/L	MS Concentration, ug/L	MS Percent Recovery	Acceptability Limits, %[a]
Vinyl Chloride	100.0	<10	84.9	84.9	10-251[1]
1,1-Dichloroethene	100.0	<5	95.2	95.2	61-145[5]
Chloroform	100.0	<5	100.2	100.2	51-138[1]
1,2-Dichloroethane	100.0	<5	106.2	106.2	49-155[1]
2-Butanone	100.0	<20	133.2	133.2	28-180[3]
Carbon Tetrachloride	100.0	<5	98.5	98.5	70-140[1]
Trichloroethene	100.0	<5	102.7	102.7	71-120[5]
Benzene	100.0	<5	96.1	96.1	76-127[1]
Tetrachloroethene	100.0	<5	97.4	97.4	64-148[1]
Chlorobenzene	100.0	<5	102.0	102.0	75-130[5]

Project ID (Number): DOIIWD3 POL PHASEII
Project ID (Name): HAFB
DOII WAD3
Holloman, NM
Work Order Number: W7-04-0143
Date Reported: 04-17-97

ANALYTICAL RESULTS

Semivolatile Organics in TCLP Leachate[a]
EPA Method 8270B[b]

GTEL Sample Number		01	02		
Client Identification		SWMU123-SP1	SWMU123-SP2		
Date Sampled		04-08-97	04-08-97		
Date Leached		04-10-97	04-10-97		
Date Extracted		04-14-97	04-14-97		
Extraction Fluid		#1	#1		
Date Analyzed		04-15-97	04-15-97		
Analyte	Reporting Limit, mg/L	Concentration, mg/L			
o-Cresol	0.033	<0.033	<0.033		
m-Cresol + p-Cresol	0.033	<0.033	<0.033		
1,4-Dichlorobenzene	0.033	<0.033	<0.033		
2,4-Dinitrotoluene	0.033	<0.033	<0.033		
Hexachloro-1,3-butadiene	0.033	<0.033	<0.033		
Hexachlorobenzene	0.033	<0.033	<0.033		
Hexachloroethane	0.033	<0.033	<0.033		
Nitrobenzene	0.033	<0.033	<0.033		
Pentachlorophenol	0.17	<0.17	<0.17		
Pyridine	0.033	<0.033	<0.033		
2,4,5-Trichlorophenol	0.033	<0.033	<0.033		
2,4,6-Trichlorophenol	0.033	<0.033	<0.033		
Reporting Limit Multiplier[c]		1	1		

a Test Methods for Evaluating Solid Waste, SW-846, Third Edition, Revision 0, US EPA, November 1986; extraction by EPA Method 3510 (liquid/liquid). TCLP performed as per 40 CFR, Part 261, Appendix II - Method 1311. These data are presented in accordance with the Federal Register, 57, p.55114, November 24, 1992.

b Test Methods for Evaluating Solid Waste, SW-846, Third Edition, Revision 2, US EPA, Jan 1995; extraction by EPA Method 3510 (liquid/liquid).

c The reporting limit multiplier indicates the adjustments made to the reporting limits for sample dilutions.

Project ID (Number): DOIIWD3 POL PHASEII
Project ID (Name): HAFB
DOII WAD3
Holloman, NM
Work Order Number: W7-04-0143
Date Reported: 04-17-97

QA NONCONFORMANCE SUMMARY

Semivolatile Organics in TCLP Leachate
EPA Method 8270B[b]

1.0 Sample Handling

1.1 Sample handling and holding time criteria were not met for zero samples.

2.0 Surrogate Compound Recoveries

2.1 The recovery limits were exceeded for zero surrogate compounds as shown in Table 2.

3.0 Matrix Spike (MS) Accuracy

3.1 The recovery limits were exceeded in the matrix spike for zero compounds as shown in Table 3A and 3.5A.

4.0 Sample Duplicate Precision

4.1 The maximum percent difference (RPD) was exceeded for zero compounds in the duplicate samples as shown in Table 3B and 3.5B.

5.0 Method Blanks

5.1 Zero target compounds were found in the method blank as shown in Table 4.

Project ID (Number): DOIIWD3 POL PHASEII
Project ID (Name): HAFB
DOII WAD3
Holloman, NM
Work Order Number: W7-04-0143
Date Reported: 04-17-97

Table 2

SURROGATE RECOVERY SUMMARY

Semivolatile Organics in TCLP Leachate
EPA Method 8270B[b]

GTEL No.	Percent Recovery, %						
	S1 (NBZ)	S2 (FBP)	S3 (TPH)	S4 (PHL)	S5 (2FP)	S6 (TBP)	TOT OUT
BT041497BNA	84.8	85.4	71.3	71.3	75.8	80.7	0
LT041497BNA	99.2	90.5	91.0	81.0	86.9	92.7	0
LTD041497BNA	93.3	92.8	86.6	78.4	86.5	90.4	0
W7040143-09	90.1	92.2	87.3	79.8	82.2	91.6	0
W7040145-10	91.5	89.7	85.6	87.7	86.4	96.6	0
MS040143-10	87.6	90.3	84.6	77.7	82.0	91.9	0
MD040143-10	86.9	86.6	84.8	75.1	80.1	90.1	0

	Surrogates		Recovery Limits[a]
S1	NBZ	Nitrobenzene-d5	35-114
S2	FBP	2-Fluorobiphenyl	43-116
S3	TPH	Terphenyl-d14	33-141
S4	PHL	Phenol-d5	10- 94
S5	2FP	2-Fluorophenol	21-100
S6	TBP	2,4,6-Tribromophenol	10-123

D Surrogate diluted out.
* Indicates values outside of acceptability limits.
a Acceptability limits are derived from USEPA Contract Laboratory Program (CLP) guidelines.

Project ID (Number): DOIIWD3 POL PHASEII
Project ID (Name): HAFB
DOII WAD3
Holloman, NM
Work Order Number: W7-04-0143
Date Reported: 04-17-97

Table 3A

LABORATORY CONTROL SPIKE AND LABORATORY CONTROL SPIKE DUPLICATE (LCSD) SUMMARY
PERCENT RECOVERY AND RELATIVE PERCENT DIFFERENCE (RPD)

Semivolatile Organics in TCLP Leachate
EPA Method 8270B[b]

Sample Spiked: LT041497BNA Client ID: EF #1

Analyte	Spike Added, mg/L	Sample Concentration, mg/L	MS Concentration, mg/L	MS Percent Recovery	Acceptability Limits, %[a]
Pyridine	333	<33	250.7	75.2	10-150
1,4-Dichlorobenzene	333	<33	277.2	83.2	36-97
2-Methylphenol	333	<33	289.1	86.7	32-119
3,4-Methylphenol	667	<33	565.0	84.8	32-119
Hexachloroethane	333	<33	254.6	76.4	40-113
Nitrobenzene	333	<33	292.2	87.7	35-180
Hexachlorobutadiene	333	<33	293.5	88.1	24-116
2,4,6-Trichlorophenol	333	<33	269.2	80.8	37-144
2,4,5-Trichlorophenol	333	<33	291.3	87.4	37-144
2,4-Dinitrotoluene	333	<33	250.9	75.3	24-96
Hexachlorobenzene	333	<33	253.0	75.9	10-152
Pentachlorophenol	333	<167	250.9	75.3	10-103

Table 3B

Analyte	Spike Added, mg/L	MSD Concentration, mg/L	MSD Percent Recovery	RPD, %	Acceptability Limits[a]	
					RPD	% Recovery
Pyridine	333	275.9	82.8	9.6	50	10-150
1,4-Dichlorobenzene	333	280.1	84.0	1.0	27	36-97
2-Methylphenol	333	291.0	87.3	0.7	34	32-119
3,4-Methylphenol	667	568.0	85.2	0.5	34	32-119
Hexachloroethane	333	261.5	78.4	2.7	26	40-113
Nitrobenzene	333	289.9	87.0	0.8	39	35-180
Hexachlorobutadiene	333	296.6	89.0	1.0	38	24-116
2,4,6-Trichlorophenol	333	280.5	84.2	4.1	34	37-144
2,4,5-Trichlorophenol	333	300.7	90.2	3.2	34	37-144
2,4-Dinitrotoluene	333	245.4	73.6	2.2	47	24-96
Hexachlorobenzene	333	249.2	74.8	1.5	60	10-152
Pentachlorophenol	333	250.5	75.2	0.1	47	10-103

* Indicates values outside of acceptability limits.

a Acceptability limits are derived from USEPA requirements and laboratory practices.

RPD: 0 out of 12 outside limits.

Spike Recovery: 0 out of 24 outside limits.

Project ID (Number): DOIIWD3 POL PHASEII
Project ID (Name): HAFB
DOII WAD3
Holloman, NM
Work Order Number: W7-04-0143
Date Reported: 04-17-97

Table 3.5

MATRIX SPIKE (MS) AND MATRIX SPIKE DUPLICATE (MSD) SUMMARY
PERCENT RECOVERY AND RELATIVE PERCENT DIFFERENCE (RPD)

Semivolatile Organics in TCLP Leachate
EPA Method 8270B[b]

Sample Spiked: W7040143 Client ID: SWMU123-SP2

Analyte	Spike Added, mg/L	Sample Concentration, mg/L	MS Concentration, mg/L	MS Percent Recovery	Acceptability Limits, %[a]
Pyridine	333	<33	232.6	69.8	10-150
1,4-Dichlorobenzene	333	<33	263.4	79.0	36-97
2-Methylphenol	333	<33	282.7	84.8	32-119
3,4-Methylphenol	667	<33	551.7	82.8	32-119
Hexachloroethane	333	<33	234.2	70.3	40-113
Nitrobenzene	333	<33	272.4	81.7	35-180
Hexachlorobutadiene	333	<33	275.8	82.8	24-116
2,4,6-Trichlorophenol	333	<33	281.6	84.5	37-144
2,4,5-Trichlorophenol	333	<33	296.3	88.9	37-144
2,4-Dinitrotoluene	333	<33	240.9	72.3	24-96
Hexachlorobenzene	333	<33	240.2	72.1	10-152
Pentachlorophenol	333	<167	239.7	71.9	10-103

Table 3.5B

Analyte	Spike Added, mg/L	MSD Concentration, mg/L	MSD Percent Recovery	RPD, %	Acceptability Limits[a]	
					RPD	% Recovery
Pyridine	333	229.7	68.9	1.3	50	10-150
1,4-Dichlorobenzene	333	248.9	74.7	5.7	27	36-97
2-Methylphenol	333	281.9	84.6	0.3	34	32-119
3,4-Methylphenol	667	542.7	81.4	1.6	34	32-119
Hexachloroethane	333	229.5	68.8	2.0	26	40-113
Nitrobenzene	333	263.9	79.2	3.2	39	35-180
Hexachlorobutadiene	333	256.7	77.0	7.2	38	24-116
2,4,6-Trichlorophenol	333	269.3	80.8	4.5	34	37-144
2,4,5-Trichlorophenol	333	294.5	88.3	0.6	34	37-144
2,4-Dinitrotoluene	333	249.4	74.8	3.5	47	24-96
Hexachlorobenzene	333	239.8	72.0	0.1	60	10-152
Pentachlorophenol	333	245.2	73.6	2.2	47	10-103

* Indicates values outside of acceptability limits.

a Acceptability limits are derived from USEPA requirements and laboratory practices.

RPD: 0 out of 12 outside limits.

Spike Recovery: 0 out of 24 outside limits.

Project ID (Number): DOIIWD3 POL PHASEII
Project ID (Name): HAFB
DOII WAD3
Holloman, NM
Work Order Number: W7-04-0143
Date Reported: 04-17-97

Table 4

METHOD BLANK

Semivolatile Organics in TCLP Leachate[a]
EPA Method 8270B[b]

	GTEL File Number	BT041497BNA			
	Date Leached	04-10-97			
	Date Extracted	04-14-97			
	Extraction Fluid	#1			
	Date Analyzed	04-15-97			
Analyte	Quantitation Limit, mg/L	Concentration, mg/L			
o-Cresol	0.033	<0.033			
m-Cresol + p-Cresol	0.033	<0.033			
1,4-Dichlorobenzene	0.033	<0.033			
2,4-Dinitrotoluene	0.033	<0.033			
Hexachloro-1,3-butadiene	0.033	<0.033			
Hexachlorobenzene	0.033	<0.033			
Hexachloroethane	0.033	<0.033			
Nitrobenzene	0.033	<0.033			
Pentachlorophenol	0.17	<0.17			
Pyridine	0.033	<0.033			
2,4,5-Trichlorophenol	0.033	<0.033			
2,4,6-Trichlorophenol	0.033	<0.033			
Reporting Limit Multiplier[c]		1			

a Test Methods for Evaluating Solid Waste, SW-846, Third Edition, Revision 0, US EPA, November 1986; extraction by EPA Method 3510 (liquid/liquid). TCLP performed as per 40 CFR, Part 261, Appendix II - Method 1311. These data are presented in accordance with the Federal Register, 57, p.55114, November 24, 1992.

b Test Methods for Evaluating Solid Waste, SW-846, Third Edition, Revision 2, US EPA, Jan 1995; extraction by EPA Method 3510 (liquid/liquid).

c The quantitation limit multiplier indicates the adjustments made to the reporting limits for sample dilutions.

ANALYTICAL RESULTS
Volatile Organics

NEI/GTEL Client ID: FWH03FWH03
Login Number: W7040143
Project ID (number): DOIIWAD3 POL PHASEII
Project ID (name): HAFB/DOII WAD3/HOLLOMAN/NM

Method: EPA 8021A
Matrix: Solids

NEI/GTEL Sample Number	W7040143-01	W7040143-02	W7040143-03	W7040143-04
Client ID	SWMU123-01-09	SWMU123-02-09	SWMU123-03-09	SWMU123-04-09
Date Sampled	04/08/97	04/08/97	04/08/97	04/08/97
Date Analyzed	04/14/97	04/14/97	04/14/97	04/14/97
Dilution Factor	10.0	1.00	1.00	1.00

Analyte	Reporting Limit	Units	Concentration:Dry Weight			
Benzene	0.05	mg/kg	33.	< 0.05	< 0.05	0.08
Toluene	0.10	mg/kg	240	< 0.10	< 0.10	< 0.10
Ethylbenzene	0.10	mg/kg	320	< 0.10	< 0.10	< 0.10
Xylenes (total)	0.20	mg/kg	480	< 0.20	< 0.20	< 0.20
Percent Solids	--	%	74.3	77.1	77.0	77.9

Notes:

Dilution Factor:

Dilution factor indicates the adjustments made for sample dilution.

EPA 8021A:

EPA 8021A: "Test Methods for Evaluating Solid Waste, Physical and Chemical Methods", SW-846, Third Edition, Revision 1, US EPA September 1994.

W7040143-01:

1 out of 2 surrogates was outside control limits due to matrix effects.

W7040143-03:

1 out of 2 surrogates was outside control limits due to matrix effects.

ANALYTICAL RESULTS
Volatile Organics

NEI/GTEL Client ID: FWH03FWH03
gin Number: W7040143
roject ID (number): DOIIWAD3 POL PHASEII
Project ID (name): HAFB/DOII WAD3/HOLLOMAN/NM

Method: EPA 8021A
Matrix: Solids

NEI/GTEL Sample Number	W7040143-05	W7040143-06	W7040143-07	--
Client ID	SWMU123-05-11	SWMU123-SP1	SWMU123-SP2	--
Date Sampled	04/08/97	04/08/97	04/08/97	--
Date Analyzed	04/14/97	04/14/97	04/14/97	--
Dilution Factor	1.00	10.0	1.00	--

Analyte	Reporting Limit	Units	Concentration:Dry Weight			
Benzene	0.05	mg/kg	< 0.05	5.2	1.	--
Toluene	0.10	mg/kg	< 0.10	17.	8.1	--
Ethylbenzene	0.10	mg/kg	< 0.10	26.	18.	--
Xylenes (total)	0.20	mg/kg	< 0.20	46.	34.	--
Percent Solids	--	%	74.2	74.1	72.9	--

Notes:

Dilution Factor:

Dilution factor indicates the adjustments made for sample dilution.

EPA 8021A:

EPA 8021A: "Test Methods for Evaluating Solid Waste, Physical and Chemical Methods", SW-846, Third Edition, Revision 1, US EPA September 1994.

NEI/GTEL Client ID: FWH03FWH03 QUALITY CONTROL RESULTS
Login Number: W7040143 Volatile Organics
Project ID (number): DOIIWAD3 POL PHASEII Method: EPA 8021A
Project ID (name): HAFB/DOII WAD3/HOLLOMAN/NM Matrix: Soil

Surrogate Results

QC Batch No.	Reference	Sample ID	TFT	BFB
Method: EPA 8021A		Acceptability Limits:	70-130%	70-130%
041397GC5-10	LS04139751	Laboratory control	103.	106.
041397GC5-11	LSD04139751	LCS Soil Duplicate	102.	105.
041397GC5-8	CV04139751	Calibration Verifi	115.	98.3
041397GC5-9	BS04139751	Method Blank Soil	103.	88.4
--	04014301	SWMU123-01-09	103.	314.*
--	04014302	SWMU123-02-09	102.	95.0
--	04014303	SWMU123-03-09	104.	68.1*
--	04014304	SWMU123-04-09	99.4	95.2
--	04014305	SWMU123-05-11	94.8	91.6
--	04014306	SWMU123-SP1	109.	103.
--	04014307	SWMU123-SP2	94.9	126.

Notes:
*: Indicates values outside of acceptability limits. See Nonconformance Summary.

NEI/GTEL Client ID: FWH03FWH03 QUALITY CONTROL RESULTS
Login Number: W7040143 Volatile Organics
Project ID (number): DOIIWAD3 POL PHASEII Method: EPA 8021A
Project ID (name): HAFB/DOII WAD3/HOLLOMAN/NM Matrix: Solids

Method Blank Results

QC Batch No: 041397GC5-9
Date Analyzed: 14-APR-97

Analyte	Method:EPA 8021A	Concentration: mg/kg
Benzene	< 0.0500	
Toluene	< 0.100	
Ethylbenzene	< 0.100	
Xylenes (Total)	< 0.200	

Notes:

NEI/GTEL Client ID: FWH03FWH03 QUALITY CONTROL RESULTS
Login Number: W7040143 Volatile Organics
Project ID (number): DOIIWAD3 POL PHASEII Method: EPA 8[illegible]
Project ID (name): HAFB/DOII WAD3/HOLLOMAN/NM Matrix: So[illegible]

Calibration Verification Sample Summary

Analyte		Spike Amount	Check Sample Concentration	QC Percent Recovery	Acceptability Limits Recovery
EPA 8021A	Units:ug/L	QC Batch:041397GC5-8			
Benzene		20.0	17.9	89.5	85-115%
Toluene		20.0	17.5	87.5	85-115%
Ethylbenzene		20.0	17.7	88.5	85-115%
Xylenes (Total)		60.0	52.2	87.0	85-115%

Notes:

NEI/GTEL Client ID: FWH03FWH03 QUALITY CONTROL RESULTS
Login Number: W7040143 Volatile Organics
Project ID (number): DOIIWAD3 POL PHASEII Method: EPA 8021A
Project ID (name): HAFB/DOII WAD3/HOLLOMAN/NM Matrix: Solids

Laboratory Control Sample (LCS) and Laboratory Control Duplicate Results

Analyte	Spike Amount	LCS Concentration	LCS Recovery, %	LCS Duplicate Concentration	LCS Duplicate Recovery, %	RPD, %	Acceptability Limits RPD, %	Acceptability Limits Recovery, %
EPA 8021A Units: mg/kg	QC Batch:041397GC5-11							
Benzene	5.00	5.65	113.	5.71	114.	0.881	28.3	80-120%
Toluene	5.00	5.72	114.	5.76	115.	0.873	30	80-120%
Ethylbenzene	5.00	5.81	116.	5.85	117.	0.858	30	80-120%
Xylenes (Total)	15.0	16.4	109.	16.5	110.	0.913	30	80-120%

Notes:

NEI/GTEL Client ID: FWH03FWH03 QUALITY CONTROL RESULTS
Login Number: W7040143 Volatile Organics
Project ID (number): DOIIWAD3 POL PHASEII Method: EPA 8
Project ID (name): HAFB/DOII WAD3/HOLLOMAN/NM Matrix: So

Conformance/Non-Conformance Summary

(X = Requirements Met * = See Comments -- = Not Required NA = Not Applicable)

Conformance Item	Volatile Organics	Semi-Volatile Organics	Inorganics (MT, WC)
GC/MS Tune	--	--	NA
Initial Calibration	--	--	--
Continuing Calibration	X	--	--
Surrogate Recovery	*	--	NA
Holding Time	X	--	--
Method Accuracy	X	--	--
Method Precision	--	--	--
Blank Contamination	X	--	--

Comments:

ANALYTICAL RESULTS
Volatile Organics

NEI/GTEL Client ID: FWH03FWH03
ogin Number: W7040143
roject ID (number): DOIIWAD3 POL PHASEII
Project ID (name): HAFB/DOII WAD3/HOLLOMAN/NM

Method: EPA 8021A
Matrix: Aqueous

NEI/GTEL Sample Number	W7040143-08	--	--	--
Client ID	TB-11	--	--	--
Date Sampled		--	--	--
Date Analyzed	04/14/97	--	--	--
Dilution Factor	1.00	--	--	--

Analyte	Reporting Limit	Units	Concentration:			
Benzene	0.5	ug/L	< 0.5	--	--	--
Toluene	1.0	ug/L	< 1.0	--	--	--
Ethylbenzene	1.0	ug/L	< 1.0	--	--	--
Xylenes (total)	2.0	ug/L	< 2.0	--	--	--
TPH as Gasoline	100	ug/L	< 100	--	--	--

Notes:

Dilution Factor:

Dilution factor indicates the adjustments made for sample dilution.

EPA 8021A:

EPA 8021A: "Test Methods for Evaluating Solid Waste, Physical and Chemical Methods", SW-846, Third Edition, Revision 1, US EPA September 1994.

NEI/GTEL Client ID: FWH03FWH03 QUALITY CONTROL RESULTS
Login Number: W7040143 Volatile Organi
Project ID (number): DOIIWAD3 POL PHASEII Method: EPA 8(
Project ID (name): HAFB/DOII WAD3/HOLLOMAN/NM Matrix: Aqueous

Surrogate Results

QC Batch No.	Reference	Sample ID	TFT	BFB
Method: EPA 8021A		Acceptability Limits:	80-120%	80-120%
041397GC5-12	LW04139751	Laboratory Control	103.	106.
041397GC5-13	LWD04139751	LCS Water Duplicat	102.	105.
041397GC5-14	BW4139751	Method Blank Water	103.	88.4
041397GC5-8	CV04139751	Calibration Verifi	115.	98.3
--	04014308	TB-11	116.	116.

Notes:
*: Indicates values outside of acceptability limits. See Nonconformance Summary.

NEI/GTEL Client ID: FWH03FWH03 QUALITY CONTROL RESULTS
Login Number: W7040143 Volatile Organics
Project ID (number): DOIIWAD3 POL PHASEII Method: EPA 8021A
Project ID (name): HAFB/DOII WAD3/HOLLOMAN/NM Matrix: Aqueous

Method Blank Results

QC Batch No: 041397GC5-14
Date Analyzed: 13-APR-97

Analyte	Method:EPA 8021A	Concentration: ug/L
Benzene	< 0.500	
Toluene	< 1.00	
Ethylbenzene	< 1.00	
Xylenes (Total)	< 2.00	

Notes:

NEI/GTEL Client ID: FWH03FWH03 QUALITY CONTROL RESULTS
Login Number: W7040143 Volatile Orga
Project ID (number): DOIIWAD3 POL PHASEII Method: EPA 8
Project ID (name): HAFB/DOII WAD3/HOLLOMAN/NM Matrix: Aqueous

Calibration Verification Sample Summary

Analyte		Spike Amount	Check Sample Concentration	QC Percent Recovery	Acceptability Limits Recovery
EPA 8021A	Units:ug/L	QC Batch:041397GC5-8			
Benzene		20.0	17.9	89.5	85-115%
Toluene		20.0	17.5	87.5	85-115%
Ethylbenzene		20.0	17.7	88.5	85-115%
Xylenes (Total)		60.0	52.2	87.0	85-115%

Notes:

NEI/GTEL Client ID: FWH03FWH03 QUALITY CONTROL RESULTS
Login Number: W7040143 Volatile Organics
Project ID (number): DOIIWAD3 POL PHASEII Method: EPA 8021A
Project ID (name): HAFB/DOII WAD3/HOLLOMAN/NM Matrix: Aqueous

Laboratory Control Sample (LCS) and Laboratory Control Duplicate Results

Analyte	Spike Amount	LCS Concentration	LCS Recovery, %	LCS Duplicate Concentration	LCS Duplicate Recovery, %	RPD, %	Acceptability Limits RPD, %	Acceptability Limits Recovery, %
EPA 8021A Units: ug/L	QC Batch:041397GC5-13							
Benzene	50.0	56.5	113.	57.2	114.	0.881	20	80-120%
Toluene	50.0	57.2	114.	57.6	115.	0.873	20	80-120%
Ethylbenzene	50.0	58.1	116.	58.5	117.	0.858	20	80-120%
Xylenes (Total)	150.	164.	109.	165.	110.	0.913	20	80-120%

Notes:

NEI/GTEL Client ID: FWH03FWH03
Login Number: W7040143
Project ID (number): DOIIWAD3 POL PHASEII
Project ID (name): HAFB/DOII WAD3/HOLLOMAN/NM

QUALITY CONTROL RESULTS

Volatile Organics
Method: EPA 80
Matrix: Aqu

Conformance/Non-Conformance Summary

(X = Requirements Met * = See Comments -- = Not Required NA = Not Applicable)

Conformance Item	Volatile Organics	Semi-Volatile Organics	Inorganics (MT, WC)
GC/MS Tune	--	--	NA
Initial Calibration	--	--	--
Continuing Calibration	X	--	--
Surrogate Recovery	X	--	NA
Holding Time	--	--	--
Method Accuracy	X	--	--
Method Precision	--	--	--
Blank Contamination	X	--	--

Comments:

ANALYTICAL RESULTS
Total Petroleum Hydrocarbons

NEI/GTEL Client ID: FWH03FWH03
Lab Number: W7040143
Project ID (number): DOIIWAD3 POL PHASEII
Project ID (name): HAFB/DOII WAD3/HOLLOMAN/NM

Method: EPA 418.1
Matrix: Solids

NEI/GTEL Sample Number	W7040143-01	W7040143-02	W7040143-03	W7040143-04
Client ID	SWMU123-01-09	SWMU123-02-09	SWMU123-03-09	SWMU123-04-09
Date Sampled	04/08/97	04/08/97	04/08/97	04/08/97
Date Prepared	04/11/97	04/11/97	04/11/97	04/11/97
Date Analyzed	04/14/97	04/14/97	04/14/97	04/14/97
Dilution Factor	1.00	1.00	1.00	1.00

Analyte	Reporting Limit	Units	Concentration:Dry Weight			
Total Petroleum Hydrocarbons	20.	mg/kg	**4100**	< 20.	< 20.	< 20.
Percent Solids	--	%	74.3	77.1	77.0	77.9

Notes:

Dilution Factor:

Dilution factor indicates the adjustments made for sample dilution.

EPA 418.1:

Extraction is modified for soils by using EPA Method 9071 (soxhlet extraction). "Methods for Chemical Analysis of Water and Wastes", EPA 600/4-79-020, USEPA EMSL, Cincinnati, OH, Revised, March 1983.

ANALYTICAL RESULTS
Total Petroleum Hydrocarbons

NEI/GTEL Client ID: FWH03FWH03
Login Number: W7040143
Project ID (number): DOIIWAD3 POL PHASEII
Project ID (name): HAFB/DOII WAD3/HOLLOMAN/NM

Method: EPA 418.1
Matrix: Solids

NEI/GTEL Sample Number	W7040143-05	W7040143-06	W7040143-07	--
Client ID	SWMU123-05-11	SWMU123-SP1	SWMU123-SP2	--
Date Sampled	04/08/97	04/08/97	04/08/97	--
Date Prepared	04/11/97	04/11/97	04/11/97	
Date Analyzed	04/14/97	04/14/97	04/14/97	--
Dilution Factor	1.00	1.00	1.00	--

Analyte	Reporting Limit	Units	Concentration:Dry Weight			
Total Petroleum Hydrocarbons	20.	mg/kg	32.	2700	2500	--
Percent Solids	--	%	74.2	74.1	72.9	--

Notes:

Dilution Factor:

Dilution factor indicates the adjustments made for sample dilution.

EPA 418.1:

Extraction is modified for soils by using EPA Method 9071 (soxhlet extraction). "Methods for Chemical Analysis of Water and Wastes", EPA 600/4-79-020, USEPA EMSL, Cincinnati, OH, Revised, March 1983.

NEI/GTEL Client ID: FWH03FWH03 QUALITY CONTROL RESULTS
Login Number: W7040143 Total Petroleum Hydrocarbons
Project ID (number): DOIIWAD3 POL PHASEII Method: EPA 418.1
Project ID (name): HAFB/DOII WAD3/HOLLOMAN/NM Matrix: Solids

Method Blank Results

QC Batch No: 041197IRSX-1
Date Analyzed: 14-APR-97

Analyte	Method:EPA 418.1	Concentration: mg/kg
Total Petroleum Hydrocarbons	< 20.0	

Notes:

NEI/GTEL Client ID: FWH03FWH03 QUALITY CONTROL RESULTS
Login Number: W7040143 Total Petroleum Hydrocarbons
Project ID (number): DOIIWAD3 POL PHASEII Method: EPA 41
Project ID (name): HAFB/DOII WAD3/HOLLOMAN/NM Matrix: Solids

Calibration Verification Sample Summary

Analyte	Spike Amount	Check Sample Concentration	QC Percent Recovery	Acceptability Limits Recovery
EPA 418.1 Units:mg/L	**QC Batch:041197IRSX-6**			
Total Petroleum Hydrocarbons	5.00	5.21	104.	90-110%

Notes:

NEI/GTEL Client ID: FWH03FWH03 QUALITY CONTROL RESULTS
Login Number: W7040143 Total Petroleum Hydrocarbons
oject ID (number): DOIIWAD3 POL PHASEII Method: EPA 418.1
roject ID (name): HAFB/DOII WAD3/HOLLOMAN/NM Matrix: Solids

Laboratory Control Sample Summary

Analyte	Spike Amount	Check Sample Concentration	QC Percent Recovery	Acceptability Limits Recovery
EPA 418.1 Units:mg/kg QC Batch:041197IRSX-2				
Total Petroleum Hydrocarbons	150.	166.	111.	42-141%

Notes:
The accuracy limits are for a fuel oil #2 spike when the calibration is based on the standard reference oil.

NEI/GTEL Client ID: FWH03FWH03 QUALITY CONTROL RESULTS
Login Number: W7040143 Total Petroleum Hydrocarbons
Project ID (number): DOIIWAD3 POL PHASEII Method: EPA 41
Project ID (name): HAFB/DOII WAD3/HOLLOMAN/NM Matrix: Solids

Matrix Spike(MS) and Matrix Spike Duplicate(MSD) Results

GTEL Sample ID:W7040143-01 MS ID:MS04014301 MSD ID:MD04014301
Analysis Date: 14-APR-97 14-APR-97 14-APR-97

Units: mg/kg	Sample	Spikes Added		MS	MS	MSD	MSD		Acceptability Limits	
Analyte	Conc.	MS	MSD	Conc.	% Rec.	Conc.	% Rec.	RPD	RPD	%Rec.
Total Petroleum Hydrocarbons	3000 (3030)	150.	150.	2580	-300.*	7290	2840*	247.*	50	42-141

Notes:
Values in parentheses in the sample concentration column are used for % recovery calculations.
The spike recovery data may not be representative of the accuracy of the method or demonstrate true matrix interferences due to the ratio of background to spike amount.

The accuracy limits are for a fuel oil #2 spike when the calibration is based on the standard reference oil.
041197IRSX-4: Sample spike recovery is outside of acceptability limits due to high sample concentration. Blank spike recovery is within acceptability limits, therefore demonstrating method accuracy.
041197IRSX-4: :Sample duplicate RPD is outside of acceptability limits due to high sample concentration.

NEI/GTEL Client ID: FWH03FWH03 QUALITY CONTROL RESULTS
Login Number: W7040143 Total Petroleum Hydrocarbons
ɔject ID (number): DOIIWAD3 POL PHASEII Method: EPA 418.1
ɔject ID (name): HAFB/DOII WAD3/HOLLOMAN/NM Matrix: Solids

Conformance/Non-Conformance Summary

(X = Requirements Met * = See Comments -- = Not Required NA = Not Applicable)

Conformance Item	Volatile Organics	Semi-Volatile Organics	Inorganics (MT, WC)
GC/MS Tune	--	--	NA
Initial Calibration	--	--	--
Continuing Calibration	--	X	--
Surrogate Recovery	--	--	NA
Holding Time	--	X	--
Method Accuracy	--	*	--
Method Precision	--	*	--
Blank Contamination	--	X	--

Comments:
The accuracy limits are for a fuel oil #2 spike when the calibration is based on the standard reference oil.

APPENDIX B

AOC-G (DP-43)

NEI/GTEL
ENVIRONMENTAL LABORATORIES, INC.

Midwest Region
4211 May Avenue
Wichita, KS 67209
(316) 945-2624
(800) 633-7936
(316) 945-0506 (FAX)

May 28, 1997

Dan Holmquist
Foster Wheeler Environmental Corporation
241 Arkansas St. /Behind Rv Storage
Holloman A F B, NM 88330

RE:	NEI/GTEL Client ID:	FWH03FWH03
	Login Number:	W7050194
	Project ID (number):	DP-43
	Project ID (name):	HOLLOMAN AFB/DP-43/HOLLOMAN/NM

Dear Dan Holmquist:

This report, previously dated 05/23/97, is a reissue.

Enclosed please find the analytical results for the samples received by NEI/GTEL Environmental Laboratories, Inc. on 05/14/97 under Chain-of-Custody Number(s) 47748.

A formal Quality Assurance/Quality Control (QA/QC) program is maintained by NEI/GTEL, which is designed to meet or exceed the EPA requirements. Analytical work for this project met QA/QC criteria unless otherwise stated in the footnotes. This report is to be reproduced only in full.

NEI/GTEL is certified by the U.S. Army Corp of Engineers Laboratory Validation, expiration date March 18, 1997.

If you have any questions regarding this analysis, or if we can be of further assistance, please call our Customer Service Representative.

Sincerely,
NEI/GTEL Environmental Laboratories, Inc.

Customer Service Manager

Terry R. Loucks
Laboratory Director

ANALYTICAL RESULTS
Organochlorine Pesticides and/or PCB's

NEI/GTEL Client ID: FWH03FWH03
Login Number: W7050194
Project ID (number): DP-43
Project ID (name): HOLLOMAN AFB/DP-43/HOLLOMAN/NM

Method: EPA 8081
Matrix: Solids

NEI/GTEL Sample Number	W7050194-13	W7050194-14	--	--
Client ID	DP43SP01	DP43SP02	--	--
Date Sampled	05/09/97	05/09/97	--	--
Date Prepared	05/22/97	05/22/97		
Date Analyzed	05/27/97	05/28/97	--	--
Dilution Factor	1.00	1.00	--	--

Analyte	Reporting Limit	Units	Concentration:Wet Weight			
PCB - Aroclor 1221	10.	ug/kg	< 10.	< 10.	--	--
PCB - Aroclor 1232	10.	ug/kg	< 10.	< 10.	--	--
PCB - Aroclor 1242 (1016)	10.	ug/kg	< 10.	< 10.	--	--
PCB - Aroclor 1248	10.	ug/kg	< 10.	< 10.	--	--
PCB - Aroclor 1254	10.	ug/kg	< 10.	< 10.	--	--
PCB - Aroclor 1260	10.	ug/kg	< 10.	< 10.	--	--
Percent Solids	--	%	81.1	84.2	--	--

Notes:

Dilution Factor:

Dilution factor indicates the adjustments made for sample dilution.

EPA 8081:

Extraction by EPA METHOD 3550 (sonication). "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW-846, Third Edition including Update 2.

NEI/GTEL
ENVIRONMENTAL LABORATORIES, INC.

Midwest Region
4211 May Avenue
Wichita, KS 67209
(316) 945-2624
(800) 633-7936
(316) 945-0506 (FAX)

May 23, 1997

Dan Holmquist
Foster Wheeler Environmental Corporation
241 Arkansas St. /Behind Rv Storage
Holloman A F B, NM 88330

RE:	NEI/GTEL Client ID:	FWH03FWH03
	Login Number:	W7050194
	Project ID (number):	DP-43
	Project ID (name):	HOLLOMAN AFB/DP-43/HOLLOMAN/NM

Dear Dan Holmquist:

Enclosed please find the analytical results for the samples received by NEI/GTEL Environmental Laboratories, Inc. on 05/14/97 under Chain-of-Custody Number(s) 47748.

A formal Quality Assurance/Quality Control (QA/QC) program is maintained by NEI/GTEL, which is designed to meet or exceed the EPA requirements. Analytical work for this project met QA/QC criteria unless otherwise stated in the footnotes. This report is to be reproduced only in full.

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If you have any questions regarding this analysis, or if we can be of further assistance, please call our Customer Service Representative.

Sincerely,
NEI/GTEL Environmental Laboratories, Inc.

Customer Service Manager

Terry R. Loucks
Laboratory Director

ANALYTICAL RESULTS
Organochlorine Pesticides and/or PCB's

NEI/GTEL Client ID: FWH03FWH03
Login Number: W7050194
Project ID (number): DP-43
Project ID (name): HOLLOMAN AFB/DP-43/HOLLOMAN/NM

Method: EPA 8081
Matrix: Solids

NEI/GTEL Sample Number	W7050194-08	W7050194-09	W7050194-10	W7050194-11
Client ID	DP430108	DP430208	DP430308	DP430408
Date Sampled	05/09/97	05/09/97	05/09/97	05/09/97
Date Prepared	05/15/97	05/15/97	05/15/97	05/15/97
Date Analyzed	05/20/97	05/21/97	05/21/97	05/21/97
Dilution Factor	1.00	1.00	1.00	1.00

Analyte	Reporting Limit	Units	Concentration:Dry Weight			
PCB - Aroclor 1221	10.	ug/kg	< 10.	< 10.	< 10.	< 10.
PCB - Aroclor 1232	10.	ug/kg	< 10.	< 10.	< 10.	< 10.
PCB - Aroclor 1242 (1016)	10.	ug/kg	< 10.	< 10.	< 10.	< 10.
PCB - Aroclor 1248	10.	ug/kg	< 10.	< 10.	< 10.	< 10.
PCB - Aroclor 1254	10.	ug/kg	< 10.	< 10.	< 10.	< 10.
PCB - Aroclor 1260	10.	ug/kg	< 10.	< 10.	< 10.	< 10.
Percent Solids	--	%	85.4	86.3	84.1	83.9

Notes:

Dilution Factor:

Dilution factor indicates the adjustments made for sample dilution.

EPA 8081:

Extraction by EPA METHOD 3550 (sonication). "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW-846, Third Edition including Update 2.

ANALYTICAL RESULTS
Organochlorine Pesticides and/or PCB's

NEI/GTEL Client ID: FWH03FWH03
Login Number: W7050194
Project ID (number): DP-43
Project ID (name): HOLLOMAN AFB/DP-43/HOLLOMAN/NM

Method: EPA 8081
Matrix: Solids

NEI/GTEL Sample Number	W7050194-12	--	--	--
Client ID	DP430508	--	--	--
Date Sampled	05/09/97	--	--	--
Date Prepared	05/15/97			
Date Analyzed	05/21/97	--	--	--
Dilution Factor	1.00	--	--	--

Analyte	Reporting Limit	Units	Concentration:Dry Weight			
PCB - Aroclor 1221	10.	ug/kg	< 10.	--	--	--
PCB - Aroclor 1232	10.	ug/kg	< 10.	--	--	--
PCB - Aroclor 1242 (1016)	10.	ug/kg	< 10.	--	--	--
PCB - Aroclor 1248	10.	ug/kg	< 10.	--	--	--
PCB - Aroclor 1254	10.	ug/kg	< 10.	--	--	--
PCB - Aroclor 1260	10.	ug/kg	< 10.	--	--	--
Percent Solids	--	%	84.3	--	--	--

Notes:

Dilution Factor:

Dilution factor indicates the adjustments made for sample dilution.

EPA 8081:

Extraction by EPA METHOD 3550 (sonication). "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW-846, Third Edition including Update 2.

ANALYTICAL RESULTS
Results For Multiple Methods

NEI/GTEL Client ID: FWH03FWH03
Login Number: W7050194
Project ID (number): DP-43
Project ID (name): HOLLOMAN AFB/DP-43/HOLLOMAN/NM

Method: See Below
Matrix: Solids

	NEI/GTEL Sample Number	W7050194-13	W7050194-14	--	--
	Client ID	DP43SP01	DP43SP02	--	--
	Date Sampled	05/09/97	05/09/97	--	--
ASTM D93	Date Analyzed	05/21/97	05/21/97	--	--
ASTM D93	Dilution Factor	1.00	1.00	--	--
EPA 9010A	Date Prepared	05/15/97	05/15/97	--	--
EPA 9010A	Date Analyzed	05/15/97	05/15/97	--	--
EPA 9010A	Dilution Factor	1.00	1.00	--	--
EPA 9045B	Date Analyzed	05/16/97	05/16/97	--	--
EPA 9045B	Dilution Factor	1.00	1.00	--	--
EPA SW 846, CH. 7	Date Prepared	05/21/97	05/21/97	--	--
EPA SW 846, CH. 7	Date Analyzed	05/21/97	05/21/97	--	--
EPA SW 846, CH. 7	Dilution Factor	1.00	1.00	--	--

Analyte		Reporting Limit	Units	Concentration:Dry Weight			
Inorganics (MT, WC)							
Total Cyanide	EPA 9010A	2.0	mg/kg	< 2.0	< 2.0	--	--
Flashpoint (Closed Cup)	ASTM D93	70.0	deg F	> 200.	> 200.	--	--
pH	EPA 9045B	0.	pH	8.2	8.3	--	--
Reactive Sulfide	EPA SW 846, CH. 7	25.	mg/kg	< 25.	< 25.	--	--
Percent Solids	--	--	%	81.1	84.2	--	--

Notes:

Dilution Factor:

Dilution factor indicates the adjustments made for sample dilution.

ASTM D93:

Annual Book of ASTM Standards, 1983 Revision.

EPA 9010A, EPA 9045B, EPA SW 846, CH. 7:

"Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW-846, Third Edition including Update 2.

ANALYTICAL RESULTS
Paint Filter

NEI/GTEL Client ID: FWH03FWH03
Login Number: W7050194
Project ID (number): DP-43
Project ID (name): HOLLOMAN AFB/DP-43/HOLLOMAN/NM

Method: EPA 9095
Matrix: Solids

NEI/GTEL Sample Number	W7050194-13	W7050194-14	--	--
Client ID	DP43SP01	DP43SP02	--	--
Date Sampled	05/09/97	05/09/97	--	--
Date Analyzed	05/19/97	05/19/97	--	--
Dilution Factor	1.00	1.00	--	--

Analyte	Reporting Limit	Units	Concentration:Wet Weight			
Paint Filter Liquids Test	--	std	Not Present	Not Present	--	--
Percent Solids	--	%	81.1	84.2	--	--

Notes:

Dilution Factor:

Dilution factor indicates the adjustments made for sample dilution.

EPA 9095:

"Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW-846, Third Edition including Update 2.

ANALYTICAL RESULTS
Volatile Organics

NEI/GTEL Client ID: FMH03FMH03
Login Number: W7050194
Project ID (number): DP-43
Project ID (name): HOLLOMAN AFB/DP-43/HOLLOMAN/NM

Method: EPA 8021A
Matrix: Solids

NEI/GTEL Sample Number	W7050194-13	W7050194-14	--	--
Client ID	DP43SP01	DP43SP02	--	--
Date Sampled	05/09/97	05/09/97	--	--
Date Analyzed	05/19/97	05/19/97	--	--
Dilution Factor	1.00	1.00	--	--

Analyte	Reporting Limit	Units	Concentration:Dry Weight			
Benzene	0.05	mg/kg	< 0.05	< 0.05	--	--
Toluene	0.10	mg/kg	< 0.10	< 0.10	--	--
Ethylbenzene	0.10	mg/kg	< 0.10	< 0.10	--	--
Xylenes (total)	0.20	mg/kg	< 0.20	< 0.20	--	--
Percent Solids	--	%	81.1	84.2	--	--

Notes:

Dilution Factor:

Dilution factor indicates the adjustments made for sample dilution.

EPA 8021A:

EPA 8021A: "Test Methods for Evaluating Solid Waste, Physical and Chemical Methods", SW-846, Third Edition, Revision 1, US EPA September 1994.

NEI/GTEL
ENVIRONMENTAL LABORATORIES, INC.

Midwest Region
4211 May Avenue
Wichita, KS 67209
(316) 945-2624
(800) 633-7936
(316) 945-0506 (FAX)

May 23, 1997

Dan Holmquist
Foster Wheeler Environmental Corporation
241 Arkansas St. /Behind Rv Storage
Holloman A F B, NM 88330

RE: NEI/GTEL Client ID:	FWH03FWH03
Login Number:	W7050194
Project ID (number):	DP-43
Project ID (name):	HOLLOMAN AFB/DP-43/HOLLOMAN/NM

Dear Dan Holmquist:

Enclosed please find the analytical results for the samples received by NEI/GTEL Environmental Laboratories, Inc. on 05/14/97 under Chain-of-Custody Number(s) 47748.

A formal Quality Assurance/Quality Control (QA/QC) program is maintained by NEI/GTEL, which is designed to meet or exceed the EPA requirements. Analytical work for this project met QA/QC criteria unless otherwise stated in the footnotes. This report is to be reproduced only in full.

NEI/GTEL is certified by the U.S. Army Corp of Engineers Laboratory Validation, expiration date March 18, 1997.

If you have any questions regarding this analysis, or if we can be of further assistance, please call our Customer Service Representative.

Sincerely,
NEI/GTEL Environmental Laboratories, Inc.

Customer Service Manager

Terry R. Loucks
Laboratory Director

ANALYTICAL RESULTS
Organochlorine Pesticides and/or PCB's

NEI/GTEL Client ID: FWH03FWH03
gin Number: W7050194
roject ID (number): DP-43
Project ID (name): HOLLOMAN AFB/DP-43/HOLLOMAN/NM

Method: EPA 8081
Matrix: Solids

NEI/GTEL Sample Number	W7050194-08	W7050194-09	W7050194-10	W7050194-11
Client ID	DP430108	DP430208	DP430308	DP430408
Date Sampled	05/09/97	05/09/97	05/09/97	05/09/97
Date Prepared	05/15/97	05/15/97	05/15/97	05/15/97
Date Analyzed	05/20/97	05/21/97	05/21/97	05/21/97
Dilution Factor	1.00	1.00	1.00	1.00

Analyte	Reporting Limit	Units	Concentration:Dry Weight			
PCB - Aroclor 1221	10.	ug/kg	< 10.	< 10.	< 10.	< 10.
PCB - Aroclor 1232	10.	ug/kg	< 10.	< 10.	< 10.	< 10.
PCB - Aroclor 1242 (1016)	10.	ug/kg	< 10.	< 10.	< 10.	< 10.
PCB - Aroclor 1248	10.	ug/kg	< 10.	< 10.	< 10.	< 10.
PCB - Aroclor 1254	10.	ug/kg	< 10.	< 10.	< 10.	< 10.
PCB - Aroclor 1260	10.	ug/kg	< 10.	< 10.	< 10.	< 10.
Percent Solids	--	%	85.4	86.3	84.1	83.9

Notes:

Dilution Factor:

Dilution factor indicates the adjustments made for sample dilution.

EPA 8081:

Extraction by EPA METHOD 3550 (sonication). "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW-846, Third Edition including pdate 2.

ANALYTICAL RESULTS
Organochlorine Pesticides and/or PCB's

NEI/GTEL Client ID: FWH03FWH03
Login Number: W7050194
Project ID (number): DP-43
Project ID (name): HOLLOMAN AFB/DP-43/HOLLOMAN/NM

Method: EPA 8081
Matrix: Solids

NEI/GTEL Sample Number	W7050194-12	--	--	--
Client ID	DP430508	--	--	--
Date Sampled	05/09/97	--	--	--
Date Prepared	05/15/97			
Date Analyzed	05/21/97	--	--	--
Dilution Factor	1.00	--	--	--

Analyte	Reporting Limit	Units	Concentration:Dry Weight			
PCB - Aroclor 1221	10.	ug/kg	< 10.	--	--	--
PCB - Aroclor 1232	10.	ug/kg	< 10.	--	--	--
PCB - Aroclor 1242 (1016)	10.	ug/kg	< 10.	--	--	--
PCB - Aroclor 1248	10.	ug/kg	< 10.	--	--	--
PCB - Aroclor 1254	10.	ug/kg	< 10.	--	--	--
PCB - Aroclor 1260	10.	ug/kg	< 10.	--	--	--
Percent Solids	--	%	84.3	--	--	--

Notes:

Dilution Factor:

Dilution factor indicates the adjustments made for sample dilution.

EPA 8081:

Extraction by EPA METHOD 3550 (sonication). "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW-846, Third Edition including Update 2.

NEI/GTEL Client ID: FWH03FWH03 QUALITY CONTROL RESULTS
Login Number: W7050194 Organochlorine Pesticides and/or PCB
Project ID (number): DP-43 Method: EPA 8081
Project ID (name): HOLLOMAN AFB/DP-43/HOLLOMAN/NM Matrix: Solids

Conformance/Non-Conformance Summary

(X = Requirements Met * = See Comments -- = Not Required NA = Not Applicable)

Conformance Item	Volatile Organics	Semi-Volatile Organics	Inorganics (MT, WC)
GC/MS Tune	--	--	NA
Initial Calibration	--	--	--
Continuing Calibration	--	--	--
Surrogate Recovery	--	X	NA
Holding Time	--	X	--
Method Accuracy	--	X	--
Method Precision	--	X	--
Blank Contamination	--	X	--

Comments:

NEI/GTEL Client ID: FWH03FWH03 QUALITY CONTROL RESULTS
Login Number: W7050194 Organochlorine Pesticides and/or PCB
Project ID (number): DP-43 Method: EPA
Project ID (name): HOLLOMAN AFB/DP-43/HOLLOMAN/NM Matrix: So

Surrogate Results

QC Batch No.	Reference	Sample ID	TCMX	DCBP
Method: EPA 8081		Acceptability Limits:	37.7-126%	35.6-155%
051597PCBS-1	BS051597PCB	Method Blank Soil	71.5	89.3
051597PCBS-2	LS051597PCB	Laboratory control	77.0	89.8
051597PCBS-4	MS05019412	Matrix Spike	72.8	89.4
051597PCBS-5	MD05019412	Matrix Spike Dupli	81.3	100.
--	05019408	DP430108	83.3	95.1
--	05019409	DP430208	82.1	93.3
--	05019410	DP430308	68.0	75.8
--	05019411	DP430408	80.6	85.7
--	05019412	DP430508	77.6	90.3

Notes:

*: Indicates values outside of acceptability limits. See Nonconformance Summary.

Data is acceptable as long as at least one surrogate has a recovery within acceptability limits.

Acceptability limits are derived from statistical analysis of laboratory samples.

NEI/GTEL Client ID: FWH03FWH03 QUALITY CONTROL RESULTS
Login Number: W7050194 Organochlorine Pesticides and/or PCB
Project ID (number): DP-43 Method: EPA 8081
Project ID (name): HOLLOMAN AFB/DP-43/HOLLOMAN/NM Matrix: Solids

Method Blank Results

QC Batch No: 051597PCBS-1
Date Analyzed: 20-MAY-97

Analyte	Method:EPA 8081	Concentration: ug/kg
PCB - Aroclor 1221	< 10.0	
PCB - Aroclor 1232	< 10.0	
PCB - Aroclor 1242 (1016)	< 10.0	
PCB - Aroclor 1248	< 10.0	
PCB - Aroclor 1254	< 10.0	
PCB - Aroclor 1260	< 10.0	

Notes:

NEI/GTEL Client ID: FWH03FWH03 QUALITY CONTROL RESULTS
Login Number: W7050194 Organochlorine Pesticides and/or PCB
Project ID (number): DP-43 Method: EPA
Project ID (name): HOLLOMAN AFB/DP-43/HOLLOMAN/NM Matrix: So

Laboratory Control Sample Summary

Analyte	Spike Amount	Check Sample Concentration	QC Percent Recovery	Acceptability Limits Recovery
EPA 8081 Units:ug/kg	QC Batch:051597PCBS-2			
PCB - Aroclor 1260	83.3	75.4	90.5	10-127%

Notes:
Acceptability limits are derived from EPA Method 8080 criteria.

NEI/GTEL Client ID: FWH03FWH03 QUALITY CONTROL RESULTS
'ogin Number: W7050194 Organochlorine Pesticides and/or PCB
ɔject ID (number): DP-43 Method: EPA 8081
Project ID (name): HOLLOMAN AFB/DP-43/HOLLOMAN/NM Matrix: Solids

Matrix Spike(MS) and Matrix Spike Duplicate(MSD) Results

GTEL Sample ID:W7050194-12 MS ID:MS05019412 MSD ID:MD05019412
Analysis Date: 21-MAY-97 21-MAY-97 21-MAY-97

Units: ug/kg	Sample	Spikes Added		MS	MS	MSD	MSD		Acceptability Limits	
Analyte	Conc.	MS	MSD	Conc.	% Rec.	Conc.	% Rec.	RPD	RPD	%Rec.
PCB - Aroclor 1260	< 10.0(0.000)	82.8	82.5	75.5	91.2	82.7	100.	9.20	30	10-127

Notes:
Values in parentheses in the sample concentration column are used for % recovery calculations.
Acceptability limits are derived from EPA Method 8080 criteria.

ANALYTICAL RESULTS
Results For Multiple Methods

NEI/GTEL Client ID: FWH03FWH03
Login Number: W7050194
Project ID (number): DP-43
Project ID (name): HOLLOMAN AFB/DP-43/HOLLOMAN/NM

Method: See Below
Matrix: Solids

	NEI/GTEL Sample Number	W7050194-13	W7050194-14	--	--
	Client ID	DP43SP01	DP43SP02	--	--
	Date Sampled	05/09/97	05/09/97	--	--
ASTM D93	Date Analyzed	05/21/97	05/21/97	--	--
ASTM D93	Dilution Factor	1.00	1.00	--	--
EPA 9010A	Date Prepared	05/15/97	05/15/97	--	--
EPA 9010A	Date Analyzed	05/15/97	05/15/97	--	--
EPA 9010A	Dilution Factor	1.00	1.00	--	--
EPA 9045B	Date Analyzed	05/16/97	05/16/97	--	--
EPA 9045B	Dilution Factor	1.00	1.00	--	--
EPA SW 846, CH. 7	Date Prepared	05/21/97	05/21/97	--	--
EPA SW 846, CH. 7	Date Analyzed	05/21/97	05/21/97	--	--
EPA SW 846, CH. 7	Dilution Factor	1.00	1.00	--	--

Analyte		Reporting Limit	Units	Concentration:Dry Weight			
Inorganics (MT, WC)							
Total Cyanide	EPA 9010A	2.0	mg/kg	< 2.0	< 2.0	--	--
Flashpoint (Closed Cup)	ASTM D93	70.0	deg F	> 200.	> 200.	--	--
pH	EPA 9045B	0.	pH	8.2	8.3	--	--
Reactive Sulfide	EPA SW 846, CH.	25.	mg/kg	< 25.	< 25.	--	--
Percent Solids	--		%	81.1	84.2	--	--

Notes:

Dilution Factor:

Dilution factor indicates the adjustments made for sample dilution.

ASTM D93:

Annual Book of ASTM Standards, 1983 Revision.

EPA 9010A, EPA 9045B, EPA SW 846, CH. 7:

"Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW-846, Third Edition including Update 2.

ANALYTICAL RESULTS
Paint Filter

NEI/GTEL Client ID: FWH03FWH03
'ogin Number: W7050194
oject ID (number): DP-43
Project ID (name): HOLLOMAN AFB/DP-43/HOLLOMAN/NM

Method: EPA 9095
Matrix: Solids

NEI/GTEL Sample Number	W7050194-13	W7050194-14	--	--
Client ID	DP43SP01	DP43SP02	--	--
Date Sampled	05/09/97	05/09/97	--	--
Date Analyzed	05/19/97	05/19/97	--	--
Dilution Factor	1.00	1.00	--	--

Analyte	Reporting Limit	Units	Concentration:Wet Weight			
Paint Filter Liquids Test	--	std	Not Present	Not Present	--	--
Percent Solids	--	%	81.1	84.2	--	--

Notes:

Dilution Factor:

Dilution factor indicates the adjustments made for sample dilution.

EPA 9095:

"Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW-846, Third Edition including Update 2.

Project ID (Number): DP-43
Project ID (Name): Holloman AFB
DP-43
Holloman, NM
Work Order Number: W7-05-0194
Date Reported: 05-22-97

QA NONCONFORMANCE SUMMARY

Inorganics

1.0 Sample Handling

1.1 Sample handling and holding time criteria were not met for **zero** samples.

2.0 Initial Calibration Verification

2.1 The criteria for the calibration verification QC Check Sample was exceeded for **zero** samples as shown in Table 2.

3.0 Method Blanks

3.1 **Zero** target analytes were found in the method blank as shown in Table 3.

4.0 Matrix Spike (MS) Accuracy

4.1 The recovery limits were exceeded in the matrix spike for **zero** analyte as shown in Table 4.

5.0 Matrix Spike Duplicate Precision

5.1 The maximum percent difference (RPD) was exceeded for **zero** analytes in the duplicate samples as shown in Table 5.

6.0 Laboratory Control Sample

6.1 The recovery limits were not met for **zero** analytes in the Laboratory Control Sample as shown in Table 6.

Project ID (Number): DP-43
Project ID (Name): Holloman AFB
DP-43
Holloman, NM
Work Order Number: W7-05-0194
Date Reported: 05-22-97

Table 2A

INITIAL CALIBRATION VERIFICATION QC CHECK SAMPLE REPORT

Inorganics

Analyte	Expected Result	Observed Result	Units	Recovery, %	Acceptability Limits, %[a]
Total Cyanide	0.194	0.194	mg/L	100	90-110

a Acceptability limits established by laboratory practice.

Table 3

BLANK REPORT

Inorganics

Analyte	Initial Calibration Blank	Units	Preparation Blank	Units
Total Cyanide	<0.02	mg/L	<2.0	mg/Kg
Reactivity Sulfide	NA	mg/L	<25	mg/Kg

NA Not Applicable

Project ID (Number): DP-43
Project ID (Name): Holloman AFB
DP-43
Holloman, NM
Work Order Number: W7-05-0194
Date Reported: 05-22-97

Table 4

MATRIX SPIKE (MS) RECOVERY SUMMARY

Inorganics

Sample Spiked: Total Cyanide W7050151-01
Sample Spiked: Reactivity Sulfide W7050194-13

Analyte	MS Sample Result	Sample Result	Amount Added	Units	MS, % Recovery	Acceptability Limits, %[a]
Total Cyanide	17.2	<2.0	19.2	mg/Kg	89.9	80-120
Reactivity Sulfide	378	<25	556	mg/Kg	68.0	60-140

a Acceptability limits established by laboratory practice.

Table 5

MATRIX SPIKE DUPLICATE SAMPLE RESULTS
AND RELATIVE PERCENT DIFFERENCE (RPD) SUMMARY

Inorganics

Analyte	Matrix Spike Result	Matrix Spike Duplicate Result	Units	RPD, %	Maximum RPD, %[a]
Total Cyanide	17.2	17.8	mg/Kg	3.20	20
Reactivity Sulfide	378	400	mg/Kg	5.66	20

a Acceptability limits established by laboratory practice.

Table 6

LABORATORY CONTROL SAMPLE RESULTS

Inorganics

Analyte	Expected Result	Observed Result	Units	Recovery, %	Acceptability Limits, %[a]
Total Cyanide	19.4	17.4	mg/Kg	89.7	80-120
Reactivity Sulfide	556	396	mg/Kg	71.2	60-140

a Acceptability limits established by laboratory practice.

ANALYTICAL RESULTS
Volatile Organics

NEI/GTEL Client ID: FWH03FWH03
Login Number: W7050194
Project ID (number): DP-43
Project ID (name): HOLLOMAN AFB/DP-43/HOLLOMAN/NM

Method: EPA 8021A
Matrix: Solids

NEI/GTEL Sample Number	W7050194-13	W7050194-14	--	--
Client ID	DP43SP01	DP43SP02	--	--
Date Sampled	05/09/97	05/09/97	--	--
Date Analyzed	05/19/97	05/19/97	--	--
Dilution Factor	1.00	1.00	--	--

Analyte	Reporting Limit	Units	Concentration:Dry Weight			
Benzene	0.05	mg/kg	< 0.05	< 0.05	--	--
Toluene	0.10	mg/kg	< 0.10	< 0.10	--	--
Ethylbenzene	0.10	mg/kg	< 0.10	< 0.10	--	--
Xylenes (total)	0.20	mg/kg	< 0.20	< 0.20	--	--
Percent Solids	--	%	81.1	84.2	--	--

Notes:

Dilution Factor:

Dilution factor indicates the adjustments made for sample dilution.

EPA 8021A:

EPA 8021A: "Test Methods for Evaluating Solid Waste, Physical and Chemical Methods", SW-846, Third Edition, Revision 1, US EPA September 1994.

NEI/GTEL Client ID: FWH03FWH03 QUALITY CONTROL RESULTS
Login Number: W7050194 Volatile Organics
Project ID (number): DP-43 Method: EPA 8
Project ID (name): HOLLOMAN AFB/DP-43/HOLLOMAN/NM Matrix: So

Surrogate Results

QC Batch No.	Reference	Sample ID	TFT	BFB
Method: EPA 8021A		Acceptability Limits:	70-130%	70-130%
051997GC17-1	CV0519972017	Calibration Verifi	115.	108.
051997GC17-3	BW05199717	Method Blank Water	88.9	99.3
051997GC17-4	BS05199717	Method Blank Soil	115.	111.
051997GC17-5	LS05199717	Laboratory control	118.	117.
051997GC17-6	LSD05199717	LCS Soil Duplicate	113.	114.
--	05019413	DP43SP01	114.	111.
--	05019414	DP43SP02	112.	102.

Notes:
*: Indicates values outside of acceptability limits. See Nonconformance Summary.

NEI/GTEL Client ID: FWH03FWH03 QUALITY CONTROL RESULTS
Login Number: W7050194 Volatile Organics
Project ID (number): DP-43 Method: EPA 8021A
Project ID (name): HOLLOMAN AFB/DP-43/HOLLOMAN/NM Matrix: Solids

Method Blank Results

QC Batch No: 051997GC17-3
Date Analyzed: 19-MAY-97

Analyte	Method:EPA 8021A Concentration: ug/L
Benzene	< 0.500
Toluene	< 1.00
Ethylbenzene	< 1.00
Xylenes (Total)	< 2.00

Notes:

NEI/GTEL Client ID: FWH03FWH03 QUALITY CONTROL RESULTS
Login Number: W7050194 Volatile Organics
Project ID (number): DP-43 Method: EPA [illegible]
Project ID (name): HOLLOMAN AFB/DP-43/HOLLOMAN/NM Matrix: S[illegible]s

Method Blank Results

QC Batch No: 051997GC17-4
Date Analyzed: 19-MAY-97

Analyte	Method:EPA 8021A	Concentration: mg/kg
Benzene	< 0.0500	
Toluene	< 0.100	
Ethylbenzene	< 0.100	
Xylenes (Total)	< 0.200	

Notes:

NEI/GTEL Client ID: FWH03FWH03 QUALITY CONTROL RESULTS
Login Number: W7050194 Volatile Organics
ject ID (number): DP-43 Method: EPA 8021A
ject ID (name): HOLLOMAN AFB/DP-43/HOLLOMAN/NM Matrix: Solids

Calibration Verification Sample Summary

Analyte	Spike Amount	Check Sample Concentration	QC Percent Recovery	Acceptability Limits Recovery
EPA 8021A Units:ug/L	QC Batch:051997GC17-1			
Benzene	20.0	19.3	96.5	85-115%
Toluene	20.0	18.5	92.5	85-115%
Ethylbenzene	20.0	19.9	99.5	85-115%
Xylenes (Total)	60.0	58.7	97.8	85-115%

Notes:

NEI/GTEL Client ID: FWH03FWH03 QUALITY CONTROL RESULTS
Login Number: W7050194 Volatile Organics
Project ID (number): DP-43 Method: EPA 80
Project ID (name): HOLLOMAN AFB/DP-43/HOLLOMAN/NM Matrix: So

Duplicate Sample Results

Analyte	Original Concentration	Duplicate Concentration	RPD, %	Acceptability Limits, %
EPA 8021A Units: ug/L	QC Batch: 051997GC17-8	GTEL Sample ID: W7050232-10		Client ID: Batch QC
Benzene	456.	469.	2.81	23.9
Toluene	526.	539.	2.44	27.2
Ethylbenzene	329.	337.	2.40	21.6
Xylenes (Total)	3340	3400	1.78	22.0

Notes:

NEI/GTEL Client ID: FWH03FWH03 QUALITY CONTROL RESULTS
Login Number: W7050194 Volatile Organics
Project ID (number): DP-43 Method: EPA 8021A
Project ID (name): HOLLOMAN AFB/DP-43/HOLLOMAN/NM Matrix: Solids

Matrix Spike(MS) Results

GTEL Sample ID:W7050232-01 MS ID:MS05023201
Analysis Date: 19-MAY-97 19-MAY-97

Units: ug/L Analyte	Sample Conc.	Spike Added	MS Conc.	MS % Rec.	Acceptability Limits %Rec.
Benzene	< 0.05(0.000)	20.0	19.5	97.5	80-120
Toluene	< 0.10(0.000)	20.0	18.6	93.0	80-120
Ethylbenzene	< 0.10(0.000)	20.0	20.0	100.	80-120
Xylenes (Total)	< 0.20(0.000)	60.0	58.4	97.3	80-120

Notes:
Values in parentheses in the sample concentration column are used for % recovery calculations.

NEI/GTEL Client ID: FWH03FWH03
Login Number: W7050194
Project ID (number): DP-43
Project ID (name): HOLLOMAN AFB/DP-43/HOLLOMAN/NM

QUALITY CONTROL RESULTS

Volatile Organics
Method: EPA 8021A
Matrix: Soil

Laboratory Control Sample (LCS) and Laboratory Control Duplicate Results

Analyte	Spike Amount	LCS Concentration	LCS Recovery, %	LCS Duplicate Concentration	LCS Duplicate Recovery, %	RPD, %	Acceptability Limits RPD, %	Acceptability Limits Recovery, %
EPA 8021A Units: ug/L	QC Batch:051997GC17-6							
Benzene	5.00	5.73	115.	5.86	117.	1.72	28.3	80-120%
Toluene	5.00	5.44	109.	5.56	111.	1.82	30	80-120%
Ethylbenzene	5.00	5.75	115.	5.89	118.	2.58	30	80-120%
Xylenes (Total)	15.0	16.9	113.	17.5	117.	3.48	30	80-120%

Notes:

NEI/GTEL Client ID: FWH03FWH03 QUALITY CONTROL RESULTS
Login Number: W7050194 Volatile Organics
Project ID (number): DP-43 Method: EPA 8021A
Project ID (name): HOLLOMAN AFB/DP-43/HOLLOMAN/NM Matrix: Solids

Conformance/Non-Conformance Summary

(X = Requirements Met * = See Comments -- = Not Required NA = Not Applicable)

Conformance Item	Volatile Organics	Semi-Volatile Organics	Inorganics (MT, WC)
GC/MS Tune	--	--	NA
Initial Calibration	--	--	--
Continuing Calibration	X	--	--
Surrogate Recovery	X	--	NA
Holding Time	X	--	--
Method Accuracy	X	--	--
Method Precision	X	--	--
Blank Contamination	X	--	--

Comments:

ANALYTICAL RESULTS
Total Petroleum Hydrocarbons

NEI/GTEL Client ID: FWH03FWH03
Login Number: W7050194
Project ID (number): DP-43
Project ID (name): HOLLOMAN AFB/DP-43/HOLLOMAN/NM

Method: EPA 418.1
Matrix: Solids

NEI/GTEL Sample Number	W7050194-01	W7050194-02	W7050194-03	W7050194-04
Client ID	DP430108	DP430208	DP430308	DP430408
Date Sampled	05/09/97	05/09/97	05/09/97	05/09/97
Date Prepared	05/16/97	05/16/97	05/16/97	05/16/97
Date Analyzed	05/19/97	05/19/97	05/19/97	05/19/97
Dilution Factor	1.00	1.00	1.00	1.00

Analyte	Reporting Limit	Units	Concentration:Dry Weight			
Total Petroleum Hydrocarbons	20.	mg/kg	< 20.	< 20.	34.	< 20.
Percent Solids	--	%	85.4	86.3	84.1	83.9

Notes:

Dilution Factor:

Dilution factor indicates the adjustments made for sample dilution.

EPA 418.1:

Extraction is modified for soils by using EPA Method 9071 (soxhlet extraction). "Methods for Chemical Analysis of Water and Wastes", EPA 600/4-79-020, USEPA EMSL, Cincinnati, OH, Revised, March 1983.

ANALYTICAL RESULTS
Total Petroleum Hydrocarbons

NEI/GTEL Client ID: FWH03FWH03
Batch Number: W7050194
Project ID (number): DP-43
Project ID (name): HOLLOMAN AFB/DP-43/HOLLOMAN/NM

Method: EPA 418.1
Matrix: Solids

NEI/GTEL Sample Number	W7050194-05	W7050194-06	W7050194-07	--
Client ID	DP430508	DP43SP01	DP43SP02	--
Date Sampled	05/09/97	05/13/97	05/13/97	--
Date Prepared	05/16/97	05/16/97	05/16/97	
Date Analyzed	05/19/97	05/19/97	05/19/97	--
Dilution Factor	1.00	1.00	1.00	--

Analyte	Reporting Limit	Units	Concentration:Wet Weight			
Total Petroleum Hydrocarbons	20.	mg/kg	< 20.	410	370	--
Percent Solids	--	%	84.3	81.1	84.2	--

Notes:

Dilution Factor:

Dilution factor indicates the adjustments made for sample dilution.

EPA 418.1:

Extraction is modified for soils by using EPA Method 9071 (soxhlet extraction). "Methods for Chemical Analysis of Water and Wastes", EPA 600/4-79-020, USEPA EMSL, Cincinnati, OH, Revised, March 1983.

NEI/GTEL Client ID: FWH03FWH03 QUALITY CONTROL RESULTS
Login Number: W7050194 Total Petroleum Hydrocarbons
Project ID (number): DP-43 Method: EPA
Project ID (name): HOLLOMAN AFB/DP-43/HOLLOMAN/NM Matrix: So

Method Blank Results

QC Batch No: 051697IRSX-1
Date Analyzed: 19-MAY-97

Analyte	Method:EPA 418.1	Concentration: mg/kg
Total Petroleum Hydrocarbons	< 20.0	

Notes:

NEI/GTEL Client ID: FWH03FWH03

QUALITY CONTROL RESULTS

Login Number: W7050194

Project ID (number): DP-43

Project ID (name): HOLLOMAN AFB/DP-43/HOLLOMAN/NM

Total Petroleum Hydrocarbons
Method: EPA 418.1
Matrix: Solids

Calibration Verification Sample Summary

Analyte	Spike Amount	Check Sample Concentration	QC Percent Recovery	Acceptability Limits Recovery
EPA 418.1 Units:mg/L	QC Batch:051697IRSX-6			
Total Petroleum Hydrocarbons	5.00	5.06	101.	90-110%

Notes:

NEI/GTEL Client ID: FWH03FWH03 QUALITY CONTROL RESULTS
Login Number: W7050194 Total Petroleum Hydrocarbons
Project ID (number): DP-43 Method: EPA 418.1
Project ID (name): HOLLOMAN AFB/DP-43/HOLLOMAN/NM Matrix: So

Laboratory Control Sample Summary

Analyte	Spike Amount	Check Sample Concentration	QC Percent Recovery	Acceptability Limits Recovery
EPA 418.1 Units:mg/kg	QC Batch:051697IRSX-2			
Total Petroleum Hydrocarbons	150.	181.	121.	42-141%

Notes:
The accuracy limits are for a fuel oil #2 spike when the calibration is based on the standard reference oil.

NEI/GTEL Client ID: FWH03FWH03 QUALITY CONTROL RESULTS
Login Number: W7050194 Total Petroleum Hydrocarbons
Project ID (number): DP-43 Method: EPA 418.1
Project ID (name): HOLLOMAN AFB/DP-43/HOLLOMAN/NM Matrix: Solids

Matrix Spike(MS) and Matrix Spike Duplicate(MSD) Results

GTEL Sample ID:W7050194-01 MS ID:MS05019401 MSD ID:MD05019401
Analysis Date: 19-MAY-97 19-MAY-97 19-MAY-97

Units: mg/kg	Sample	Spikes Added		MS	MS	MSD	MSD		Acceptability Limits	
Analyte	Conc.	MS	MSD	Conc.	% Rec.	Conc.	% Rec.	RPD	RPD	%Rec.
Total Petroleum Hydrocarbons	< 10. (0.846)	150.	150.	185.	123.	195.	129.	4.80	50	42-141

Notes:
Values in parentheses in the sample concentration column are used for % recovery calculations.
The accuracy limits are for a fuel oil #2 spike when the calibration is based on the standard reference oil.

NEI/GTEL Client ID: FWH03FWH03
Login Number: W7050194
Project ID (number): DP-43
Project ID (name): HOLLOMAN AFB/DP-43/HOLLOMAN/NM

QUALITY CONTROL RESULTS

Total Petroleum Hydrocarbons
Method: EPA 41
Matrix: Sol

Conformance/Non-Conformance Summary

(X = Requirements Met * = See Comments -- = Not Required NA = Not Applicable)

Conformance Item	Volatile Organics	Semi-Volatile Organics	Inorganics (MT, WC)
GC/MS Tune	--	--	NA
Initial Calibration	--	--	--
Continuing Calibration	--	X	--
Surrogate Recovery	--	--	NA
Holding Time	--	X	--
Method Accuracy	--	X	--
Method Precision	--	X	--
Blank Contamination	--	X	--

Comments:

ANALYTICAL RESULTS
Metals

NEI/GTEL Client ID: FWH03FWH03
Lab Number: W7050194
Project ID (number): DP-43
Project ID (name): HOLLOMAN AFB/DP-43/HOLLOMAN/NM

Method: EPA 7421
Matrix: Solids

NEI/GTEL Sample Number	W7050194-06	W7050194-07	--	--
Client ID	DP43SP01	DP43SP02	--	--
Date Sampled	05/13/97	05/13/97	--	--
Date Prepared	05/14/97	05/14/97		
Date Analyzed	05/14/97	05/14/97	--	--
Dilution Factor	1.00	1.00	--	--

Analyte	Reporting Limit	Units	Concentration:Wet Weight			
Lead	0.40	mg/kg	0.45	0.49	--	--
Percent Solids	--	%	81.1	84.2	--	--

Notes:

Dilution Factor:

Dilution factor indicates the adjustments made for sample dilution.

EPA 7421:

Digestion by EPA Method 3050A. "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW-846, Third Edition including Update 2.

Project Number: DP-43
Project Name: Holloman AFB
DP-43
Holloman, NM
Work Order Number: W7-05-0194
Date Reported: 05-19-97

QA NONCONFORMANCE SUMMARY

1.0 Sample Handling

1.1 Sample handling and holding time criteria were not met for zero samples.

2.0 Initial Calibration Verification

2.1 The validity for the calibration verification was exceeded for zero samples as shown in Table 2.

3.0 Method Blanks

3.1 Zero target elements were found in the method blank as shown in Table 3.

4.0 Matrix Spike (MS) Accuracy

4.1 The recovery limits were exceeded in the matrix spike and matrix spike duplicate for zero elements as shown in Table 4.

5.0 Sample Duplicate Precision

5.1 The maximum percent difference (RPD) was exceeded for zero elements in the matrix spike and matrix spike duplicate samples as shown in Table 4.

6.0 Laboratory Control Sample

6.1 The recovery limits were not met for zero elements for the laboratory control samples as shown in Table 5.

Project Number: DP-43
Project Name: Holloman AFB
DP-43
Holloman, NM
Work Order Number: W7-05-0194
Date Reported: 05-19-97

Table 2

INITIAL CALIBRATION VERIFICATION,
QC CHECK SAMPLE REPORT

Lead in Soil

Analyte	Expected Result, ug/L	Observed Result, ug/L	Recovery, %	QC Limits, %[a]
Lead	20.0	19.6	98.0	90-110

a Acceptability limits as per EPA Contract Laboratory Program

Table 3

BLANK REPORT

Lead in Soil

Analyte	Initial Calibration Blank, ug/L	Preparation Blank, mg/Kg
Lead	<4.00	<0.40

<# Not detected at the indicated detection limit (#)

Project Number: DP-43
Project Name: Holloman AFB
DP-43
Holloman, NM
Work Order Number: W7-05-0194
Date Reported: 05-19-97

Table 4

MATRIX SPIKE AND MATRIX SPIKE DUPLICATE SUMMARY

Lead in Soil
EPA Method 7421

Sample Spiked: W7050194-06

Analyte	Spike Added, mg/kg	Sample Concentration, mg/kg	MS Concentration, mg/kg	MS Percent Recovery	Acceptability Limits, %[a]
Lead	1.79	0.45	1.99	86.2	75-125

Analyte	Spike Added, mg/kg	MSD Concentration, mg/kg	MSD Percent Recovery	RPD %	Acceptability Limits, %[a]
					RPD
Lead	1.72	2.20	102	16.3	20.0

a Acceptability limits as per EPA Contract Laboratory Program.

b Indicates a result outside acceptability limits.

NA Not applicable; initital sample concentration is greater than four times the spike amount.

Project Number: DP-43
Project Name: Holloman AFB
DP-43
Holloman, NM
Work Order Number: W7-05-0194
Date Reported: 05-19-97

Table 5

LABORATORY CONTROL SAMPLE RESULTS

Lead in Soil

Analyte	Expected Result, mg/Kg	Observed Result, mg/Kg	Recovery, %	Acceptability Limits, %[a]
Lead	2.00	1.89	94.5	80-120

a Acceptability limits established by laboratory practice

NEI/GTEL
ENVIRONMENTAL LABORATORIES, INC.

Midwest Region
4211 May Avenue
Wichita, KS 67209
(316) 945-2624
(800) 633-7936
(316) 945-0506 (FAX)

May 28, 1997

Dan Holmquist
Foster Wheeler Environmental Corporation
241 Arkansas St. /Behind Rv Storage
Holloman A F B, NM 88330

RE:	NEI/GTEL Client ID:	FWH03FWH03
	Login Number:	W7050194
	Project ID (number):	DP-43
	Project ID (name):	HOLLOMAN AFB/DP-43/HOLLOMAN/NM

Dear Dan Holmquist:

This report, previously dated 05/23/97, is a reissue.

Enclosed please find the analytical results for the samples received by NEI/GTEL Environmental Laboratories, Inc. on 05/14/97 under Chain-of-Custody Number(s) 47748.

A formal Quality Assurance/Quality Control (QA/QC) program is maintained by NEI/GTEL, which is designed to meet or exceed the EPA requirements. Analytical work for this project met QA/QC criteria unless otherwise stated in the footnotes. This report is to be reproduced only in full.

NEI/GTEL is certified by the U.S. Army Corp of Engineers Laboratory Validation, expiration date March 18, 1997.

If you have any questions regarding this analysis, or if we can be of further assistance, please call our Customer Service Representative.

Sincerely,
NEI/GTEL Environmental Laboratories, Inc.

Customer Service Manager

Terry R. Loucks
Laboratory Director

ANALYTICAL RESULTS
Organochlorine Pesticides and/or PCB's

NEI/GTEL Client ID: FWH03FWH03
gin Number: W7050194
roject ID (number): DP-43
Project ID (name): HOLLOMAN AFB/DP-43/HOLLOMAN/NM

Method: EPA 8081
Matrix: Solids

NEI/GTEL Sample Number	W7050194-13	W7050194-14	--	--
Client ID	DP43SP01	DP43SP02	--	--
Date Sampled	05/09/97	05/09/97	--	--
Date Prepared	05/22/97	05/22/97		
Date Analyzed	05/27/97	05/28/97	--	--
Dilution Factor	1.00	1.00	--	--

Analyte	Reporting Limit	Units	Concentration:Wet Weight			
PCB - Aroclor 1221	10.	ug/kg	< 10.	< 10.	--	--
PCB - Aroclor 1232	10.	ug/kg	< 10.	< 10.	--	--
PCB - Aroclor 1242 (1016)	10.	ug/kg	< 10.	< 10.	--	--
PCB - Aroclor 1248	10.	ug/kg	< 10.	< 10.	--	--
PCB - Aroclor 1254	10.	ug/kg	< 10.	< 10.	--	--
PCB - Aroclor 1260	10.	ug/kg	< 10.	< 10.	--	--
Percent Solids	--	%	81.1	84.2	--	--

Notes:

Dilution Factor:

Dilution factor indicates the adjustments made for sample dilution.

EPA 8081:

Extraction by EPA METHOD 3550 (sonication). "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW-846, Third Edition including pdate 2.

NEI/GTEL Client ID: FWH03FWH03
Login Number: W7050194
Project ID (number): DP-43
Project ID (name): HOLLOMAN AFB/DP-43/HOLLOMAN/NM

QUALITY CONTROL RESULTS

Organochlorine Pesticides and/or PCB
Method: EPA 8
Matrix: Sol

Conformance/Non-Conformance Summary

(X = Requirements Met * = See Comments -- = Not Required NA = Not Applicable)

Conformance Item	Volatile Organics	Semi-Volatile Organics	Inorganics (MT, WC)
GC/MS Tune	--	--	NA
Initial Calibration	--	--	--
Continuing Calibration	--	--	--
Surrogate Recovery	--	X	NA
Holding Time	--	X	--
Method Accuracy	--	X	--
Method Precision	--	X	--
Blank Contamination	--	X	--

Comments:

NEI/GTEL Client ID: FWH03FWH03 QUALITY CONTROL RESULTS
Login Number: W7050194 Organochlorine Pesticides and/or PCB
Project ID (number): DP-43 Method: EPA 8081
Project ID (name): HOLLOMAN AFB/DP-43/HOLLOMAN/NM Matrix: Solids

Surrogate Results

QC Batch No.	Reference	Sample ID	TCMX	DCBP
Method: EPA 8081		Acceptability Limits:	37.7-126%	35.6-155%
052297PCBS-1	BS052297PCB	Method Blank Soil	87.4	95.2
052297PCBS-2	LS052297PCB	Laboratory control	78.0	94.2
052297PCBS-4	MS05019413	Matrix Spike	72.0	95.8
052297PCBS-5	MD05019413	Matrix Spike Dupli	64.7	84.7
--	05019408	DP430108	83.3	95.1
--	05019409	DP430208	82.1	93.3
--	05019410	DP430308	68.0	75.8
--	05019411	DP430408	80.6	85.7
--	05019412	DP430508	77.6	90.3
--	05019413	DP43SP01	62.1	83.0
--	05019414	DP43SP02	70.8	91.1

Notes:

*: Indicates values outside of acceptability limits. See Nonconformance Summary.

Data is acceptable as long as at least one surrogate has a recovery within acceptability limits.

Acceptability limits are derived from statistical analysis of laboratory samples.

NEI/GTEL Client ID: FWH03FWH03 QUALITY CONTROL RESULTS
Login Number: W7050194 Organochlorine Pesticides and/or PCB
Project ID (number): DP-43 Method: EPA
Project ID (name): HOLLOMAN AFB/DP-43/HOLLOMAN/NM Matrix: So

Method Blank Results

QC Batch No: 052297PCBS-1
Date Analyzed: 27-MAY-97

Analyte	Method:EPA 8081	Concentration: ug/kg
PCB - Aroclor 1221	< 10.0	
PCB - Aroclor 1232	< 10.0	
PCB - Aroclor 1242 (1016)	< 10.0	
PCB - Aroclor 1248	< 10.0	
PCB - Aroclor 1254	< 10.0	
PCB - Aroclor 1260	< 10.0	

Notes:

NEI/GTEL Client ID: FWH03FWH03

QUALITY CONTROL RESULTS

Login Number: W7050194

Organochlorine Pesticides and/or PCB

Project ID (number): DP-43

Method: EPA 8081

Project ID (name): HOLLOMAN AFB/DP-43/HOLLOMAN/NM

Matrix: Solids

Laboratory Control Sample Summary

Analyte	Spike Amount	Check Sample Concentration	QC Percent Recovery	Acceptability Limits Recovery
EPA 8081 Units:ug/kg	QC Batch:052297PCBS-2			
PCB - Aroclor 1260	83.3	75.8	91.0	10-127%

Notes:

Acceptability limits are derived from EPA Method 8080 criteria.

NEI/GTEL Client ID: FWH03FWH03 QUALITY CONTROL RESULTS
Login Number: W7050194 Organochlorine Pesticides and/or PCB
Project ID (number): DP-43 Method: EPA 8081
Project ID (name): HOLLOMAN AFB/DP-43/HOLLOMAN/NM Matrix: Sc

Matrix Spike(MS) and Matrix Spike Duplicate(MSD) Results

GTEL Sample ID:W7050194-13 MS ID:MS05019413 MSD ID:MD05019413
Analysis Date: 27-MAY-97 28-MAY-97 28-MAY-97

Units: ug/kg	Sample	Spikes Added		MS	MS	MSD	MSD		Acceptability Limits	
Analyte	Conc.	MS	MSD	Conc.	% Rec.	Conc.	% Rec.	RPD	RPD	%Rec.
PCB - Aroclor 1260	< 10.0(0.000)	82.6	80.8	70.3	85.1	62.0	76.7	10.4	30	10-127

Notes:
Values in parentheses in the sample concentration column are used for % recovery calculations.
Acceptability limits are derived from EPA Method 8080 criteria.

APPENDIX B

SWMU 107 (OT-11)

NEI/GTEL
ENVIRONMENTAL LABORATORIES, INC.

Midwest Region
4211 May Avenue
Wichita, KS 67209
(316) 945-2624
(800) 633-7936
(316) 945-0506 (FAX)

May 22, 1996

Dan Holmquist
Foster Wheeler Environmental Corporation
241 Arkansas St. /Behind Rv Storage
Holloman Afb, NM 88330

RE:	GTEL Client ID:	FWH03FWH03
	Login Number:	W6050309
	Project ID (number):	D08 WAD 33
	Project ID (name):	HOLLOMAN AFB/D08 WAD 33/NM

Dear Dan Holmquist:

Enclosed please find the analytical results for the samples received by GTEL Environmental Laboratories, Inc. on 05/17/96 under Chain-of-Custody Number(s) 44198.

A formal Quality Assurance/Quality Control (QA/QC) program is maintained by GTEL, which is designed to meet or exceed the EPA requirements. Analytical work for this project met QA/QC criteria unless otherwise stated in the footnotes. This report is to be reproduced only in full.

NEI/GTEL is certified by the U.S. Army Corp of Engineers Laboratory Validation, expiration date March 18, 1997.

If you have any questions regarding this analysis, or if we can be of further assistance, please call our Customer Service Representative.

Sincerely,
GTEL Environmental Laboratories, Inc.

Martha E Ward Client Services Manager

Terry R. Loucks
Laboratory Director

RECEIVED JUN 03 1996

ANALYTICAL RESULTS
Total Petroleum Hydrocarbons

GTEL Client ID: FWH03FWH03
gin Number: W6050309
oject ID (number): D08 WAD 33
Project ID (name): HOLLOMAN AFB/D08 WAD 33/NM

Method: EPA 418.1
Matrix: Solids

GTEL Sample Number	W6050309-01	W6050309-02	W6050309-03	W6050309-04
Client ID	OT11-01-04	OT11-02-04	OT11-03-04	OT11-04-04
Date Sampled	05/15/96	05/15/96	05/15/96	05/15/96
Date Prepared	05/20/96	05/20/96	05/20/96	05/20/96
Date Analyzed	05/21/96	05/21/96	05/21/96	05/21/96
Dilution Factor	1.00	1.00	1.00	1.00

Analyte	Reporting Limit	Units	Concentration:Dry Weight			
Total Petroleum Hydrocarbons	20.	mg/kg	160	100	350	130
Percent Solids	--	%	84.7	85.7	85.6	84.5

Notes:

Dilution Factor:

Dilution factor indicates the adjustments made for sample dilution.

EPA 418.1:

Extraction is modified for soils by using EPA Method 9071 (soxhlet extraction). "Methods for Chemical Analysis of Water and Wastes", EPA 600/4-79-020. USEPA EMSL, Cincinnati, OH, Revised, March 1983.

ANALYTICAL RESULTS
Total Petroleum Hydrocarbons

GTEL Client ID: FWH03FWH03
Login Number: W6050309
Project ID (number): D08 WAD 33
Project ID (name): HOLLOMAN AFB/D08 WAD 33/NM

Method: EPA 418.1
Matrix: Solids

GTEL Sample Number	W6050309-05	W6050309-06	--	--
Client ID	OT11-05-04	OT11SP	--	--
Date Sampled	05/15/96	05/15/96	--	--
Date Prepared	05/20/96	05/20/96		
Date Analyzed	05/21/96	05/21/96	--	--
Dilution Factor	1.00	1.00	--	--

Analyte	Reporting Limit	Units	Concentration:Dry Weight			
Total Petroleum Hydrocarbons	20.	mg/kg	85.	330	--	--
Percent Solids	--	%	85.2	83.2	--	--

Notes:

Dilution Factor:

Dilution factor indicates the adjustments made for sample dilution.

EPA 418.1:

Extraction is modified for soils by using EPA Method 9071 (soxhlet extraction). "Methods for Chemical Analysis of Water and Wastes", EPA 600/4-79-020, USEPA EMSL, Cincinnati, OH, Revised, March 1983.

GTEL Client ID: FWH03FWH03

QUALITY CONTROL RESULTS

Login Number: W6050309

Total Petroleum Hydrocarbons

Project ID (number): D08 WAD 33

Method: EPA 418.1

Project ID (name): HOLLOMAN AFB/D08 WAD 33/NM

Matrix: Solids

Method Blank Results

QC Batch No: 052096IRSX-1

Date Analyzed: 21-MAY-96

Analyte	Method:EPA 418.1	Concentration: mg/kg
Total Petroleum Hydrocarbons	< 20.0	

Notes:

GTEL Client ID: FWH03FWH03
Login Number: W6050309
Project ID (number): D08 WAD 33
Project ID (name): HOLLOMAN AFB/D08 WAD 33/NM

QUALITY CONTROL RESULTS

Total Petroleum Hydrocarbons
Method: EPA 418
Matrix: Sol

Calibration Verification Sample Summary

Analyte	Spike Amount	Check Sample Concentration	QC Percent Recovery	Acceptability Limits Recovery
EPA 418.1 Units:mg/L	QC Batch:052096IRSX-6			
Total Petroleum Hydrocarbons	5.00	4.92	98.4	90-110%

Notes:

GTEL Client ID: FWH03FWH03

QUALITY CONTROL RESULTS

Login Number: W6050309

Total Petroleum Hydrocarbons

oject ID (number): D08 WAD 33

Method: EPA 418.1

roject ID (name): HOLLOMAN AFB/D08 WAD 33/NM

Matrix: Solids

Laboratory Control Sample Summary

Analyte	Spike Amount	Check Sample Concentration	QC Percent Recovery	Acceptability Limits Recovery
EPA 418.1 **Units:mg/kg**	**QC Batch:052096IRSX-2**			
Total Petroleum Hydrocarbons	150.	195.	130.	40-140%

Notes:

The accuracy limits are for a fuel oil #2 spike when the calibration is based on the standard reference oil.

GTEL Client ID: FWH03FWH03

QUALITY CONTROL RESULTS

Login Number: W6050309

Total Petroleum Hydrocarbons

Project ID (number): D08 WAD 33

Method: EPA 418.1

Project ID (name): HOLLOMAN AFB/D08 WAD 33/NM

Matrix: Sol

Matrix Spike(MS) and Matrix Spike Duplicate(MSD) Results

GTEL Sample ID:W6050309-01 MS ID:MS05030901 MSD ID:MD05030901

Analysis Date: 21-MAY-96 21-MAY-96 21-MAY-96

Units: mg/kg	Sample	Spikes Added		MS	MS	MSD	MSD		Acceptability Limits	
Analyte	Conc.	MS	MSD	Conc.	% Rec.	Conc.	% Rec.	RPD	RPD	%Rec.
Total Petroleum Hydrocarbons	140 (139.)	150.	150.	276.	91.3	316.	118.	25.5	50	42-141

Notes:

Values in parentheses in the sample concentration column are used for % recovery calculations.

The accuracy limits are for a fuel oil #2 spike when the calibration is based on the standard reference oil.

GTEL Client ID: FWH03FWH03

QUALITY CONTROL RESULTS

Login Number: W6050309

Total Petroleum Hydrocarbons

Project ID (number): D08 WAD 33

Method: EPA 418.1

Project ID (name): HOLLOMAN AFB/D08 WAD 33/NM

Matrix: Solids

Conformance/Non-Conformance Summary

(X = Requirements Met * = See Comments -- = Not Required NA = Not Applicable)

Conformance Item	Volatile Organics	Semi-Volatile Organics	Inorganics (MT, WC)
GC/MS Tune	--	--	NA
Initial Calibration	--	--	--
Continuing Calibration	--	X	--
Surrogate Recovery	--	--	NA
Holding Time	--	X	--
Method Accuracy	--	X	--
Method Precision	--	X	--
Blank Contamination	--	X	--

Comments:

ANALYTICAL RESULTS
Volatile Organics

GTEL Client ID: FWH03FWH03
Login Number: W6050309
Project ID (number): D08 WAD 33
Project ID (name): HOLLOMAN AFB/D08 WAD 33/NM

Method: EPA 8021A
Matrix: Solids

GTEL Sample Number	W6050309-06	--	--	--
Client ID	OT11SP	--	--	--
Date Sampled	05/15/96	--	--	--
Date Analyzed	05/21/96	--	--	--
Dilution Factor	1.00	--	--	--

Analyte	Reporting Limit	Units	Concentration:Dry Weight			
Benzene	0.05	mg/kg	< 0.05	--	--	--
Toluene	0.10	mg/kg	< 0.10	--	--	--
Ethylbenzene	0.10	mg/kg	< 0.10	--	--	--
Xylenes (total)	0.20	mg/kg	< 0.20	--	--	--
Percent Solids	--	%	83.2	--	--	--

Notes:

Dilution Factor:

Dilution factor indicates the adjustments made for sample dilution.

EPA 8021A:

EPA 8021A: "Test Methods for Evaluating Solid Waste, Physical and Chemical Methods", SW-846, Third Edition, Revision 1, US EPA September 1994.

GTEL Client ID: FWH03FWH03 QUALITY CONTROL RESULTS
Chain Number: W6050309 Volatile Organics
Project ID (number): D08 WAD 33 Method: EPA 8021A
Project ID (name): HOLLOMAN AFB/D08 WAD 33/NM Matrix: Solids

Conformance/Non-Conformance Summary

(X = Requirements Met * = See Comments -- = Not Required NA = Not Applicable)

Conformance Item	Volatile Organics	Semi-Volatile Organics	Inorganics (MT, WC)
GC/MS Tune	--	--	NA
Initial Calibration	--	--	--
Continuing Calibration	X	--	--
Surrogate Recovery	X	--	NA
Holding Time	X	--	--
Method Accuracy	X	--	--
Method Precision	X	--	--
Blank Contamination	X	--	--

Comments:

GTEL Client ID: FWH03FWH03 QUALITY CONTROL RESULTS
Login Number: W6050309 Volatile Organics
Project ID (number): D08 WAD 33 Method: EPA 80
Project ID (name): HOLLOMAN AFB/D08 WAD 33/NM Matrix: So

Surrogate Results

QC Batch No.	Reference	Sample ID	TFT	BFB
Method: EPA 8021A		Acceptability Limits:	70-130%	70-130%
052096GC10-13	MS05030906	Matrix Spike	103.	111.
052096GC10-14	MD05030906	Matrix Spike Dupli	103.	110.
052096GC10-16	LS05179610	Laboratory control	102.	108.
052096GC10-4	BS05179610	Method Blank Soil	96.2	97.7
052096GC10-5	CV0520962010	Calibration Verifi	93.3	93.5
--	05030906	OT11SP	100.	102.

Notes:
*: Indicates values outside of acceptability limits. See Nonconformance Summary.

GTEL Client ID: FWH03FWH03

QUALITY CONTROL RESULTS

Login Number: W6050309

Volatile Organics

Project ID (number): D08 WAD 33

Method: EPA 8021A

Project ID (name): HOLLOMAN AFB/D08 WAD 33/NM

Matrix: Solids

Method Blank Results

QC Batch No: 052096GC10-4

Date Analyzed: 21-MAY-96

Analyte	Method:EPA 8021A	Concentration: mg/kg
Benzene	< 0.0500	
Toluene	< 0.100	
Ethylbenzene	< 0.100	
Xylenes (Total)	< 0.200	

Notes:

GTEL Client ID: FWH03FWH03 QUALITY CONTROL RESULTS
Login Number: W6050309 Volatile Organics
Project ID (number): D08 WAD 33 Method: EPA 80
Project ID (name): HOLLOMAN AFB/D08 WAD 33/NM Matrix: Sol

Calibration Verification Sample Summary

Analyte		Spike Amount	Check Sample Concentration	QC Percent Recovery	Acceptability Limits Recovery
EPA 8021A	Units:ug/L	QC Batch:052096GC10-5			
Benzene		20.0	19.6	98.0	85-115%
Toluene		20.0	21.3	107.	85-115%
Ethylbenzene		20.0	21.3	107.	85-115%
Xylenes (Total)		60.0	65.8	110.	85-115%

Notes:

GTEL Client ID: FWH03FWH03 QUALITY CONTROL RESULTS

Login Number: W6050309 Volatile Organics

ject ID (number): D08 WAD 33 Method: EPA 8021A

Project ID (name): HOLLOMAN AFB/D08 WAD 33/NM Matrix: Solids

Laboratory Control Sample Summary

Analyte		Spike Amount	Check Sample Concentration	QC Percent Recovery	Acceptability Limits Recovery
EPA 8021A	Units:ug/L	QC Batch:052096GC10-16			
Benzene		5.00	4.65	93.0	80-120%
Toluene		5.00	5.16	103.	80-120%
Ethylbenzene		5.00	5.14	103.	80-120%
Xylenes (Total)		15.0	15.6	104.	80-120%

Notes:

GTEL Client ID: FWH03FWH03
Login Number: W6050309
Project ID (number): D08 WAD 33
Project ID (name): HOLLOMAN AFB/D08 WAD 33/NM

QUALITY CONTROL RESULTS

Volatile Organics
Method: EPA 8
Matrix: Soi

Matrix Spike(MS) and Matrix Spike Duplicate(MSD) Results

GTEL Sample ID:W6050309-06 MS ID:MS05030906 MSD ID:MD05030906
Analysis Date: 21-MAY-96 21-MAY-96 21-MAY-96

Units: mg/kg	Sample	Spikes Added		MS	MS	MSD	MSD		Acceptability Limits	
Analyte	Conc.	MS	MSD	Conc.	% Rec.	Conc.	% Rec.	RPD	RPD	%Rec.
Benzene	< 0.05(0.000)	4.97	4.58	4.83	97.2	4.48	97.8	0.600	28.3	80-120
Toluene	< 0.10(0.000)	4.97	4.58	5.38	108.	5.06	110.	1.80	30	80-120
Ethylbenzene	< 0.10(0.000)	4.97	4.58	5.35	108.	4.91	107.	0.900	30	80-120
Xylenes (Total)	< 0.20(0.000)	14.9	13.7	16.3	109.	15.0	109.	0.00	30	80-120

Notes:
Values in parentheses in the sample concentration column are used for % recovery calculations.

Project Number: DO8 WAD 33
Project Name: Holloman Air Force Base
Holloman, NM
Work Order Number: W6-05-0309
Date Reported: 05-21-96

Table 1

ANALYTICAL RESULTS

TCLP Polychlorinated Biphenyls

EPA Method 8080[a]

GTEL Sample Number		06			
Client Identification		OT11SP			
Date Sampled		05-15-96			
Date Extracted		05-20-96			
Date Analyzed		05-20-96			
Analyte	RL* mg/L	Concentration, mg/L			
PCB[as Aroclor 1221]	0.001	<0.001			
PCB[as Aroclor 1232]	0.001	<0.001			
PCB[as Aroclor 1242 (1016)]	0.001	<0.001			
PCB[as Aroclor 1248]	0.001	<0.001			
PCB[as Aroclor 1254]	0.001	<0.001			
PCB[as Aroclor 1260]	0.001	<0.001			
Dilution Multiplier		1			

A Test Methods for Evaluating Solid Waste, SW-846, Third Edition, Revision 0, US EPA November 1986; Leachate procedure by Method 3510.

* RL = Reporting Limit

Project Number: DO8 WAD 33
Project Name: Holloman Air Force Base
Holloman, NM
Work Order Number: W6-05-0309
Date Reported: 05-21-96

QA NONCONFORMANCE SUMMARY

TCLP Polychlorinated Biphenyls

1.0 Sample Handling

1.1 Sample handling and holding time criteria were not met for **0** samples.

2.0 Surrogate Compound Recoveries

2.1 The recovery limits were exceeded for **0** surrogate compounds as shown in Table 2.

3.0 Matrix Spike (MS) Accuracy

3.1 The recovery limits were exceeded in the matrix spike for **2** compounds as shown in Table 3A and 3B.

3.2 The result of the laboratory control sample demonstrates system accuracy. The high results of the matrix spikes indicate excessive recovery, which is unlikely to affect validity of the reported data, which is below recovery limits.

4.0 Sample Duplicate Precision

4.1 The maximum percent difference (RPD) was exceeded for **0** compounds in the duplicate samples as shown in Table 3B.

5.0 Method Blanks

5.1 **Zero** target compounds were found in the method blank as shown in Table 4.

Project Number: DO8 WAD 33
Project Name: Holloman Air Force Base
Holloman, NM
Work Order Number: W6-05-0309
Date Reported: 05-21-96

Table 2

SURROGATE COMPOUND RECOVERY

TCLP Polychlorinated Biphenyls

GTEL Number	Surrogate Recovery, %	
	2,4,5,6-Tetrachloro-meta-xylene	Decachlorobiphenyl
	Acceptability Limits[a]: 19.6-132%	Acceptability Limits[a]: 51.2-135%
Method Blank 05-20-96	103	101
LCSS 05-20-96	92.9	97.3
W6050309-06	96.5	95.8
W6050309-06MS	115	116
W6050309-06MSD	105	118

a Acceptability limits are derived from statistical analysis of laboratory samples.
MS: Matrix Spike
MSD: Matrix Spike Duplicate
LCSS: Laboratory Control Sample Spike
LCSSD: Laboratory Control Sample Spike Duplicate
* Indicates surrogate recovery outside of acceptability limits.

Project Number: DO8 WAD 33
Project Name: Holloman Air Force Base
Holloman, NM
Work Order Number: W6-05-0309
Date Reported: 05-21-96

Table 3A

LABORATORY CONTROL SAMPLE SPIKE
TCLP Polychlorinated Biphenyls

Sample Spiked: Extraction Fluid #1

Analyte	Spike Added, mg/L	Sample Concentration, mg/L	LCS Concentration, mg/L	LCS Percent Recovery	Acceptability Limits, %[a]
PCB 1260	0.00833	<0.001	0.00898	108	10-127

* Indicates values outside of acceptability limits.
a Acceptability limits as published in EPA Method 8080.
Spike Recovery: 0 out of 1 outside limits.

Table 3B

MATRIX SPIKE AND MATRIX SPIKE DUPLICATE SUMMARY

TCLP Polychlorinated Biphenyls

Sample Spiked: W6050309-06

Analyte	Spike Added, mg/L	Sample Concentration, mg/L	MS Concentration, mg/L	MS Percent Recovery	Acceptability Limits, %[a]
PCB 1260	0.00833	<0.001	0.0115	138*	10-127

Analyte	Spike Added, mg/L	MSD Concentration, mg/L	MSD Percent Recovery	RPD %	Acceptability Limits, %[a]	
					RPD[b]	% Recovery
PCB 1260	0.00833	0.0108	130*	6.0	26.1	10-127

* Indicates values outside of acceptability limits.
a Acceptability limits as published in EPA Method 8080.
b RPD is a provisional limit.

RPD: 0 out of 1 outside limits.
Spike Recovery: 2 out of 2 outside limits.

Project Number: DO8 WAD 33
Project Name: Holloman Air Force Base
Holloman, NM
Work Order Number: W6-05-0309
Date Reported: 05-21-96

Table 4

METHOD BLANK RESULTS

TCLP Polychlorinated Biphenyls

Date Extracted: 05-20-96

Analyte	Concentration, ug/L
Arochlor-1221	<0.001
Arochlor-1232	<0.001
Arochlor-1242 (1016)	<0.001
Arochlor-1248	<0.001
Arochlor-1254	<0.001
Arochlor-1260	<0.001

Project Number: DO8 WAD 33
Project Name: Holloman AFB
Holloman, NM
Work Order Number: W6-05-0309
Date Reported: 05-22-96

ANALYTICAL RESULTS

Polychlorinated Biphenyls in Soil
EPA Method 8080[a]

GTEL Sample Number		01	02	03	04
Client Identification		OT11-01-04	OT11-02-04	OT11-03-04	OT11-04-04
Date Sampled		05-15-96	05-15-96	05-15-96	05-15-96
Date Extracted		05-17-96	05-17-96	05-17-96	05-17-96
Date Analyzed		05-20-96	05-21-96	05-21-96	05-21-96
Analyte	RL* ug/Kg	Concentration, ug/Kg (dry wt.)			
PCB[as Aroclor 1221]	10	<10	<10	<10	<10
PCB[as Aroclor 1232]	10	<10	<10	<10	<10
PCB[as Aroclor 1242 (1016)]	10	<10	<10	<10	<10
PCB[as Aroclor 1248]	10	<10	<10	<10	<10
PCB[as Aroclor 1254]	10	<10	<10	<10	<10
PCB[as Aroclor 1260]	10	<10	<10	<10	<10
Dilution Multiplier		1	1	1	1
Percent Solids		84.7	85.7	85.6	84.5

GTEL Sample Number		05			
Client Identification		OT11-05-04			
Date Sampled		05-15-96			
Date Extracted		05-17-96			
Date Analyzed		05-21-96			
Analyte	RL* ug/Kg	Concentration, ug/Kg (dry wt.)			
PCB[as Aroclor 1221]	10	<10			
PCB[as Aroclor 1232]	10	<10			
PCB[as Aroclor 1242 (1016)]	10	<10			
PCB[as Aroclor 1248]	10	<10			
PCB[as Aroclor 1254]	10	<10			
PCB[as Aroclor 1260]	10	<10			
Dilution Multiplier		1			
Percent Solids		85.2			

a Test Methods for Evaluating Solid Waste, SW-846, Third Edition, Revision 0, US EPA November 1986; Extraction by EPA Method 3550 (sonication). Results are calculated on a dry weight basis.

* RL = Reporting Limit

Project Number: DO8 WAD 33
Project Name: Holloman AFB
Holloman, NM
Work Order Number: W6-05-0309
Date Reported: 05-22-96

QA NONCONFORMANCE SUMMARY

Polychlorinated Biphenyls In Soil

1.0 Sample Handling

1.1 Sample handling and holding time criteria were not met for **0** samples.

2.0 Surrogate Compound Recoveries

2.1 The recovery limits were exceeded for **1** surrogate compound as shown in Table 2.

2.2 One of two surrogates in the affected sample is within limits, which is acceptable by method definition.

3.0 Matrix Spike (MS) Accuracy

3.1 The recovery limits were exceeded in the matrix spike for **1** compound as shown in Table 3A and 3B.

3.2 The result of the laboratory control sample demonstrates system control. The matrix spike's high recovery is not likely to invalidate the reported values, which are below reporting limits.

4.0 Sample Duplicate Precision

4.1 The maximum percent difference (RPD) was exceeded for **0** compounds in the duplicate samples as shown in Table 3B.

5.0 Method Blanks

5.1 **Zero** target compounds were found in the method blank as shown in Table 4.

Project Number: DO8 WAD 33
Project Name: Holloman AFB
Holloman, NM
Work Order Number: W6-05-0309
Date Reported: 05-22-96

Table 2

SURROGATE COMPOUND RECOVERY

Polychlorinated Biphenyls in Soil

GTEL Number	Surrogate Recovery, %	
	2,4,5,6-Tetrachloro-meta-xylene	Decachlorbiphenyl
	Acceptability Limits[a] 37.7-126%	Acceptability Limits[a] 35.6-155%
Method Blank 05-17-96	47.2	94.9
LCSS 05-17-96	34.3*	92.5
W6050309-01	73.1	129
W6050309-01MS	84.9	116
W6050309-01MSD	84.3	105
W6050309-02	101	121
W6050309-03	87.2	115
W6050309-04	58.6	99.8
W6050309-05	92.1	110

a Acceptability limits are derived from statistical analysis of laboratory samples.
MS: Matrix Spike
MSD: Matrix Spike Duplicate
LCSS: Laboratory Control Sample Spike
LCSSD: Laboratory Control Sample Spike Duplicate
* Indicates surrogate recovery outside of acceptability limits.

Project Number: DO8 WAD 33
Project Name: Holloman AFB
Holloman, NM
Work Order Number: W6-05-0309
Date Reported: 05-22-96

Table 3A

LABORATORY CONTROL SAMPLE SPIKE SUMMARY

Polychlorinated Biphenyls in Soil

Sample Spiked: Clean Sand 05-17-96

Analyte	Spike Added, ug/Kg	Sample Concentration, ug/Kg	LCS Concentration, ug/Kg	LCS Percent Recovery	Acceptability Limits, %[a]
PCB 1260	82.5	<10	79.5	96.4	10-127

* Indicates values outside of acceptability limits.
a Acceptability limits as published in EPA Method 8080.
Spike Recovery: 0 out of 1 outside limits.

Table 3B

MATRIX SPIKE (MS) AND MATRIX SPIKE DUPLICATE (MSD) SUMMARY

Polychlorinated Biphenyls in Soil

Sample Spiked: W6050309-01

Analyte	Spike Added, ug/Kg	Sample Concentration, ug/Kg	MS Concentration, ug/Kg	MS Percent Recovery	Acceptability Limits, %[a]
PCB 1260	82.3	<10	110	134*	10-127

Analyte	Spike Added, ug/Kg	MSD Concentration, ug/Kg	MSD Percent Recovery	RPD, %	Acceptability Limits[a]	
					RPD[b]	% Recovery
PCB 1260	82.2	100	122	9.4	26.1	10-127

* Indicates values outside of acceptability limits.
a Acceptability limits as published in EPA Method 8080.
b RPD is a provisional limit.

RPD: 0 out of 1 outside limits.
Spike Recovery: 0 out of 1 outside limits.

Project Number: DO8 WAD 33
Project Name: Holloman AFB
Holloman, NM
Work Order Number: W6-05-0309
Date Reported: 05-22-96

Table 4

METHOD BLANK SUMMARY

Polychlorinated Biphenyls in Soil

Date Extracted: 05-17-96

Analyte	Concentration, mg/kg
Arochlor-1221	<10
Arochlor-1232	<10
Arochlor-1242 (1016)	<10
Arochlor-1248	<10
Arochlor-1254	<10
Arochlor-1260	<10

ANALYTICAL RESULTS
Metals

TEL Client ID: FWH03FWH03
ogin Number: W6050309
Project ID (number): D08 WAD 33
Project ID (name): HOLLOMAN AFB/D08 WAD 33/NM

Method: EPA 7421
Matrix: Solids

GTEL Sample Number	W6050309-06	--	--	--
Client ID	OT11SP	--	--	--
Date Sampled	05/15/96	--	--	--
Date Prepared	05/20/96			
Date Analyzed	05/20/96	--	--	--
Dilution Factor	5.00	--	--	--

Analyte	Reporting Limit	Units	Concentration:Wet Weight			
Lead	0.40	mg/kg	5.2	--	--	--
Percent Solids	--	%	83.2	--	--	--

Notes:

Dilution Factor:

Dilution factor indicates the adjustments made for sample dilution.

EPA 7421:

Digestion by EPA Method 3050A. "Test Methods for Evaluating Solid Waste, Physical and Chemical Methods, SW-846", Third Edition, Revision 1, US EPA July 1992.

Project Number: DO8 WAD 33
Project Name: Holloman AFB
Holloman, NM
Work Order Number: W6-05-0309
Date Reported: 05-22-96

QA NONCONFORMANCE SUMMARY

1.0 Sample Handling

1.1 Sample handling and holding time criteria were not met for zero samples.

2.0 Initial Calibration Verification

2.1 The validity for the calibration verification was exceeded for zero samples as shown in Table 2.

3.0 Method Blanks

3.1 Zero target elements were found in the method blank as shown in Table 3.

4.0 Matrix Spike (MS) Accuracy

4.1 The recovery limits were exceeded in the matrix spike and matrix spike duplicate for zero elements as shown in Table 4.

4.2 The recovery limits were exceeded for lead in the matrix spike and/or matrix spike duplicate sample(s) due to heterogeneity.

5.0 Sample Duplicate Precision

5.1 The maximum percent difference (RPD) was exceeded for zero elements in the matrix spike and matrix spike duplicate samples as shown in Table 4.

5.2 Maximum relative percent difference (RPD) was exceeded between the matrix spike and/or matrix spike duplicate samples for lead due to heterogeniety.

6.0 Laboratory Control Sample

6.1 The recovery limits were not met for zero elements for the laboratory control samples as shown in Table 5.

Project Number: DO8 WAD 33
Project Name: Holloman AFB
Holloman, NM
Work Order Number: W6-05-0309
Date Reported: 05-22-96

Table 2

INITIAL CALIBRATION VERIFICATION,
QC CHECK SAMPLE REPORT

Lead in Soil

Analyte	Expected Result, ug/L	Observed Result, ug/L	Recovery, %	QC Limits, %[a]
Lead	20.0	21.7	108	90-110

a Acceptability limits as per EPA Contract Laboratory Program

Table 3

BLANK REPORT

Lead in Soil

Analyte	Initial Calibration Blank, ug/L	Preparation Blank, mg/Kg
Lead	<4.0	<0.40

<# Not detected at the indicated detection limit (#)

Project Number: DO8 WAD 33
Project Name: Holloman AFB
Holloman, NM
Work Order Number: W6-05-0309
Date Reported: 05-22-96

Table 4

MATRIX SPIKE AND MATRIX SPIKE DUPLICATE SUMMARY

Lead in Soil
EPA Method 7421

Sample Spiked: W6050309-06

Analyte	Spike Added, mg/kg	Sample Concentration, mg/kg	MS Concentration, mg/kg	MS Percent Recovery	Acceptability Limits, %[a]
Lead	2.19	6.26	8.34	95.0	75-125

Analyte	Spike Added, mg/kg	MSD Concentration, mg/kg	MSD Percent Recovery	RPD %	Acceptability Limits, %[a]	
					RPD	% Recovery
Lead	2.19	7.28	46.6[b]	68.4[b]	20.0	75-125

a Acceptability limits as per EPA Contract Laboratory Program.
b Indicates a result outside acceptability limits.
NA Not applicable; initital sample concentration is greater than four times the spike amount.

Table 5

LABORATORY CONTROL SAMPLE RESULTS

Lead in Soil

Analyte	Expected Result, mg/Kg	Observed Result, mg/Kg	Recovery, %	Acceptability Limits, %[a]
Lead	2.00	2.06	103	80-120

a Acceptability limits established by laboratory practice

Project Number: DO8 WAD 33
Project Name: Holloman AFB
Holloman, NM
Work Order Number: W6-05-0309
Date Reported: 05-22-96

ANALYTICAL RESULTS

Inorganics

		GTEL Sample Number	06			
		Client Identification	OT11SP			
		Date Sampled	05-15-96			
		Date Analyzed	05-20 to 05-21-96			
Analyte	Method	QL* & Units	Concentration, Dry Weight			
Closed Cup Flashpoint	ASTN D93	NA °F	>200[a]			
Paint Filter	EPA 9095	NA	No liquids redeemed			
pH	EPA 9045A	NA	7.8			
Total Cyanide	EPA 9010A	2.0 mg/Kg	<2.0			
Reactivity Sulfide	SW846 7.3.4.2	25 mg/Kg	<25			
Percent Solids			83.2			

* Quantitation Limit
a No official method exists for the determination of ignitability for solid samples.
b pH measured in 0.01M $CaCl^2$.

Project Number: DO8 WAD 33
Project Name: Holloman AFB
Holloman, NM
Work Order Number: W6-05-0309
Date Reported: 05-22-96

QA NONCONFORMANCE SUMMARY

Inorganics

1.0 Sample Handling

1.1 Sample handling and holding time criteria were not met for **0** samples.

2.0 Initial Calibration Verification

2.1 The criteria for the calibration verification QC Check Sample was exceeded for **0** samples as shown in Table 2.

3.0 Method Blanks

3.1 **Zero** target analytes were found in the method blank as shown in Table 3.

4.0 Matrix Spike (MS) Accuracy

4.1 The recovery limits were exceeded in the matrix spike for **0** analyte as shown in Table 4.

5.0 Sample Duplicate Precision

5.1 The maximum percent difference (RPD) was exceeded for **0** analytes in the duplicate samples as shown in Table 5.

6.0 Laboratory Control Sample

6.1 The recovery limits were not met for 0 analytes in the Laboratory Control Sample as shown in Table 6.

Project Number: DO8 WAD 33
Project Name: Holloman AFB
Holloman, NM
Work Order Number: W6-05-0309
Date Reported: 05-22-96

Table 2

INITIAL CALIBRATION VERIFICATION QC CHECK SAMPLE REPORT

Inorganics

Analyte	Expected Result	Observed Result	Units	Recovery, %	Acceptability Limits, %[a]
Total Cyanide	0.0384	0.0378	mg/L	98.4	90-110

a Acceptability limits established by laboratory practice.

Table 3

BLANK REPORT

Inorganics

Analyte	Initial Calibration Blank	Units	Preparation Blank	Units
Total Cyanide	<0.02	mg/L	<2.0	mg/Kg
Reactivity Sulfide	<25	mg/Kg	<25	mg/Kg

Table 4

MATRIX SPIKE (MS) RECOVERY SUMMARY

Inorganics

Sample Spiked: W6050309-06

Analyte	MS Sample Result	Sample Result	Amount Added	Units	MS, % Recovery	Acceptability Limits, %[a]
Total Cyanide	15.1	<2.0	16.7	mg/Kg	90.4	80-120
Reactivity Sulfide	338	<25	432	mg/Kg	78.2	80-120

a Acceptability limits established by laboratory practice.

Project Number: DO8 WAD 33
Project Name: Holloman AFB
Holloman, NM
Work Order Number: W6-05-0309
Date Reported: 05-22-96

Table 5

LABORATORY DUPLICATE SAMPLE RESULTS
AND RELATIVE PERCENT DIFFERENCE (RPD) SUMMARY

Inorganics

Analyte	Matrix Spike Result	Matrix Spike Duplicate Result	Units	RPD, %	Maximum RPD, %[a]
Total Cyanide	90.4	84.4	%	6.87	20
Reactivity Sulfide	78.2	82.5	%	5.35	20

a Acceptability limits established by laboratory practice.

Table 6

LABORATORY CONTROL SAMPLE RESULTS

Inorganics

Analyte	Expected Result	Observed Result	Units	Recovery, %	Acceptability Limits, %[a]
Total Cyanide	19.2	17.5	mg/Kg	91.1	80-120
Reactivity Sulfide	436	429	mg/Kg	98.4	60-140

a Acceptability limits established by laboratory practice

APPENDIX B

AOC-P (OT-44)

NEI/GTEL
ENVIRONMENTAL LABORATORIES, INC.

Midwest Region
4211 May Avenue
Wichita, KS 67209
(316) 945-2624
(800) 633-7936
(316) 945-0506 (FAX)

March 21, 1997

Dan Holmquist
Foster Wheeler Environmental Corporation
241 Arkansas St. /Behind Rv Storage
Holloman A F B, NM 88330

RE:	NEI/GTEL Client ID:	FWH03FWH03
	Login Number:	W7030277
	Project ID (number):	
	Project ID (name):	AFB/D08 WAD3/RV STORAGE/HOLLOMAN/NM

Dear Dan Holmquist:

Enclosed please find the analytical results for the samples received by NEI/GTEL Environmental Laboratories, Inc. on 03/19/97 under Chain-of-Custody Number(s) 47746.

A formal Quality Assurance/Quality Control (QA/QC) program is maintained by NEI/GTEL, which is designed to meet or exceed the EPA requirements. Analytical work for this project met QA/QC criteria unless otherwise stated in the footnotes. This report is to be reproduced only in full.

NEI/GTEL is certified by the State of Kansas under Certification Numbers E-10103.

If you have any questions regarding this analysis, or if we can be of further assistance, please call our Customer Service Representative.

Sincerely,
NEI/GTEL Environmental Laboratories, Inc.

A.E. Dentry project coord. for

Terry R. Loucks
Laboratory Director

ANALYTICAL RESULTS
Total Petroleum Hydrocarbons

NEI/GTEL Client ID: FWH03FWH03
Login Number: W7030277
Project ID (number): FWH03FWH03
Project ID (name): AFB/D08 WAD3/RV STORAGE/HOLLOMAN/NM

Method: EPA 418.1
Matrix: Solids

NEI/GTEL Sample Number	W7030277-01	W7030277-02	W7030277-03	W7030277-04
Client ID	OT44-01-03	OT44-010-03	OT44-02-03	OT44-020-03
Date Sampled	03/17/97	03/17/97	03/17/97	03/17/97
Date Prepared	03/20/97	03/20/97	03/20/97	03/20/97
Date Analyzed	03/21/97	03/21/97	03/21/97	03/21/97
Dilution Factor	1.00	1.00	1.00	1.00

Analyte	Reporting Limit	Units	Concentration:Dry Weight			
Total Petroleum Hydrocarbons	20	mg/kg	260	520	46.	49.
Percent Solids	--	%	75.0	75.5	64.6	94.7

Notes:

Dilution Factor:

Dilution factor indicates the adjustments made for sample dilution.

EPA 418.1:

Extraction is modified for soils by using EPA Method 9071 (soxhlet extraction). "Methods for Chemical Analysis of Water and Wastes". EPA 600/4-79-020. USEPA EMSL, Cincinnati, OH, Revised. March 1983.

ANALYTICAL RESULTS
Total Petroleum Hydrocarbons

NEI/GTEL Client ID: FWH03FWH03
Login Number: W7030277
Project ID (number): FWH03FWH03
Project ID (name): AFB/D08 WAD3/RV STORAGE/HOLLOMAN/NM

Method: EPA 418.1
Matrix: Solids

NEI/GTEL Sample Number	W7030277-05	W7030277-06	W7030277-07	W7030277-08
Client ID	OT44-03-03	OT44-030-03	OT44-04-03	OT44-040-03
Date Sampled	03/17/97	03/17/97	03/17/97	03/17/97
Date Prepared	03/20/97	03/20/97	03/20/97	03/20/97
Date Analyzed	03/21/97	03/21/97	03/21/97	03/21/97
Dilution Factor	1.00	1.00	1.00	1.00

Analyte	Reporting Limit	Units	Concentration:Dry Weight			
Total Petroleum Hydrocarbons	20.	mg/kg	< 20.	27.	32.	25.
Percent Solids	--	%	79.3	80.6	72.2	73.6

Notes:

Dilution Factor:

Dilution factor indicates the adjustments made for sample dilution.

EPA 418.1:

Extraction is modified for soils by using EPA Method 9071 (soxhlet extraction). "Methods for Chemical Analysis of Water and Wastes", EPA 600/4-79-020, USEPA EMSL, Cincinnati, OH. Revised, March 1983.

NEI/GTEL
ENVIRONMENTAL LABORATORIES, INC.

Midwest Region
4211 May Avenue
Wichita, KS 67209
(316) 945-2624
(800) 633-7936
(316) 945-0506 (FAX)

March 21, 1997

Dan Holmquist
Foster Wheeler Environmental Corporation
241 Arkansas St. /Behind Rv Storage
Holloman A F B, NM 88330

RE:	NEI/GTEL Client ID:	FWH03FWH03
	Login Number:	W7030277
	Project ID (number):	
	Project ID (name):	AFB/D08 WAD3/RV STORAGE/HOLLOMAN/NM

Dear Dan Holmquist:

Enclosed please find the analytical results for the samples received by NEI/GTEL Environmental Laboratories, Inc. on 03/19/97 under Chain-of-Custody Number(s) 47746.

A formal Quality Assurance/Quality Control (QA/QC) program is maintained by NEI/GTEL, which is designed to meet or exceed the EPA requirements. Analytical work for this project met QA/QC criteria unless otherwise stated in the footnotes. This report is to be reproduced only in full.

NEI/GTEL is certified by the State of Kansas under Certification Numbers E-10103.

If you have any questions regarding this analysis, or if we can be of further assistance, please call our Customer Service Representative.

Sincerely,
NEI/GTEL Environmental Laboratories, Inc.

RECEIVED MAR 28 1997

A.E. Dentry project coord. for

Terry R. Loucks
Laboratory Director

ANALYTICAL RESULTS
Total Petroleum Hydrocarbons

"EI/GTEL Client ID: FWH03FWH03
gin Number: W7030277
Project ID (number): FWH03FWH03
Project ID (name): AFB/DO8 WAD3/RV STORAGE/HOLLOMAN/NM

Method: EPA 418.1
Matrix: Solids

NEI/GTEL Sample Number	W7030277-01	W7030277-02	W7030277-03	W7030277-04
Client ID	OT44-01-03	OT44-010-03	OT44-02-03	OT44-020-03
Date Sampled	03/17/97	03/17/97	03/17/97	03/17/97
Date Prepared	03/20/97	03/20/97	03/20/97	03/20/97
Date Analyzed	03/21/97	03/21/97	03/21/97	03/21/97
Dilution Factor	1.00	1.00	1.00	1.00

Analyte	Reporting Limit	Units	Concentration:Dry Weight			
Total Petroleum Hydrocarbons	20.	mg/kg	260	520	46.	49.
Percent Solids	--	%	75.0	75.5	64.6	94.7

Notes:

Dilution Factor:

Dilution factor indicates the adjustments made for sample dilution.

EPA 418.1:

Extraction is modified for soils by using EPA Method 9071 (soxhlet extraction). "Methods for Chemical Analysis of Water and Wastes", EPA 600/4-79-020, USEPA EMSL, Cincinnati, OH, Revised, March 1983.

ANALYTICAL RESULTS
Total Petroleum Hydrocarbons

NEI/GTEL Client ID: FWH03FWH03
Login Number: W7030277
Project ID (number): FWH03FWH03
Project ID (name): AFB/DO8 WAD3/RV STORAGE/HOLLOMAN/NM

Method: EPA 418.1
Matrix: Solids

NEI/GTEL Sample Number	W7030277-05	W7030277-06	W7030277-07	W7030277-08
Client ID	OT44-03-03	OT44-030-03	OT44-04-03	OT44-040-03
Date Sampled	03/17/97	03/17/97	03/17/97	03/17/97
Date Prepared	03/20/97	03/20/97	03/20/97	03/20/97
Date Analyzed	03/21/97	03/21/97	03/21/97	03/21/97
Dilution Factor	1.00	1.00	1.00	1.00

Analyte	Reporting Limit	Units	Concentration:Dry Weight			
Total Petroleum Hydrocarbons	20.	mg/kg	< 20.	27.	32.	25.
Percent Solids	--	%	79.3	80.6	72.2	73.6

Notes:

Dilution Factor:

Dilution factor indicates the adjustments made for sample dilution.

EPA 418.1:

Extraction is modified for soils by using EPA Method 9071 (soxhlet extraction). "Methods for Chemical Analysis of Water and Wastes", EPA 600/4-79-020, USEPA EMSL, Cincinnati, OH, Revised, March 1983.

NEI/GTEL Client ID: FWH03FWH03 QUALITY CONTROL RESULTS
Login Number: W7030277 Total Petroleum Hydrocarbons
oject ID (number): FWH03FWH03 Method: EPA 418.1
Project ID (name): AFB/D08 WAD3/RV STORAGE/HOLLOMAN/NM Matrix: Solids

Method Blank Results

QC Batch No: 032097IRSX-1
Date Analyzed: 21-MAR-97

Analyte	Method:EPA 418.1	Concentration: mg/kg
Total Petroleum Hydrocarbons	< 20.0	

Notes:

NEI/GTEL Client ID: FWH03FWH03
Login Number: W7030277
Project ID (number): FWH03FWH03
Project ID (name): AFB/DO8 WAD3/RV STORAGE/HOLLOMAN/NM

QUALITY CONTROL RESULTS

Total Petroleum Hydrocarbons
Method: EPA 4
Matrix: Solids

Calibration Verification Sample Summary

Analyte	Spike Amount	Check Sample Concentration	QC Percent Recovery	Acceptability Limits Recovery
EPA 418.1 Units:mg/L	QC Batch:032097IRSX-6			
Total Petroleum Hydrocarbons	5.00	5.11	102.	90-110%

Notes:

NEI/GTEL Client ID: FWH03FWH03 QUALITY CONTROL RESULTS
Login Number: W7030277 Total Petroleum Hydrocarbons
Project ID (number): FWH03FWH03 Method: EPA 418.1
Project ID (name): AFB/D08 WAD3/RV STORAGE/HOLLOMAN/NM Matrix: Solids

Laboratory Control Sample Summary

Analyte	Spike Amount	Check Sample Concentration	QC Percent Recovery	Acceptability Limits Recovery
EPA 418.1 Units:mg/kg	QC Batch:032097IRSX-2			
Total Petroleum Hydrocarbons	150.	202.	135.	42-141%

Notes:
The accuracy limits are for a fuel oil #2 spike when the calibration is based on the standard reference oil.

NEI/GTEL Client ID: FWH03FWH03 QUALITY CONTROL RESULTS
Login Number: W7030277 Total Petroleum Hydrocarb
Project ID (number): FWH03FWH03 Method: EPA 4
Project ID (name): AFB/DO8 WAD3/RV STORAGE/HOLLOMAN/NM Matrix: Solids

Matrix Spike(MS) and Matrix Spike Duplicate(MSD) Results

GTEL Sample ID:W7030277-01 MS ID:MS03027701 MSD ID:MD03027701
Analysis Date: 21-MAR-97 21-MAR-97 21-MAR-97

Units: mg/kg	Sample	Spikes Added		MS	MS	MSD	MSD		Acceptability Limits	
Analyte	Conc.	MS	MSD	Conc.	% Rec.	Conc.	% Rec.	RPD	RPD	%Rec.
Total Petroleum Hydrocarbons	190 (193.)	150.	150.	509.	211.*	640.	298.*	34.2	50	42-141

Notes:

Values in parentheses in the sample concentration column are used for % recovery calculations.

The accuracy limits are for a fuel oil #2 spike when the calibration is based on the standard reference oil.

032097IRSX-4: Sample spike recovery is outside of acceptability limits due to high sample concentration. Blank spike recovery is within acceptability limits, therefore demonstrating method accuracy.

NEI/GTEL Client ID: FWH03FWH03 QUALITY CONTROL RESULTS
Login Number: W7030277 Total Petroleum Hydrocarbons
Project ID (number): FWH03FWH03 Method: EPA 418.1
Project ID (name): AFB/DO8 WAD3/RV STORAGE/HOLLOMAN/NM Matrix: Solids

Conformance/Non-Conformance Summary

(X = Requirements Met * = See Comments -- = Not Required NA = Not Applicable)

Conformance Item	Volatile Organics	Semi-Volatile Organics	Inorganics (MT, WC)
GC/MS Tune	--	--	NA
Initial Calibration	--	--	--
Continuing Calibration	--	X	--
Surrogate Recovery	--	--	NA
Holding Time	--	X	--
Method Accuracy	--	*	--
Method Precision	--	X	--
Blank Contamination	--	X	--

Comments:
The accuracy limits are for a fuel oil #2 spike when the calibration is based on the standard reference oil.

NEI/GTEL
ENVIRONMENTAL LABORATORIES, INC.

Midwest Region
4211 May Avenue
Wichita, KS 67209
(316) 945-2624
(800) 633-7936
(316) 945-0506 (FAX)

March 31, 1997

Dan Holmquist
Foster Wheeler Environmental Corporation
241 Arkansas St. /Behind Rv Storage
Holloman A F B, NM 88330

RE: NEI/GTEL Client ID: FWH03FWH03
Login Number: W7030293
Project ID (number):
Project ID (name): AFB/D08 WAD3/HOLLOMAN/NM

Dear Dan Holmquist:

Enclosed please find the analytical results for the samples received by NEI/GTEL Environmental Laboratories, Inc. on 03/20/97 under Chain-of-Custody Number(s) 47577.

A formal Quality Assurance/Quality Control (QA/QC) program is maintained by NEI/GTEL, which is designed to meet or exceed the EPA requirements. Analytical work for this project met QA/QC criteria unless otherwise stated in the footnotes. This report is to be reproduced only in full.

NEI/GTEL is certified by the U.S. Army Corp of Engineers Laboratory Validation, expiration date March 18, 1997.

If you have any questions regarding this analysis, or if we can be of further assistance, please call our Customer Service Representative.

Sincerely,
NEI/GTEL Environmental Laboratories, Inc.

Terry R. Loucks
Laboratory Director

ANALYTICAL RESULTS
Total Petroleum Hydrocarbons

NEI/GTEL Client ID: FWH03FWH03
gin Number: W7030293
roject ID (number): FWH03FWH03
Project ID (name): AFB/D08 WAD3/HOLLOMAN/NM

Method: EPA 418.1
Matrix: Solids

NEI/GTEL Sample Number	W7030293-01	--	--	--
Client ID	OT-44-SP	--	--	--
Date Sampled	03/19/97	--	--	--
Date Prepared	03/27/97			
Date Analyzed	03/28/97	--	--	--
Dilution Factor	1.00	--	--	--

Analyte	Reporting Limit	Units	Concentration:Dry Weight			
Total Petroleum Hydrocarbons	20.	mg/kg	3600	--	--	--
Percent Solids	--	%	78.9	--	--	--

Notes:

Dilution Factor:

Dilution factor indicates the adjustments made for sample dilution.

EPA 418.1:

Extraction is modified for soils by using EPA Method 9071 (soxhlet extraction). "Methods for Chemical Analysis of Water and Wastes", EPA 600/4-79-020, USEPA EMSL, Cincinnati, OH, Revised, March 1983.

NEI/GTEL Client ID: FWH03FWH03
Login Number: W7030293
Project ID (number): FWH03FWH03
Project ID (name): AFB/D08 WAD3/HOLLOMAN/NM

QUALITY CONTROL RESULTS

Total Petroleum Hydrocarbons
Method: EPA 418
Matrix: Soil

Conformance/Non-Conformance Summary

(X = Requirements Met * = See Comments -- = Not Required NA = Not Applicable)

Conformance Item	Volatile Organics	Semi-Volatile Organics	Inorganics (MT, WC)
GC/MS Tune	--	--	NA
Initial Calibration	--	--	--
Continuing Calibration	--	X	--
Surrogate Recovery	--	--	NA
Holding Time	--	X	--
Method Accuracy	--	*	--
Method Precision	--	*	--
Blank Contamination	--	X	--

Comments:
The accuracy limits are for a fuel oil #2 spike when the calibration is based on the standard reference oil.

NEI/GTEL Client ID: FWH03FWH03
Login Number: W7030293
Project ID (number): FWH03FWH03
Project ID (name): AFB/DO8 WAD3/HOLLOMAN/NM

QUALITY CONTROL RESULTS

Total Petroleum Hydrocarbons
Method: EPA 418.1
Matrix: Solids

Method Blank Results

QC Batch No: 032797IRSX-1
Date Analyzed: 28-MAR-97

Analyte	Method:EPA 418.1	Concentration: mg/kg
Total Petroleum Hydrocarbons	< 20.0	

Notes:

NEI/GTEL Client ID: FWH03FWH03
Login Number: W7030293
Project ID (number): FWH03FWH03
Project ID (name): AFB/D08 WAD3/HOLLOMAN/NM

QUALITY CONTROL RESULTS

Total Petroleum Hydrocarbons
Method: EPA 41
Matrix: So

Calibration Verification Sample Summary

Analyte	Spike Amount	Check Sample Concentration	QC Percent Recovery	Acceptability Limits Recovery
EPA 418.1 Units:mg/L	QC Batch:032797IRSX-6			
Total Petroleum Hydrocarbons	5.00	5.14	103.	90-110%

Notes:

NEI/GTEL Client ID: FWH03FWH03
Login Number: W7030293
Project ID (number): FWH03FWH03
Project ID (name): AFB/DO8 WAD3/HOLLOMAN/NM

QUALITY CONTROL RESULTS

Total Petroleum Hydrocarbons
Method: EPA 418.1
Matrix: Solids

Matrix Spike(MS) and Matrix Spike Duplicate(MSD) Results

GTEL Sample ID:W7030293-01 MS ID:MS03029301 MSD ID:MD03029301
Analysis Date: 28-MAR-97 28-MAR-97 28-MAR-97

Units: mg/kg	Sample	Spikes Added		MS	MS	MSD	MSD		Acceptability Limits	
Analyte	Conc.	MS	MSD	Conc.	% Rec.	Conc.	% Rec.	RPD	RPD	%Rec.
Total Petroleum Hydrocarbons	2800 (2820)	150.	150.	2720	-66.7*	3100	187.*	422.*	50	42-141

Notes:

Values in parentheses in the sample concentration column are used for % recovery calculations.

The spike recovery data may not be representative of the accuracy of the method or demonstrate true matrix interferences due to the ratio of background to spike amount.

The accuracy limits are for a fuel oil #2 spike when the calibration is based on the standard reference oil.

032797IRSX-4: Sample spike recovery and RPD are outside of acceptability limits due to high sample concentration. Blank spike recovery and RPD are within acceptability limits, therefore demonstrating method accuracy.

NEI/GTEL Client ID: FWH03FWH03
Login Number: W7030293
Project ID (number): FWH03FWH03
Project ID (name): AFB/DO8 WAD3/HOLLOMAN/NM

QUALITY CONTROL RESULTS

Total Petroleum Hydrocarbons
Method: EPA 4
Matrix: Soils

Laboratory Control Sample Summary

Analyte	Spike Amount	Check Sample Concentration	QC Percent Recovery	Acceptability Limits Recovery
EPA 418.1 **Units:mg/kg**	**QC Batch:032797IRSX-2**			
Total Petroleum Hydrocarbons	150.	150.	100.	42-141%

Notes:
The accuracy limits are for a fuel oil #2 spike when the calibration is based on the standard reference oil.

ANALYTICAL RESULTS
Results For Multiple Methods

NEI/GTEL Client ID: FWH03FWH03
'ngin Number: W7030293
ject ID (number): FWH03FWH03
Project ID (name): AFB/D08 WAD3/HOLLOMAN/NM

Method: See Below
Matrix: Solids

	NEI/GTEL Sample Number	W7030293-01	--	--	--
	Client ID	OT-44-SP	--	--	--
	Date Sampled	03/19/97	--	--	--
EPA 9010A	Date Prepared	03/28/97	--	--	--
EPA 9010A	Date Analyzed	03/28/97	--	--	--
EPA 9010A	Dilution Factor	1.00	--	--	--
EPA 9045B	Date Analyzed	03/26/97	--	--	--
EPA 9045B	Dilution Factor	1.00	--	--	--
EPA SW 846, CH. 7	Date Prepared	03/25/97	--	--	--
EPA SW 846, CH. 7	Date Analyzed	03/25/97	--	--	--
EPA SW 846, CH. 7	Dilution Factor	1.00	--	--	--

Analyte		Reporting Limit	Units	Concentration:Dry Weight			
Inorganics (MT, WC)							
Total Cyanide	EPA 9010A	2.0	mg/kg	< 2.0	--	--	--
pH	EPA 9045B	0.	pH	7.6	--	--	--
Reactive Sulfide	EPA SW 846, CH. 7	25.	mg/kg	< 25.	--	--	--
Percent Solids	--		%	78.9	--	--	--

Notes:

Dilution Factor:

Dilution factor indicates the adjustments made for sample dilution.

.. 9010A, EPA 9045B, EPA SW 846, CH. 7:

"Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW-846, Third Edition including Update 2.

W7030293-01:

The recovery limits were exceeded in the matrix spike and matrix spike duplicate for total cyanide due to matrix interferences. The acceptability limits were met for the LCS and LCS duplicate.

ANALYTICAL RESULTS
Results For Multiple Methods

NEI/GTEL Client ID: FWH03FWH03
Login Number: W7030293
Project ID (number): FWH03FWH03
Project ID (name): AFB/D08 WAD3/HOLLOMAN/NM

Method: See Below
Matrix: Solids

	NEI/GTEL Sample Number	W7030293-01	--	--	--
	Client ID	OT-44-SP	--	--	--
	Date Sampled	03/19/97	--	--	--
EPA 6010A	Date Prepared	03/20/97	--	--	--
EPA 6010A	Date Analyzed	03/20/97	--	--	--
EPA 6010A	Dilution Factor	1.00	--	--	--
EPA 7421	Date Prepared	03/25/97	--	--	--
EPA 7421	Date Analyzed	03/26/97	--	--	--
EPA 7421	Dilution Factor	1.00	--	--	--
EPA 7471A	Date Prepared	03/21/97	--	--	--
EPA 7471A	Date Analyzed	03/25/97	--	--	--
EPA 7471A	Dilution Factor	0.100	--	--	--

Analyte		Reporting Limit	Units	Concentration:Dry Weight			
Inorganics (MT, WC)							
Arsenic	EPA 6010A	40.	mg/kg	< 40.	--	--	--
Barium	EPA 6010A	20.	mg/kg	**29.**	--	--	--
Cadmium	EPA 6010A	2.0	mg/kg	< 2.0	--	--	--
Chromium	EPA 6010A	3.0	mg/kg	< 3.0	--	--	--
Lead	EPA 7421	0.40	mg/kg	**2.9**	--	--	--
Mercury	EPA 7471A	0.25	mg/kg	< 0.25	--	--	--
Selenium	EPA 6010A	20.	mg/kg	< 20.	--	--	--
Silver	EPA 6010A	2.0	mg/kg	< 2.0	--	--	--
Percent Solids	--		%	78.9	--	--	--

Notes:

Dilution Factor:

Dilution factor indicates the adjustments made for sample dilution.

EPA 6010A, EPA 7421:

Digestion by EPA Method 3050A.

EPA 6010A, EPA 7421, EPA 7471A:

"Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW-846, Third Edition including Update 2.

W7030293-01:

The recovery limits and maximum percent difference limits were exceeded for lead in the matrix spike and matrix spike duplicate due to sample heterogeneity.

ANALYTICAL RESULTS
Paint Filter

NEI/GTEL Client ID: FWH03FWH03
gin Number: W7030293
.oject ID (number): FWH03FWH03
Project ID (name): AFB/D08 WAD3/HOLLOMAN/NM

Method: EPA 9095
Matrix: Solids

NEI/GTEL Sample Number	W7030293-01	--	--	--
Client ID	OT-44-SP	--	--	--
Date Sampled	03/19/97	--	--	--
Date Analyzed	03/26/97	--	--	--
Dilution Factor	1.00	--	--	--

Analyte	Reporting Limit	Units	Concentration:Dry Weight			
Paint Filter Liquids Test	--	std	Not Present	--	--	--
Percent Solids	--	%	78.9	--	--	--

Notes:

Dilution Factor:

Dilution factor indicates the adjustments made for sample dilution.

EPA 9095:

"Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW-846, Third Edition including Update 2.

Project ID (Name): Holloman AFB
DO8 WAD3
Holloman, AFB
Work Order Number: W7-03-0293
Date Reported: 03-28-97

ANALYTICAL RESULTS

Volatile Organics in TCLP Leachate[a]
EPA Method 8240 Modified

GTEL Sample Number		W7030293-01			
Client Identification		OT-44-SP			
Date Sampled		03-19-97			
Date Leached		03-20-97			
Extraction Fluid		#1			
Date Analyzed		03-26-97			
Analyte	Quantitation Limit, mg/L	Concentration, mg/L			
Benzene	0.050	<0.050			
Carbon tetrachloride	0.050	<0.050			
Chlorobenzene	0.050	<0.050			
Chloroform	0.050	<0.050			
1,4-Dichlorobenzene	0.050	<0.050			
1,2-Dichloroethane	0.050	<0.050			
1,1-Dichloroethylene	0.050	<0.050			
Methyl ethyl ketone	0.20	<0.20			
Tetrachloroethylene	0.050	<0.050			
Trichloroethylene	0.050	<0.050			
Vinyl chloride	0.10	<0.10			
Quantitation Limit Multiplier[b]		1			

a Test Methods for Evaluating Solid Waste, SW-846, Third Edition, Revision 0, US EPA, November 1986. This method is modified for megabore column use. TCLP is performed as per 40 CFR, Part 261, Appendix II-Method 1311. These data are presented in accordance with the Federal Register 57, p. 55114, November 24, 1992.

b The quantitation limit multiplier indicates the adjustments made to the data and detection limits for sample dilutions.

Project ID (Name): Holloman AFB
DO8 WAD3
Holloman, AFB
Work Order Number: W7-03-0293
Date Reported: 03-28-97

QA NONCONFORMANCE SUMMARY

Volatile Organics in TCLP Leachate
EPA Method 8240 Modified

1.0 Sample Handling

1.1 Sample handling and holding time criteria were not met for 0 samples.

2.0 Surrogate Compound Recoveries

2.1 The recovery limits were exceeded for surrogate compounds in 1 samples as shown in Table 2.

3.0 Matrix Spike (MS) Accuracy

3.1 The recovery limits were exceeded in the matrix spike for 0 compounds as shown in Table 3.

4.0 Sample Duplicate Precision

4.1 The maximum percent difference (RPD) was exceeded for 0 compounds in the duplicate samples as shown in Table 3.

5.0 Method Blanks

5.1 0 target compound(s) was/were found in the method blank as shown in Table 4.

Project ID (Name): Holloman AFB
DO8 WAD3
Holloman, AFB
Work Order Number: W7-03-0293
Date Reported: 03-28-97

Table 2

SURROGATE RECOVERY SUMMARY

Volatile Organics in TCLP Leachate
EPA Method 8240 Modified

GTEL No.	Percent Recovery, %			
	S1 (TOL)	S2 (BFB)	S3 (DCE)	TOTAL OUT
W7030293-01	91.1	89.0	87.9	0
EB32097TCLP	88.7	87.0	98.0	0
ES32097TCLP	90.4	87.5	95.6	0
ESD32097TCLP	92.9	85.7*	86.2	1
MS03029301	90.4	87.0	94.9	0
MD03029301	90.9	89.0	97.0	0

	Surrogates		Amount Spiked, ug/L	Recovery Limits[a]
S1	TOL	Toluene-d8	50	88-110
S2	BFB	Bromofluorobenzene	50	86-115
S3	DCE	1,2-Dichloroethane-d4	50	76-114

* Indicates values outside of acceptability limits.
a Acceptability limits are derived from USEPA Contract Laboratory Program (CLP) guidelines.
D Diluted out. Percent Recovery is not calculated when surrogate compound(s) are diluted out.

Project ID (Name): Holloman AFB
DO8 WAD3
Holloman, AFB
Work Order Number: W7-03-0293
Date Reported: 03-28-97

Table 3

LCS AND LCSD SUMMARY
PERCENT RECOVERY AND RELATIVE PERCENT DIFFERENCE (RPD)
Volatile Organics in TCLP Extract
Modified EPA Method 8240

Sample Spiked: Blank Spike Client ID:

Analyte	Spike Added, ug/L	Sample Concentration, ug/L	LCS Concentration, ug/L	LCS Percent Recovery	Acceptability Limits, %[a]
Vinyl Chloride	100	<100	50.3	50.3	10-150
1,1-Dichloroethene	100	<50	58.9	58.9	36-97
Chloroform	100	<50	62.0	62.0	32-119
Carbon Tetrachloride	100	<50	66.6	66.6	32-119
1,2-Dichloroethane	100	<50	64.8	64.8	40-113
Benzene	100	<50	59.9	59.9	35-180
Trichloroethene	100	<50	57.4	57.4	24-116
Tetrachloroethene	100	<50	54.2	54.2	37-144
Chlorobenzene	100	<50	61.5	61.5	37-144
1,3-Dichlorobenzene	100	<50	56.9	56.9	24-96
1,4-Dichlorobenzene	100	<50	55.9	55.9	10-152

Analyte	Spike Added, ug/L	LCSD Concentration, ug/L	LCSD Percent Recovery	RPD, %	Acceptability Limits	
					RPD	% Recovery
Vinyl Chloride	100	46.2	46.2	8.6	50	10-150
1,1-Dichloroethene	100	48.6	48.6	19.2	27	36-97
Chloroform	100	57.5	57.5	7.5	34	32-119
Carbon Tetrachloride	100	59.2	59.2	11.8	34	32-119
1,2-Dichloroethane	100	62.1	62.1	4.3	26	40-113
Benzene	100	53.1	53.1	12.0	39	35-180
Trichloroethene	100	51.9	51.9	10.1	38	24-116
Tetrachloroethene	100	50.2	50.2	7.7	34	37-144
Chlorobenzene	100	54.5	54.5	12.2	34	37-144
1,3-Dichlorobenzene	100	52.3	52.3	8.4	47	24-96
1,4-Dichlorobenzene	100	51.3	51.3	8.5	60	10-152

* Indicates values outside of acceptability limits.
a Acceptability limits are derived from USEPA Contract Laboratory Program (CLP) requirements.

Project ID (Name): Holloman AFB
DO8 WAD3
Holloman, AFB
Work Order Number: W7-03-0293
Date Reported: 03-28-97

Table 3

MATRIX SPIKE (MS) AND MATRIX SPIKE DUPLICATE (MSD) SUMMARY
PERCENT RECOVERY AND RELATIVE PERCENT DIFFERENCE (RPD)
Volatile Organics in TCLP Extract
Modified EPA Method 8240

Sample Spiked: W703029301 Client ID: OT-44-SP

Analyte	Spike Added, ug/L	Sample Concentration, ug/L	MS Concentration, ug/L	MS Percent Recovery	Acceptability Limits, %[a]
Vinyl Chloride	100	<100	55.6	55.6	10-150
1,1-Dichloroethene	100	<50	57.8	57.8	36-97
Chloroform	100	<50	61.5	61.5	32-119
Carbon Tetrachloride	100	<50	66.6	66.6	32-119
1,2-Dichloroethane	100	<50	66.0	66.0	40-113
Benzene	100	<50	58.4	58.4	35-180
Trichloroethene	100	<50	58.3	58.3	24-116
Tetrachloroethene	100	<50	54.0	54.0	37-144
Chlorobenzene	100	<50	61.9	61.9	37-144
1,3-Dichlorobenzene	100	<50	58.8	58.8	24-96
1,4-Dichlorobenzene	100	<50	57.7	57.7	10-152

Analyte	Spike Added, ug/L	MSD Concentration, ug/L	MSD Percent Recovery	RPD, %	Acceptability Limits	
					RPD	% Recovery
Vinyl Chloride	100	58.0	58.0	4.3	50	10-150
1,1-Dichloroethene	100	58.8	58.8	1.7	27	36-97
Chloroform	100	57.0	57.0	7.5	34	32-119
Carbon Tetrachloride	100	67.2	67.2	0.8	34	32-119
1,2-Dichloroethane	100	59.1	59.1	11.1	26	40-113
Benzene	100	58.0	58.0	0.8	39	35-180
Trichloroethene	100	59.2	59.2	1.5	38	24-116
Tetrachloroethene	100	55.8	55.8	3.4	34	37-144
Chlorobenzene	100	59.1	59.1	4.6	34	37-144
1,3-Dichlorobenzene	100	55.2	55.2	6.3	47	24-96
1,4-Dichlorobenzene	100	54.2	54.2	6.3	60	10-152

* Indicates values outside of acceptability limits.
a Acceptability limits are derived from USEPA Contract Laboratory Program (CLP) requirements.

Project ID (Name): Holloman AFB
DO8 WAD3
Holloman, AFB
Work Order Number: W7-03-0293
Date Reported: 03-28-97

Table 4

METHOD BLANK RESULTS

Volatile Organics in TCLP Leachate[a]
EPA Method 8240 Modified

	File ID	A4267
	Date Leached	03-20-97
	Extraction Fluid	#1
	Date Analyzed	03-26-97
Analyte	Quantitation Limit, mg/L	Concentration, mg/L
Benzene	0.050	<0.050
Carbon tetrachloride	0.050	<0.050
Chlorobenzene	0.050	<0.050
Chloroform	0.050	<0.050
1,4-Dichlorobenzene	0.050	<0.050
1,2-Dichloroethane	0.050	<0.050
1,1-Dichloroethylene	0.050	<0.050
Methyl ethyl ketone	0.20	<0.20
Tetrachloroethylene	0.050	<0.050
Trichloroethylene	0.050	<0.050
Vinyl chloride	0.10	<0.10

a Test Methods for Evaluating Solid Waste, SW-846, Third Edition, Revision 0, US EPA, November 1986. This method is modified for megabore column use. TCLP is performed as per 40 CFR, Part 261, Appendix II-Method 1311. These data are presented in accordance with the Federal Register 57, p. 55114, November 24, 1992.

ANALYTICAL RESULTS
Volatile Organics

NEI/GTEL Client ID: FWH03FWH03
Login Number: W7030293
Project ID (number): FWH03FWH03
Project ID (name): AFB/D08 WAD3/HOLLOMAN/NM

Method: EPA 8021A
Matrix: Solids

NEI/GTEL Sample Number	W7030293-01	--	--	--
Client ID	OT-44-SP	--	--	--
Date Sampled	03/19/97	--	--	--
Date Analyzed	03/29/97	--	--	--
Dilution Factor	1.00	--	--	--

Analyte	Reporting Limit	Units	Concentration:Dry Weight			
Benzene	0.05	mg/kg	< 0.05	--	--	--
Toluene	0.10	mg/kg	< 0.10	--	--	--
Ethylbenzene	0.10	mg/kg	< 0.10	--	--	--
Xylenes (total)	0.20	mg/kg	< 0.20	--	--	--
Percent Solids	--	%	78.9	--	--	--

Notes:

Dilution Factor:

Dilution factor indicates the adjustments made for sample dilution.

EPA 8021A:

EPA 8021A: "Test Methods for Evaluating Solid Waste, Physical and Chemical Methods", SW-846, Third Edition, Revision 1, US EPA September 1994.

NEI/GTEL Client ID: FWH03FWH03
Login Number: W7030293
Project ID (number): FWH03FWH03
Project ID (name): AFB/DOB WAD3/HOLLOMAN/NM

QUALITY CONTROL RESULTS

Volatile Organics
Method: EPA 8021A
Matrix: Solids

Surrogate Results

QC Batch No.	Reference	Sample ID	TFT
Method: EPA 8021A		Acceptability Limits:	43-136%
032997GC17-1	CV0329972017	Calibration Verifi	90.2
032997GC17-10	MS03029301	Matrix Spike	102.
032997GC17-11	MD03029301	Matrix Spike Dupli	92.2
032997GC17-7	LS03299717	Laboratory control	97.1
032997GC17-8	LSD03299717	LCS Soil Duplicate	104.
032997GC17-9	BS03299717	Method Blank Soil	94.6
--	03029301	OT-44-SP	90.2

Notes:
*: Indicates values outside of acceptability limits. See Nonconformance Summary.

NEI/GTEL Client ID: FWH03FWH03
Login Number: W7030293
Project ID (number): FWH03FWH03
Project ID (name): AFB/D08 WAD3/HOLLOMAN/NM

QUALITY CONTROL RESULTS

Volatile Organics
Method: EPA 8
Matrix: Soi

Method Blank Results

QC Batch No: 032997GC17-9
Date Analyzed: 29-MAR-97

Analyte	Method:EPA 8021A	Concentration: mg/kg
Benzene	< 0.0500	
Toluene	< 0.100	
Ethylbenzene	< 0.100	
Xylenes (Total)	< 0.200	

Notes:

NEI/GTEL Client ID: FWH03FWH03 QUALITY CONTROL RESULTS
Login Number: W7030293 Volatile Organics
Project ID (number): FWH03FWH03 Method: EPA 8021A
Project ID (name): AFB/D08 WAD3/HOLLOMAN/NM Matrix: Solids

Calibration Verification Sample Summary

Analyte		Spike Amount	Check Sample Concentration	QC Percent Recovery	Acceptability Limits Recovery
EPA 8021A	Units:ug/L	QC Batch:032997GC17-1			
Benzene		20.0	19.3	96.5	77-123%
Toluene		20.0	19.4	97.0	77.5-122.5%
Ethylbenzene		20.0	19.2	96.0	63-137%
Xylenes (Total)		60.0	61.1	102.	85-115%

Notes:
QC check source: Supelco #LA12389

NEI/GTEL Client ID: FWH03FWH03
Login Number: W7030293
Project ID (number): FWH03FWH03
Project ID (name): AFB/DO8 WAD3/HOLLOMAN/NM

QUALITY CONTROL RESULTS

Volatile Organics
Method: EPA 8
Matrix: So

Matrix Spike(MS) and Matrix Spike Duplicate(MSD) Results

GTEL Sample ID:W7030293-01 MS ID:MS03029301 MSD ID:MD03029301
Analysis Date: 29-MAR-97 29-MAR-97 29-MAR-97

Units: mg/kg	Sample	Spikes Added		MS	MS	MSD	MSD		Acceptability Limits	
Analyte	Conc.	MS	MSD	Conc.	% Rec.	Conc.	% Rec.	RPD	RPD	%Rec.
Benzene	< 0.05(0.000)	4.77	4.99	5.07	106.	4.28	85.8	21.1	28.3	80-120
Toluene	< 0.10(0.000)	4.77	4.99	5.18	109.	4.35	87.2	22.2	30	80-120
Ethylbenzene	< 0.10(0.000)	4.77	4.99	5.28	111.	4.42	88.6	22.4	30	80-120
Xylenes (Total)	< 0.20(0.000)	14.3	15.0	15.9	111.	13.6	90.7	20.1	30	80-120

Notes:
Values in parentheses in the sample concentration column are used for % recovery calculations.

NEI/GTEL Client ID: FWH03FWH03
Login Number: W7030293
oject ID (number): FWH03FWH03
roject ID (name): AFB/D08 WAD3/HOLLOMAN/NM

QUALITY CONTROL RESULTS

Volatile Organics
Method: EPA 8021A
Matrix: Solids

Laboratory Control Sample (LCS) and Laboratory Control Duplicate Results

Analyte	Spike Amount	LCS Concentration	LCS Recovery, %	LCS Duplicate Concentration	LCS Duplicate Recovery, %	RPD, %	Acceptability Limits RPD, %	Acceptability Limits Recovery, %
EPA 8021A Units: ug/L	QC Batch:032997GC17-8							
Benzene	5.00	5.11	102.	5.32	106.	3.85	28.3	39-150%
Toluene	5.00	5.13	103.	5.36	107.	3.81	30	46-148%
Ethylbenzene	5.00	5.02	100.	5.32	106.	5.83	30	32-160%
Xylenes (Total)	15.0	16.0	107.	16.8	112.	4.57	30	41-155%

Notes:

NEI/GTEL Client ID: FWH03FWH03
Login Number: W7030293
Project ID (number): FWH03FWH03
Project ID (name): AFB/D08 WAD3/HOLLOMAN/NM

QUALITY CONTROL RESULTS

Volatile Organics
Method: EPA 8
Matrix: Soil

Conformance/Non-Conformance Summary

(X = Requirements Met * = See Comments -- = Not Required NA = Not Applicable)

Conformance Item	Volatile Organics	Semi-Volatile Organics	Inorganics (MT, WC)
GC/MS Tune	--	--	NA
Initial Calibration	--	--	--
Continuing Calibration	X	--	--
Surrogate Recovery	X	--	NA
Holding Time	X	--	--
Method Accuracy	X	--	--
Method Precision	X	--	--
Blank Contamination	X	--	--

Comments:

Project ID (Name): Holloman AFB
DO8 WAD3
Holloman, NM
Work Order Number: W7-03-0293
Date Reported: 03-28-97

ANALYTICAL RESULTS

Semivolatile Organics in TCLP Leachate[a]
EPA Method 8270B[b]

GTEL Sample Number		01			
Client Identification		OT-44-SP			
Date Sampled		03-19-97			
Date Leached		03-20-97			
Date Extracted		03-26-97			
Extraction Fluid		#1			
Date Analyzed		03-27-97			
Analyte	Reporting Limit, mg/L	Concentration, mg/L			
o-Cresol	0.033	<0.33			
m-Cresol + p-Cresol	0.033	<0.33			
1,4-Dichlorobenzene	0.033	<0.33			
2,4-Dinitrotoluene	0.033	<0.33			
Hexachloro-1,3-butadiene	0.033	<0.33			
Hexachlorobenzene	0.033	<0.33			
Hexachloroethane	0.033	<0.33			
Nitrobenzene	0.033	<0.33			
Pentachlorophenol	0.17	<0.17			
Pyridine	0.033	<0.33			
2,4,5-Trichlorophenol	0.033	<0.33			
2,4,6-Trichlorophenol	0.033	<0.33			
Reporting Limit Multiplier[c]					

a Test Methods for Evaluating Solid Waste, SW-846, Third Edition, Revision 0, US EPA, November 1986; extraction by EPA Method 3510 (liquid/liquid). TCLP performed as per 40 CFR, Part 261, Appendix II - Method 1311. These data are presented in accordance with the Federal Register, 57, p.55114, November 24, 1992.

b Test Methods for Evaluating Solid Waste, SW-846, Third Edition, Revision 2, US EPA, Jan 1995; extraction by EPA Method 3510 (liquid/liquid).

c The reporting limit multiplier indicates the adjustments made to the reporting limits for sample dilutions.

d GC\MS data indicates the presence of non-target compounds.

Project ID (Name): Holloman AFB
DO8 WAD3
Holloman, NM
Work Order Number: W7-03-0293
Date Reported: 03-28-97

QA NONCONFORMANCE SUMMARY

Semivolatile Organics in TCLP Leachate
EPA Method 8270B[b]

1.0 Sample Handling

1.1 Sample handling and holding time criteria were not met for zero samples.

2.0 Surrogate Compound Recoveries

2.1 The recovery limits were exceeded for zero surrogate compounds as shown in Table 2.

3.0 Matrix Spike (MS) Accuracy

3.1 The recovery limits were exceeded in the matrix spike for zero compounds as shown in Table 3A and 3.5A..

4.0 Sample Duplicate Precision

4.1 The maximum percent difference (RPD) was exceeded for zero compounds in the duplicate samples as shown in Table 3B and 3.5B.

5.0 Method Blanks

5.1 Zero target compounds were found in the method blank as shown in Table 4.

Project ID (Name): Holloman AFB
DO8 WAD3
Holloman, NM
Work Order Number: W7-03-0293
Date Reported: 03-28-97

Table 2

SURROGATE RECOVERY SUMMARY

Semivolatile Organics in TCLP Leachate
EPA Method 8270B[b]

GTEL No.	Percent Recovery, %						
	S1 (NBZ)	S2 (FBP)	S3 (TPH)	S4 (PHL)	S5 (2FP)	S6 (TBP)	TOT OUT
BT032697BNA	83.4	72.1	75.9	75.3	64.1	73.6	
LT032697BNA	91.3	80.5	82.0	84.4	71.1	81.6	
LTD032697BNA	87.9	76.6	82.4	83.0	70.0	71.9	
W703029301	82.6	71.7	82.3	81.2	65.6	70.2	
MS03029301	93.7	82.6	84.9	91.1	74.0	78.2	
MD03029301	91.5	77.1	85.2	87.4	70.5	72.9	

	Surrogates		Recovery Limits[a]
S1	NBZ	Nitrobenzene-d5	35-114
S2	FBP	2-Fluorobiphenyl	43-116
S3	TPH	Terphenyl-d14	33-141
S4	PHL	Phenol-d5	10- 94
S5	2FP	2-Fluorophenol	21-100
S6	TBP	2,4,6-Tribromophenol	10-123

D Surrogate diluted out.
* Indicates values outside of acceptability limits.
a Acceptability limits are derived from USEPA Contract Laboratory Program (CLP) guidelines.

Project ID (Name): Holloman AFB
DO8 WAD3
Holloman, NM
Work Order Number: W7-03-0293
Date Reported: 03-28-97

Table 3A

MATRIX SPIKE (MS) AND MATRIX SPIKE DUPLICATE (MSD) SUMMARY PERCENT RECOVERY AND RELATIVE PERCENT DIFFERENCE (RPD)

Semivolatile Organics in TCLP Leachate
EPA Method 8270B[b]

Sample Spiked: LT032697BNA Client ID: EF #1

Analyte	Spike Added, mg/L	Sample Concentration, mg/L	MS Concentration, mg/L	MS Percent Recovery	Acceptability Limits, %[a]
Pyridine	333	<33	196.7	59.0	10-150
1,4-Dichlorobenzene	333	<33	227.0	68.1	36-97
2-Methylphenol	333	<33	258.5	77.5	32-119
3,4-Methylphenol	667	<33	503.7	75.6	32-119
Hexachloroethane	333	<33	214.8	64.4	40-113
Nitrobenzene	333	<33	257.0	77.1	35-180
Hexachlorobutadiene	333	<33	240.1	72.0	24-116
2,4,6-Trichlorophenol	333	<33	251.7	75.5	37-144
2,4,5-Trichlorophenol	333	<33	256.9	77.1	37-144
2,4-Dinitrotoluene	333	<33	246.7	74.0	24-96
Hexachlorobenzene	333	<33	230.7	69.2	10-152
Pentachlorophenol	333	<167	275.8	82.7	10-103

Table 3A

Analyte	Spike Added, mg/L	MSD Concentration, mg/L	MSD Percent Recovery	RPD, %	Acceptability Limits[a]	
					RPD	% Recovery
Pyridine	333	187.5	56.3	4.8	50	10-150
1,4-Dichlorobenzene	333	240.5	72.2	5.8	27	36-97
2-Methylphenol	333	258.0	77.4	0.2	34	32-119
3,4-Methylphenol	667	506.7	76.0	0.6	34	32-119
Hexachloroethane	333	225.5	67.6	4.8	26	40-113
Nitrobenzene	333	252.7	75.8	1.7	39	35-180
Hexachlorobutadiene	333	248.5	74.5	3.4	38	24-116
2,4,6-Trichlorophenol	333	237.0	71.1	6.0	34	37-144
2,4,5-Trichlorophenol	333	246.2	73.9	4.3	34	37-144
2,4-Dinitrotoluene	333	230.3	69.1	6.9	47	24-96
Hexachlorobenzene	333	218.2	65.5	5.6	60	10-152
Pentachlorophenol	333	250.3	75.1	9.7	47	10-103

* Indicates values outside of acceptability limits.

a Acceptability limits are derived from USEPA requirements and laboratory practices.

RPD: 0 out of 12 outside limits.

Spike Recovery: 0 out of 24 outside limits.

Project ID (Name): Holloman AFB
DO8 WAD3
Holloman, NM
Work Order Number: W7-03-0293
Date Reported: 03-28-97

Table 3.5A

MATRIX SPIKE (MS) AND MATRIX SPIKE DUPLICATE (MSD) SUMMARY
PERCENT RECOVERY AND RELATIVE PERCENT DIFFERENCE (RPD)

Semivolatile Organics in TCLP Leachate
EPA Method 8270B[b]

Sample Spiked: W7030293 Client ID: EF #1

Analyte	Spike Added, mg/L	Sample Concentration, mg/L	MS Concentration, mg/L	MS Percent Recovery	Acceptability Limits, %[a]
Pyridine	333	<33	216.1	64.8	10-150
1,4-Dichlorobenzene	333	<33	249.2	74.8	36-97
2-Methylphenol	333	<33	274.9	82.5	32-119
3,4-Methylphenol	667	<33	534.7	80.2	32-119
Hexachloroethane	333	<33	239.1	71.7	40-113
Nitrobenzene	333	<33	268.1	80.4	35-180
Hexachlorobutadiene	333	<33	245.5	73.7	24-116
2,4,6-Trichlorophenol	333	<33	264.4	79.3	37-144
2,4,5-Trichlorophenol	333	<33	272.8	81.9	37-144
2,4-Dinitrotoluene	333	<33	245.1	73.5	24-96
Hexachlorobenzene	333	<33	230.5	69.1	10-152
Pentachlorophenol	333	<167	262.7	78.8	10-103

Table 3.5B

Analyte	Spike Added, mg/L	MSD Concentration, mg/L	MSD Percent Recovery	RPD, %	Acceptability Limits[a]	
					RPD	% Recovery
Pyridine	333	176.0	52.8	20.5	50	10-150
1,4-Dichlorobenzene	333	243.2	73.0	2.4	27	36-97
2-Methylphenol	333	265.5	79.7	3.5	34	32-119
3,4-Methylphenol	667	513.3	77.0	4.1	34	32-119
Hexachloroethane	333	224.1	67.2	6.5	26	40-113
Nitrobenzene	333	263.1	78.9	1.9	39	35-180
Hexachlorobutadiene	333	238.7	71.6	2.8	38	24-116
2,4,6-Trichlorophenol	333	245.7	73.7	7.3	34	37-144
2,4,5-Trichlorophenol	333	264.5	79.4	3.1	34	37-144
2,4-Dinitrotoluene	333	238.5	71.6	2.7	47	24-96
Hexachlorobenzene	333	11204	67.1	3.1	60	10-152
Pentachlorophenol	333	265.7	79.7	1.1	47	10-103

* Indicates values outside of acceptability limits.

a Acceptability limits are derived from USEPA requirements and laboratory practices.

RPD: 0 out of 12 outside limits.

Spike Recovery: 0 out of 24 outside limits.

Project ID (Name): Holloman AFB
DO8 WAD3
Holloman, NM
Work Order Number: W7-03-0293
Date Reported: 03-28-97

Table 4

METHOD BLANK

Semivolatile Organics in TCLP Leachate[a]
EPA Method 8270B[b]

	GTEL File Number	BT032697BNA			
	Date Leached	03-20-97			
	Date Extracted	03-26-97			
	Extraction Fluid	#1			
	Date Analyzed	03-27-97			
Analyte	Quantitation Limit, mg/L	Concentration, mg/L			
o-Cresol	0.033	<0.033			
m-Cresol + p-Cresol	0.033	<0.033			
1,4-Dichlorobenzene	0.033	<0.033			
2,4-Dinitrotoluene	0.033	<0.033			
Hexachloro-1,3-butadiene	0.033	<0.033			
Hexachlorobenzene	0.033	<0.033			
Hexachloroethane	0.033	<0.033			
Nitrobenzene	0.033	<0.033			
Pentachlorophenol	0.17	<0.17			
Pyridine	0.033	<0.033			
2,4,5-Trichlorophenol	0.033	<0.033			
2,4,6-Trichlorophenol	0.033	<0.033			
Quantitation Limit Multiplier[c]		1			

a Test Methods for Evaluating Solid Waste, SW-846, Third Edition, Revision 0, US EPA, November 1986; extraction by EPA Method 3510 (liquid/liquid). TCLP performed as per 40 CFR, Part 261, Appendix II - Method 1311. These data are presented in accordance with the Federal Register, 57, p.55114, November 24, 1992.

b Test Methods for Evaluating Solid Waste, SW-846, Third Edition, Revision 2, US EPA, Jan 1995; extraction by EPA Method 3510 (liquid/liquid).

c The quantitation limit multiplier indicates the adjustments made to the reporting limits for sample dilutions.

APPENDIX B

SWMU 14

NEI/GTEL
ENVIRONMENTAL LABORATORIES, INC.

Midwest Region
4211 May Avenue
Wichita, KS 67209
(316) 945-2624
(800) 633-7936
(316) 945-0506 (FAX)

July 9, 1997

Dan Holmquist
Foster Wheeler Environmental Corporation
241 Arkansas St. /Behind Rv Storage
Holloman A F B, NM 88330

RECEIVED JUL 2 4 1997

RE: NEI/GTEL Client ID: FWH03FWH03
Login Number: W7070088
Project ID (number):
Project ID (name): HAFB/T-38/HOLLOMAN/NM

Dear Dan Holmquist:

Enclosed please find the analytical results for the samples received by NEI/GTEL Environmental Laboratories, Inc. on 07/05/97 under Chain-of-Custody Number(s) 47572.

A formal Quality Assurance/Quality Control (QA/QC) program is maintained by NEI/GTEL, which is designed to meet or exceed the EPA requirements. Analytical work for this project met QA/QC criteria unless otherwise stated in the footnotes. This report is to be reproduced only in full.

NEI/GTEL is certified by the U.S. Army Corp of Engineers Laboratory Validation, expiration date March 18, 1997.

If you have any questions regarding this analysis, or if we can be of further assistance, please call our Customer Service Representative.

Sincerely,
NEI/GTEL Environmental Laboratories, Inc.

Terry R. Loucks
Laboratory Director

ANALYTICAL RESULTS
Total Petroleum Hydrocarbons

NEI/GTEL Client ID: FWH03FWH03
gin Number: W7070088
oject ID (number): FWH03FWH03
Project ID (name): HAFB/T-38/HOLLOMAN/NM

Method: EPA 418.1
Matrix: Solids

NEI/GTEL Sample Number	W7070088-01	W7070088-02	W7070088-03	--
Client ID	SWMV14-01-06	SWMV14-02-06	SWMV14-03-06	--
Date Sampled	07/03/97	07/03/97	07/03/97	--
Date Prepared	07/08/97	07/08/97	07/08/97	
Date Analyzed	07/09/97	07/09/97	07/09/97	--
Dilution Factor	1.00	1.00	1.00	--

Analyte	Reporting Limit	Units	Concentration:Dry Weight			
Total Petroleum Hydrocarbons	20.	mg/kg	39.	< 20.	< 20.	--
Percent Solids	--	%	86.3	84.2	81.6	--

Notes:

Dilution Factor:

Dilution factor indicates the adjustments made for sample dilution.

EPA 418.1:

Extraction is modified for soils by using EPA Method 9071 (soxhlet extraction). "Methods for Chemical Analysis of Water and Wastes", EPA 600/4-79-020, USEPA EMSL, Cincinnati, OH, Revised, March 1983.

NEI/GTEL Client ID: FWH03FWH03
Login Number: W7070088
Project ID (number): FWH03FWH03
Project ID (name): HAFB/T-38/HOLLOMAN/NM

QUALITY CONTROL RESULTS

Total Petroleum Hydrocarbons
Method: EPA 4
Matrix: Solids

Conformance/Non-Conformance Summary

(X = Requirements Met * = See Comments -- = Not Required NA = Not Applicable)

Conformance Item	Volatile Organics	Semi-Volatile Organics	Inorganics (MT, WC)
GC/MS Tune	--	--	NA
Initial Calibration	--	--	--
Continuing Calibration	--	X	--
Surrogate Recovery	--	--	NA
Holding Time	--	X	--
Method Accuracy	--	*	--
Method Precision	--	X	--
Blank Contamination	--	X	--

Comments:
The accuracy limits are for a fuel oil #2 spike when the calibration is based on the standard reference oil.

NEI/GTEL Client ID: FWH03FWH03
Login Number: W7070088
Project ID (number): FWH03FWH03
Project ID (name): HAFB/T-38/HOLLOMAN/NM

QUALITY CONTROL RESULTS

Total Petroleum Hydrocarbons
Method: EPA 418.1
Matrix: Solids

Method Blank Results

QC Batch No: 070897IRSX-1
Date Analyzed: 09-JUL-97

Analyte	Method:EPA 418.1	Concentration: mg/kg
Total Petroleum Hydrocarbons	< 20.0	

Notes:

NEI/GTEL Client ID: FWH03FWH03
Login Number: W7070088
Project ID (number): FWH03FWH03
Project ID (name): HAFB/T-38/HOLLOMAN/NM

QUALITY CONTROL RESULTS

Total Petroleum Hydrocarbons
Method: EPA 4
Matrix: Solids

Calibration Verification Sample Summary

Analyte	Spike Amount	Check Sample Concentration	QC Percent Recovery	Acceptability Limits Recovery
EPA 418.1 Units:mg/L	QC Batch:070897IRSX-6			
Total Petroleum Hydrocarbons	5.00	5.10	102.	90-110%

Notes:

NEI/GTEL Client ID: FWH03FWH03
Login Number: W7070088
Project ID (number): FWH03FWH03
Project ID (name): HAFB/T-38/HOLLOMAN/NM

QUALITY CONTROL RESULTS

Total Petroleum Hydrocarbons
Method: EPA 418.1
Matrix: Solids

Laboratory Control Sample Summary

Analyte	Spike Amount	Check Sample Concentration	QC Percent Recovery	Acceptability Limits Recovery
EPA 418.1 Units:mg/kg	QC Batch:070897IRSX-2			
Total Petroleum Hydrocarbons	150.	160.	107.	42-141%

Notes:
The accuracy limits are for a fuel oil #2 spike when the calibration is based on the standard reference oil.

NEI/GTEL Client ID: FWH03FWH03
Login Number: W7070088
Project ID (number): FWH03FWH03
Project ID (name): HAFB/T-38/HOLLOMAN/NM

QUALITY CONTROL RESULTS

Total Petroleum Hydrocarb
Method: EPA 4
Matrix: Solids

Matrix Spike(MS) and Matrix Spike Duplicate(MSD) Results

GTEL Sample ID:W7070088-01 MS ID:MS07008801 MSD ID:MD07008801
Analysis Date: 09-JUL-97 09-JUL-97 09-JUL-97

Units: mg/kg	Sample	Spikes Added		MS	MS	MSD	MSD		Acceptability Limits	
Analyte	Conc.	MS	MSD	Conc.	% Rec.	Conc.	% Rec.	RPD	RPD	%Rec.
Total Petroleum Hydrocarbons	34. (33.7)	150.	150.	206.	115.	248.	143.*	21.7	50	42-141

Notes:

Values in parentheses in the sample concentration column are used for % recovery calculations.

The accuracy limits are for a fuel oil #2 spike when the calibration is based on the standard reference oil.

070897IRSX-5: Sample spike recovery is outside of acceptability limits due to sample inhomogeneity. Blank spike recovery is within acceptability limits, therefore demonstrating method accuracy.

APPENDIX B

SWMUs 23/28

GTEL
ENVIRONMENTAL
LABORATORIES, INC.

Midwest Region
4211 May Avenue
Wichita, KS 67209
(316) 945-2624
(800) 633-7936
(316) 945-0506 (FAX)

January 29, 1996

Dan Holmquist
Foster Wheeler Environmental Corporation
241 Arkansas St. /Behind Rv Storage
Holloman Afb, NM 88330

RE: GTEL Client ID:	FWH03FWH03
Login Number:	W6010354
Project ID (number):	D011 WAD3
Project ID (name):	HOLLOMAN AFB/DO WAD/HOLLOMAN/NM

Dear Dan Holmquist:

Enclosed please find the analytical results for the samples received by GTEL Environmental Laboratories, Inc. on 01/25/96 under Chain-of-Custody Number(s) 44474.

A formal Quality Assurance/Quality Control (QA/QC) program is maintained by GTEL, which is designed to meet or exceed the EPA requirements. Analytical work for this project met QA/QC criteria unless otherwise stated in the footnotes. This report is to be reproduced only in full.

GTEL is certified by the State of Kansas under Certification Numbers E-103, E-1113.

If you have any questions regarding this analysis, or if we can be of further assistance, please call our Customer Service Representative.

Sincerely,
GTEL Environmental Laboratories, Inc.

Project Coordinator for

Terry R. Loucks
Laboratory Director

ANALYTICAL RESULTS
Total Petroleum Hydrocarbons

GTEL Client ID: FWH03FWH03
gin Number: W6010354
Project ID (number): D011 WAD3
Project ID (name): HOLLOMAN AFB/DO WAD/HOLLOMAN/NM

Method: EPA 418.1
Matrix: Solids

GTEL Sample Number	W6010354-01	W6010354-02	W6010354-03	W6010354-04
Client ID	SWMU23-01-05	SWMU23-02-05	SWMU23-03-05	SWMU23-04-05
Date Sampled	01/23/96	01/22/96	01/22/96	01/22/96
Date Prepared	01/26/96	01/26/96	01/26/96	01/26/96
Date Analyzed	01/29/96	01/29/96	01/29/96	01/29/96
Dilution Factor	1.00	10.0	1.00	1.00

Analyte	Reporting Limit	Units	Concentration:Wet Weight			
Total Petroleum Hydrocarbons	20.	mg/kg	2000	29000	520	1500
Percent Solids	--	%	83.3	80.5	75.5	83.1

Notes:

Dilution Factor:

Dilution factor indicates the adjustments made for sample dilution.

EPA 418.1:

Extraction is modified for soils by using EPA Method 9071 (soxhlet extraction). "Methods for Chemical Analysis of Water and Wastes", EPA 600/4-79-020, USEPA EMSL, Cincinnati, OH, Revised, March 1983.

GTEL Client ID: FWH03FWH03

QUALITY CONTROL RESULTS

Login Number: W6010354

Total Petroleum Hydrocarbons

Project ID (number): D011 WAD3

Method: EPA 41

Project ID (name): HOLLOMAN AFB/DO WAD/HOLLOMAN/NM

Matrix: Solids

Conformance/Non-Conformance Summary

(X = Requirements Met * = See Comments -- = Not Required NA = Not Applicable)

Conformance Item	Volatile Organics	Semi-Volatile Organics	Inorganics (MT, WC)
GC/MS Tune	--	--	NA
Initial Calibration	--	--	--
Continuing Calibration	--	X	--
Surrogate Recovery	--	--	NA
Holding Time	--	X	--
Method Accuracy	--	X	--
Method Precision	--	--	--
Blank Contamination	--	X	--

Comments:

GTEL Client ID: FWH03FWH03 QUALITY CONTROL RESULTS
Login Number: W6010354 Total Petroleum Hydrocarbons
Project ID (number): D011 WAD3 Method: EPA 418.1
Project ID (name): HOLLOMAN AFB/DO WAD/HOLLOMAN/NM Matrix: Solids

Surrogate Results

Notes:
*: Indicates values outside of acceptability limits. See Nonconformance Summary.

GTEL Client ID: FWH03FWH03

QUALITY CONTROL RESULTS

Login Number: W6010354

Total Petroleum Hydrocarbons

Project ID (number): D011 WAD3

Method: EPA 418

Project ID (name): HOLLOMAN AFB/DO WAD/HOLLOMAN/NM

Matrix: Sol

Method Blank Results

QC Batch No: 012696IRSX-1

Date Analyzed: 29-JAN-96

Analyte	Method:EPA 418.1	Concentration: mg/kg
Total Petroleum Hydrocarbons	< 20.0	

Notes:

GTEL Client ID: FWH03FWH03

QUALITY CONTROL RESULTS

Login Number: W6010354

Project ID (number): D011 WAD3

Project ID (name): HOLLOMAN AFB/DO WAD/HOLLOMAN/NM

Total Petroleum Hydrocarbons

Method: EPA 418.1

Matrix: Solids

Calibration Verification Sample Summary

Analyte	Spike Amount	Check Sample Concentration	QC Percent Recovery	Acceptability Limits Recovery
EPA 418.1 **Units:mg/L**	**QC Batch:012696IRSX-6**			
Total Petroleum Hydrocarbons	5.00	4.96	99.2	90-110%

Notes:

GTEL Client ID: FWH03FWH03

QUALITY CONTROL RESULTS

Login Number: W6010354

Total Petroleum Hydrocarbons

Project ID (number): D011 WAD3

Method: EPA 4

Project ID (name): HOLLOMAN AFB/DO WAD/HOLLOMAN/NM

Matrix: Soils

Laboratory Control Sample Summary

Analyte	Spike Amount	Check Sample Concentration	QC Percent Recovery	Acceptability Limits Recovery
EPA 418.1 **Units:mg/kg**	**QC Batch:012696IRSX-2**			
Total Petroleum Hydrocarbons	150.	186.	124.	40-140%

Notes:

The accuracy limits are for a fuel oil #2 spike when the calibration is based on the standard reference oil.

505-479-2081

NEI/GTEL ENVIRONMENTAL LABORATORIES, INC.

SAMPLE 23 + 28

Midwest Region
4211 May Avenue
Wichita, KS 67209
(316) 945-2624
(800) 633-7936
(316) 945-0506 (FAX)

February 4, 1997

Dan Holmquist
Foster Wheeler Environmental Corporation
241 Arkansas St. /Behind Rv Storage
Holloman A F B, NM 88330

RE: NEI/GTEL Client ID: FWH03FWH03
Login Number: W7010404
Project ID (number): DOIIWAD3 POL PHASEII
Project ID (name): HAFB/DOII WAD3/HOLLOMAN/NM

Dear Dan Holmquist:

Enclosed please find the analytical results for the samples received by NEI/GTEL Environmental Laboratories, Inc. on 01/30/97 under Chain-of-Custody Number(s) 47744.

A formal Quality Assurance/Quality Control (QA/QC) program is maintained by NEI/GTEL, which is designed to meet or exceed the EPA requirements. Analytical work for this project met QA/QC criteria unless otherwise stated in the footnotes. This report is to be reproduced only in full.

NEI/GTEL is certified by the U.S. Army Corp of Engineers Laboratory Validation, expiration date March 18, 1997.

If you have any questions regarding this analysis, or if we can be of further assistance, please call our Customer Service Representative.

Sincerely,
NEI/GTEL Environmental Laboratories, Inc.

John O. Sorter
QA/QC Manager for
Terry R. Loucks
Laboratory Director

ANALYTICAL RESULTS
Total Petroleum Hydrocarbons

NEI/GTEL Client ID: FWH03FWH03
Login Number: W7010404
Project ID (number): DOIIWAD3 POL PHASEII
Project ID (name): HAFB/DOII WAD3/HOLLOMAN/NM

Method: EPA 418.1
Matrix: Solids

NEI/GTEL Sample Number	W7010404-01	W7010404-02	W7010404-03	W7010404-04
Client ID	SWMU28-01-05	SWMU28-02-05	SWMU28-03-05	SWMU23-01-04
Date Sampled	01/27/97	01/27/97	01/27/97	01/29/97
Date Prepared	02/03/97	02/03/97	02/03/97	02/03/97
Date Analyzed	02/04/97	02/04/97	02/04/97	02/04/97
Dilution Factor	1.00	1.00	1.00	1.00

Analyte	Reporting Limit	Units	Concentration:Wet Weight			
Total Petroleum Hydrocarbons	20	mg/kg	< 20.	< 20.	< 20.	< 20.
Percent Solids	--	%	69.3	73.8	75.4	81.3

Notes:

Dilution Factor:

Dilution factor indicates the adjustments made for sample dilution.

EPA 418.1:

Extraction is modified for soils by using EPA Method 9071 (soxhlet extraction). "Methods for Chemical Analysis of Water and Wastes", EPA 600/4-79-020, USEPA EMSL, Cincinnati, OH, Revised, March 1983.

ANALYTICAL RESULTS
Total Petroleum Hydrocarbons

NEI/GTEL Client ID: FWH03FWH03
Login Number: W7010404
Project ID (number): DOIIWAD3 POL PHASEII
Project ID (name): HAFB/DOII WAD3/HOLLOHAN/NM

Method: EPA 418.1
Matrix: Solids

NEI/GTEL Sample Number	W7010404-05	W7010404-06	--	--
Client ID	SWMU23-02-04	SWMU23-03-04	--	--
Date Sampled	01/29/97	01/29/97	--	--
Date Prepared	02/03/97	02/03/97		
Date Analyzed	02/04/97	02/04/97	--	--
Dilution Factor	1.00	1.00	--	--

Analyte	Reporting Limit	Units	Concentration:Wet Weight			
Total Petroleum Hydrocarbons	20.	mg/kg	< 20.	< 20.	--	--
Percent Solids	--	%	76.8	78.2	--	--

Notes:

Dilution Factor:

Dilution factor indicates the adjustments made for sample dilution.

EPA 418.1:

Extraction is modified for soils by using EPA method 9071 (soxhlet extraction). "Methods for Chemical Analysis of Water and Wastes". EPA 600/4-79-020. USEPA EMSL, Cincinnati, OH, Revised, March 1983.

ANALYTICAL RESULTS
Volatile Organics

NEI/GTEL Client ID: FWH03FWH03
Login Number: W7010404
Project ID (number): DOIIWAD3 POL PHASEII
Project ID (name): HAFB/DOII WAD3/HOLLOMAN/NH

Method: EPA 8021A
Matrix: Aqueous

NEI/GTEL Sample Number	W7010404-07	--	--	--
Client ID	TB-13	--	--	--
Date Sampled		--	--	--
Date Analyzed	01/30/97	--	--	--
Dilution Factor	1.00	--	--	--

Analyte	Reporting Limit	Units	Concentration:			
Benzene	0.5	ug/L	< 0.5	--	--	--
Toluene	1.0	ug/L	< 1.0	--	--	--
Ethylbenzene	1.0	ug/L	< 1.0	--	--	--
Xylenes (total)	2.0	ug/L	< 2.0	--	--	--
TPH as Gasoline	100	ug/L	< 100	--	--	--

Notes:

Dilution Factor:

Dilution factor indicates the adjustments made for sample dilution.

EPA 8021A:

EPA 8021A: "Test Methods for Evaluating Solid Waste, Physical and Chemical Methods", SW-846, Third Edition, Revision 1, US EPA September 1994.

< TRANSACTION REPORT >

02-04-1997(TUE) 10:04

[RECEIVE]

NO.	DATE	TIME	DESTINATION STATION	PG.	DURATION	MODE	RESULT
17134	2-04	10:02		4	0'02'19"	FINE.E	OK
				4	0'02'19"		

SWMU 23

NEI/GTEL
ENVIRONMENTAL LABORATORIES, INC.

Midwest Region
4211 May Avenue
Wichita, KS 67209
(316) 945-2624
(800) 633-7936
(316) 945-0506 (FAX)

February 4, 1997

Dan Holmquist
Foster Wheeler Environmental Corporation
241 Arkansas St. /Behind Rv Storage
Holloman A F B, NM 88330

RE: NEI/GTEL Client ID:	FWH03FWH03
Login Number:	W7010404
Project ID (number):	DOIIWAD3 POL PHASEII
Project ID (name):	HAFB/DOII WAD3/HOLLOMAN/NM

Dear Dan Holmquist:

Enclosed please find the analytical results for the samples received by NEI/GTEL Environmental Laboratories, Inc. on 01/30/97 under Chain-of-Custody Number(s) 47744.

A formal Quality Assurance/Quality Control (QA/QC) program is maintained by NEI/GTEL, which is designed to meet or exceed the EPA requirements. Analytical work for this project met QA/QC criteria unless otherwise stated in the footnotes. This report is to be reproduced only in full.

NEI/GTEL is certified by the U.S. Army Corp of Engineers Laboratory Validation, expiration date March 18, 1997.

If you have any questions regarding this analysis, or if we can be of further assistance, please call our Customer Service Representative.

Sincerely,
NEI/GTEL Environmental Laboratories, Inc.

John O. Sattler
QA/QC Manager for
Terry R. Loucks
Laboratory Director

RECEIVED FEB 14 1997

ANALYTICAL RESULTS
Total Petroleum Hydrocarbons

NEI/GTEL Client ID: FWH03FWH03
'ogin Number: W7010404
oject ID (number): DOIIWAD3 POL PHASEII
rroject ID (name): HAFB/DOII WAD3/HOLLOMAN/NM

Method: EPA 418.1
Matrix: Solids

NEI/GTEL Sample Number	W7010404-01	W7010404-02	W7010404-03	W7010404-04
Client ID	SWMU28-01-05	SWMU28-02-05	SWMU28-03-05	SWMU23-01-04
Date Sampled	01/27/97	01/27/97	01/27/97	01/29/97
Date Prepared	02/03/97	02/03/97	02/03/97	02/03/97
Date Analyzed	02/04/97	02/04/97	02/04/97	02/04/97
Dilution Factor	1.00	1.00	1.00	1.00

Analyte	Reporting Limit	Units	Concentration:Wet Weight			
Total Petroleum Hydrocarbons	20.	mg/kg	< 20.	< 20.	< 20.	< 20.
Percent Solids	--	%	69.3	73.8	75.4	81.3

Notes:

Dilution Factor:

Dilution factor indicates the adjustments made for sample dilution.

EPA 418.1:

Extraction is modified for soils by using EPA Method 9071 (soxhlet extraction). "Methods for Chemical Analysis of Water and Wastes", EPA 600/4-79-020, USEPA EMSL, Cincinnati, OH, Revised, March 1983.

ANALYTICAL RESULTS
Total Petroleum Hydrocarbons

NEI/GTEL Client ID: FWH03FWH03
Login Number: W7010404
Project ID (number): DOIIWAD3 POL PHASEII
Project ID (name): HAFB/DOII WAD3/HOLLOMAN/NM

Method: EPA 418.1
Matrix: Solids

NEI/GTEL Sample Number	W7010404-05	W7010404-06	--	--
Client ID	SWMU23-02-04	SWMU23-03-04	--	--
Date Sampled	01/29/97	01/29/97	--	--
Date Prepared	02/03/97	02/03/97		
Date Analyzed	02/04/97	02/04/97	--	--
Dilution Factor	1.00	1.00	--	--

Analyte	Reporting Limit	Units	Concentration:Wet Weight			
Total Petroleum Hydrocarbons	20.	mg/kg	< 20.	< 20.	--	--
Percent Solids	--	%	76.8	78.2	--	--

Notes:

Dilution Factor:

Dilution factor indicates the adjustments made for sample dilution.

EPA 418.1:

Extraction is modified for soils by using EPA Method 9071 (soxhlet extraction). "Methods for Chemical Analysis of Water and Wastes", EPA 600/4-79-020, USEPA EMSL, Cincinnati, OH, Revised, March 1983.

NEI/GTEL Client ID: FWH03FWH03 QUALITY CONTROL RESULTS
Login Number: W7010404 Total Petroleum Hydrocarbons
oject ID (number): DOIIWAD3 POL PHASEII Method: EPA 418.1
oject ID (name): HAFB/DOII WAD3/HOLLOMAN/NM Matrix: Solids

Method Blank Results

QC Batch No: 020397IRSX-1
Date Analyzed: 04-FEB-97

Analyte	Method:EPA 418.1	Concentration: mg/kg
Total Petroleum Hydrocarbons	< 20.0	

Notes:

NEI/GTEL Client ID: FWH03FWH03
Login Number: W7010404
Project ID (number): DOIIWAD3 POL PHASEII
Project ID (name): HAFB/DOII WAD3/HOLLOMAN/NM

QUALITY CONTROL RESULTS

Total Petroleum Hydrocarbons
Method: EPA 418.1
Matrix: So

Calibration Verification Sample Summary

Analyte	Spike Amount	Check Sample Concentration	QC Percent Recovery	Acceptability Limits Recovery
EPA 418.1 Units:mg/L	QC Batch:020397IRSX-6			
Total Petroleum Hydrocarbons	5.00	5.36	107.	90-110%

Notes:

NEI/GTEL Client ID: FWH03FWH03 QUALITY CONTROL RESULTS
Login Number: W7010404 Total Petroleum Hydrocarbons
Project ID (number): DOIIWAD3 POL PHASEII Method: EPA 418.1
Project ID (name): HAFB/DOII WAD3/HOLLOMAN/NM Matrix: Solids

Laboratory Control Sample Summary

Analyte	Spike Amount	Check Sample Concentration	QC Percent Recovery	Acceptability Limits Recovery
EPA 418.1 Units:mg/kg	QC Batch:020397IRSX-2			
Total Petroleum Hydrocarbons	150.	196.	131.	42-141%

Notes:
The accuracy limits are for a fuel oil #2 spike when the calibration is based on the standard reference oil.

NEI/GTEL Client ID: FWH03FWH03 QUALITY CONTROL RESULTS
Login Number: W7010404 Total Petroleum Hydrocarbons
Project ID (number): DOIIWAD3 POL PHASEII Method: EPA 418.1
Project ID (name): HAFB/DOII WAD3/HOLLOMAN/NM Matrix: Sc

Matrix Spike(MS) and Matrix Spike Duplicate(MSD) Results

GTEL Sample ID:W7010404-01 MS ID:MS01040401 MSD ID:MD01040401
Analysis Date: 04-FEB-97 04-FEB-97 04-FEB-97

Units: mg/kg	Sample	Spikes Added		MS	MS	MSD	MSD		Acceptability Limits	
Analyte	Conc.	MS	MSD	Conc.	% Rec.	Conc.	% Rec.	RPD	RPD	%Rec.
Total Petroleum Hydrocarbons	< 20. (2.57)	150.	150.	192.	126.	200.	132.	4.70	50	42-141

Notes:
Values in parentheses in the sample concentration column are used for % recovery calculations.
The accuracy limits are for a fuel oil #2 spike when the calibration is based on the standard reference oil.

NEI/GTEL Client ID: FWH03FWH03 QUALITY CONTROL RESULTS
Login Number: W7010404 Total Petroleum Hydrocarbons
Project ID (number): DOIIWAD3 POL PHASEII Method: EPA 418.1
Project ID (name): HAFB/DOII WAD3/HOLLOMAN/NM Matrix: Solids

Conformance/Non-Conformance Summary

(X = Requirements Met * = See Comments -- = Not Required NA = Not Applicable)

Conformance Item	Volatile Organics	Semi-Volatile Organics	Inorganics (MT, WC)
GC/MS Tune	--	--	NA
Initial Calibration	--	--	--
Continuing Calibration	--	X	--
Surrogate Recovery	--	--	NA
Holding Time	--	X	--
Method Accuracy	--	X	--
Method Precision	--	X	--
Blank Contamination	--	X	--

Comments:

ANALYTICAL RESULTS
Volatile Organics

NEI/GTEL Client ID: FWH03FWH03
Login Number: W7010404
Project ID (number): DOIIWAD3 POL PHASEII
Project ID (name): HAFB/DOII WAD3/HOLLOMAN/NM

Method: EPA 8021A
Matrix: Aqueous

NEI/GTEL Sample Number	W7010404-07	--	--	--
Client ID	TB-13	--	--	--
Date Sampled		--	--	--
Date Analyzed	01/30/97	--	--	--
Dilution Factor	1.00	--	--	--

Analyte	Reporting Limit	Units	Concentration:			
Benzene	0.5	ug/L	< 0.5	--	--	--
Toluene	1.0	ug/L	< 1.0	--	--	--
Ethylbenzene	1.0	ug/L	< 1.0	--	--	--
Xylenes (total)	2.0	ug/L	< 2.0	--	--	--
TPH as Gasoline	100	ug/L	< 100	--	--	--

Notes:

Dilution Factor:

Dilution factor indicates the adjustments made for sample dilution.

EPA 8021A:

EPA 8021A: "Test Methods for Evaluating Solid Waste, Physical and Chemical Methods", SW-846, Third Edition, Revision 1, US EPA September 1994.

NEI/GTEL Client ID: FWH03FWH03 QUALITY CONTROL RESULTS
Login Number: W7010404 Volatile Organics
Project ID (number): DOIIWAD3 POL PHASEII Method: EPA 8021A
Project ID (name): HAFB/DOII WAD3/HOLLOMAN/NM Matrix: Aqueous

Surrogate Results

QC Batch No.	Reference	Sample ID	TFT	BFB
Method: EPA 8021A		Acceptability Limits:	80-120%	80-120%
013097GC4-1	CV013097204	Calibration Verifi	95.2	102.
013097GC4-3	BW0130974	Method Blank Water	94.1	92.9
013097GC4-4	MS01034503	Matrix Spike	101.	109.
013097GC4-5	DP01034508	Duplicate	107.	107.
013097GC4-8	LW0130974	Laboratory Control	106.	106.
013097GC4-9	LWD0130974	LCS Water Duplicat	107.	107.
--	01040407	TB-13	97.9	102.

Notes:
*: Indicates values outside of acceptability limits. See Nonconformance Summary.

NEI/GTEL Client ID: FWH03FWH03 QUALITY CONTROL RESULTS
Login Number: W7010404 Volatile Organics
Project ID (number): DOIIWAD3 POL PHASEII Method: EPA 8021A
Project ID (name): HAFB/DOII WAD3/HOLLOMAN/NM Matrix: Aqu

Method Blank Results

QC Batch No: 013097GC4-3
Date Analyzed: 30-JAN-97

Analyte	Method:EPA 8021A Concentration: ug/L
Benzene	< 0.500
Toluene	< 1.00
Ethylbenzene	< 1.00
Xylenes (Total)	< 2.00
TPH as Gasoline	< 100.

Notes:

NEI/GTEL Client ID: FWH03FWH03 QUALITY CONTROL RESULTS
Login Number: W7010404 Volatile Organics
Project ID (number): DOIIWAD3 POL PHASEII Method: EPA 8021A
Project ID (name): HAFB/DOII WAD3/HOLLOMAN/NM Matrix: Aqueous

Calibration Verification Sample Summary

Analyte	Spike Amount	Check Sample Concentration	QC Percent Recovery	Acceptability Limits Recovery
EPA 8021A Units:ug/L	QC Batch:013097GC4-1			
Benzene	20.0	17.6	88.0	85-115%
Toluene	20.0	18.0	90.0	85-115%
Ethylbenzene	20.0	18.3	91.5	85-115%
Xylenes (Total)	60.0	56.3	93.8	85-115%
TPH as Gasoline	500.	513.	103.	80-120%

Notes:

NEI/GTEL Client ID: FWH03FWH03 QUALITY CONTROL RESULTS
Login Number: W7010404 Volatile Organics
Project ID (number): DOIIWAD3 POL PHASEII Method: EPA 8
Project ID (name): HAFB/DOII WAD3/HOLLOMAN/NM Matrix: Aque

Duplicate Sample Results

Analyte	Original Concentration	Duplicate Concentration	RPD, %	Acceptability Limits, %
EPA 8021A Units: ug/L	QC Batch: 013097GC4-5	GTEL Sample ID: W7010345-08		Client ID: Batch QC
Benzene	588.	572.	2.76	23.9
Toluene	279.	271.	2.91	27.2
Ethylbenzene	11.8	10.6	10.7	21.6
Xylenes (Total)	360.	347.	3.68	22.0
TPH as Gasoline	6490	6280	3.29	20

Notes:

NEI/GTEL Client ID: FWH03FWH03 QUALITY CONTROL RESULTS
Login Number: W7010404 Volatile Organics
oject ID (number): DOIIWAD3 POL PHASEII Method: EPA 8021A
oject ID (name): HAFB/DOII WAD3/HOLLOMAN/NM Matrix: Aqueous

Matrix Spike(MS) Results

GTEL Sample ID:W7010345-03 MS ID:MS01034503
Analysis Date: 30-JAN-97 30-JAN-97

Units: ug/L Analyte	Sample Conc.	Spike Added	MS Conc.	MS % Rec.	Acceptability Limits %Rec.
Benzene	< 0.5 (0.000)	20.0	19.1	95.5	80-120
Toluene	< 1.0 (0.290)	20.0	19.7	97.1	80-120
Ethylbenzene	< 1.0 (0.000)	20.0	20.0	100.	80-120
Xylenes (Total)	< 2.0 (0.000)	60.0	61.6	103.	80-120

Notes:
Values in parentheses in the sample concentration column are used for % recovery calculations.

NEI/GTEL Client ID: FWH03FWH03 QUALITY CONTROL RESULTS
Login Number: W7010404 Volatile Organics
Project ID (number): DOIIWAD3 POL PHASEII Method: EPA 8021A
Project ID (name): HAFB/DOII WAD3/HOLLOMAN/NM Matrix: Aqu

Laboratory Control Sample (LCS) and Laboratory Control Duplicate Results

Analyte	Spike Amount	LCS Concentration	LCS Recovery, %	LCS Duplicate Concentration	LCS Duplicate Recovery, %	RPD, %	Acceptability Limits RPD, %	Acceptability Limits Recovery, %
EPA 8021A Units: ug/L		QC Batch:013097GC4-9						
Benzene	20.0	19.4	97.0	19.4	97.0	0.00	20	80-120%
Toluene	20.0	19.7	98.5	19.7	98.5	0.00	20	80-120%
Ethylbenzene	20.0	20.2	101.	20.2	101.	0.00	20	80-120%
Xylenes (Total)	60.0	62.1	104.	61.9	103.	0.966	20	80-120%

Notes:

NEI/GTEL Client ID: FWH03FWH03 QUALITY CONTROL RESULTS
Login Number: W7010404 Volatile Organics
Project ID (number): DOIIWAD3 POL PHASEII Method: EPA 8021A
Project ID (name): HAFB/DOII WAD3/HOLLOMAN/NM Matrix: Aqueous

Conformance/Non-Conformance Summary

(X = Requirements Met * = See Comments -- = Not Required NA = Not Applicable)

Conformance Item	Volatile Organics	Semi-Volatile Organics	Inorganics (MT, WC)
GC/MS Tune	--	--	NA
Initial Calibration	--	--	--
Continuing Calibration	X	--	--
Surrogate Recovery	X	--	NA
Holding Time	--	--	--
Method Accuracy	X	--	--
Method Precision	X	--	--
Blank Contamination	X	--	--

Comments:

ANALYTICAL RESULTS
Total Petroleum Hydrocarbons

NEI/GTEL Client ID: FWH03FWH03
Login Number: W7010404
Project ID (number): DOIIWAD3 POL PHASEII
Project ID (name): HAFB/DOII WAD3/HOLLOMAN/NM

Method: EPA 418.1
Matrix: Solids

NEI/GTEL Sample Number	W7010404-05	W7010404-06	--	--
Client ID	SWMU23-02-04	SWMU23-03-04	--	--
Date Sampled	01/29/97	01/29/97	--	--
Date Prepared	02/03/97	02/03/97		
Date Analyzed	02/04/97	02/04/97	--	--
Dilution Factor	1.00	1.00	--	--

Analyte	Reporting Limit	Units	Concentration:Wet Weight			
Total Petroleum Hydrocarbons	20.	mg/kg	< 20.	< 20.	--	--
Percent Solids	--	%	76.8	78.2	--	--

Notes:

Dilution Factor:

Dilution factor indicates the adjustments made for sample dilution.

EPA 418.1:

Extraction is modified for soils by using EPA Method 9071 (soxhlet extraction). "Methods for Chemical Analysis of Water and Wastes", EPA 600/4-79-020, USEPA EMSL, Cincinnati, OH, Revised, March 1983.

ANALYTICAL RESULTS
Volatile Organics

NEI/GTEL Client ID: FWH03FWH03
Login Number: W7010404
Project ID (number): DOIIWAD3 POL PHASEII
Project ID (name): HAFB/DOII WAD3/HOLLOMAN/NM

Method: EPA 8021A
Matrix: Aqueous

NEI/GTEL Sample Number	W7010404-07	--	--	--
Client ID	TB-13	--	--	--
Date Sampled		--	--	--
Date Analyzed	01/30/97	--	--	--
Dilution Factor	1.00	--	--	--

Analyte	Reporting Limit	Units	Concentration:			
Benzene	0.5	ug/L	< 0.5	--	--	--
Toluene	1.0	ug/L	< 1.0	--	--	--
Ethylbenzene	1.0	ug/L	< 1.0	--	--	--
Xylenes (total)	2.0	ug/L	< 2.0	--	--	--
TPH as Gasoline	100	ug/L	< 100	--	--	--

Notes:

Dilution Factor:

Dilution factor indicates the adjustments made for sample dilution.

EPA 8021A:

EPA 8021A: "Test Methods for Evaluating Solid Waste, Physical and Chemical Methods", SW-846, Third Edition, Revision 1, US EPA September 1994.

< TRANSACTION REPORT >

02-04-1997(TUE) 10:04

[RECEIVE]

NO.	DATE	TIME	DESTINATION STATION	PG.	DURATION	MODE	RESULT
17134	2-04	10:02		4	0°02'19"	FINE.E	OK
				4	0°02'19"		

SLOMV 28

NEI/GTEL
ENVIRONMENTAL LABORATORIES, INC.

Midwest Region
4211 May Avenue
Wichita, KS 67209
(316) 945-2624
(800) 633-7936
(316) 945-0506 (FAX)

March 11, 1997

Dan Holmquist
Foster Wheeler Environmental Corporation
241 Arkansas St. /Behind Rv Storage
Holloman A F B, NM 88330

RE:	NEI/GTEL Client ID:	FWH03FWH03
	Login Number:	W7030045
	Project ID (number):	DOIIWAD3 POL PHASEII
	Project ID (name):	HAFB/DOII WAD3/HOLLOMAN/NM

Dear Dan Holmquist:

Enclosed please find the analytical results for the samples received by NEI/GTEL Environmental Laboratories, Inc. on 03/05/97 under Chain-of-Custody Number(s) 47745.

A formal Quality Assurance/Quality Control (QA/QC) program is maintained by NEI/GTEL, which is designed to meet or exceed the EPA requirements. Analytical work for this project met QA/QC criteria unless otherwise stated in the footnotes. This report is to be reproduced only in full.

NEI/GTEL is certified by the U.S. Army Corp of Engineers Laboratory Validation, expiration date March 18, 1997.

If you have any questions regarding this analysis, or if we can be of further assistance, please call our Customer Service Representative.

Sincerely,
NEI/GTEL Environmental Laboratories, Inc.

RECEIVED MAR 17 1997

Terry R. Loucks
Laboratory Director

ANALYTICAL RESULTS
Paint Filter

NEI/GTEL Client ID: FWH03FWH03
ogin Number: W7030045
.roject ID (number): DOIIWAD3 POL PHASEII
Project ID (name): HAFB/DOII WAD3/HOLLOMAN/NM

Method: EPA 9095
Matrix: Solids

NEI/GTEL Sample Number	W7030045-01	W7030045-02	--	--
Client ID	SWMU28-SP	SWMU23-SP	--	--
Date Sampled	03/03/97	03/03/97	--	--
Date Analyzed	03/07/97	03/07/97	--	--
Dilution Factor	1.00	1.00	--	--

Analyte	Reporting Limit	Units	Concentration:Wet Weight			
Paint Filter Liquids Test	--	std	Not Present	Not Present	--	--
Percent Solids	--	%	72.9	87.2	--	--

Notes:

Dilution Factor:

Dilution factor indicates the adjustments made for sample dilution.

EPA 9095:

"Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW-846, Third Edition including Update 2.

ANALYTICAL RESULTS
Results For Multiple Methods

NEI/GTEL Client ID: FWH03FWH03
Login Number: W7030045
Project ID (number): DOIIWAD3 POL PHASEII
Project ID (name): HAFB/DOII WAD3/HOLLOMAN/NM

Method: See Below
Matrix: Solids

	NEI/GTEL Sample Number	W7030045-01	W7030045-02	--	--
	Client ID	SWMU28-SP	SWMU23-SP	--	--
	Date Sampled	03/03/97	03/03/97	--	--
ASTM D93	Date Analyzed	03/07/97	03/07/97	--	--
ASTM D93	Dilution Factor	1.00	1.00	--	--
EPA 9010A	Date Prepared	03/06/97	03/06/97	--	--
EPA 9010A	Date Analyzed	03/07/97	03/07/97	--	--
EPA 9010A	Dilution Factor	1.00	1.00	--	--
EPA 9045B	Date Analyzed	03/07/97	03/07/97	--	--
EPA 9045B	Dilution Factor	1.00	1.00	--	--
EPA SW 846, CH. 7	Date Prepared	03/06/97	03/06/97	--	--
EPA SW 846, CH. 7	Date Analyzed	03/06/97	03/06/97	--	--
EPA SW 846, CH. 7	Dilution Factor	1.00	1.00	--	--

Analyte		Reporting Limit	Units	Concentration:Dry Weight			
Inorganics (MT, WC)							
Total Cyanide	EPA 9010A	2.0	mg/kg	< 2.0	< 2.0	--	--
Flashpoint (Closed Cup)	ASTM D93	70.0	deg F	> 200.	> 200.	--	--
pH	EPA 9045B	0.	pH	7.0	7.2	--	--
Reactive Sulfide	EPA SW 846, CH.	25.	mg/kg	< 25.	< 25.	--	--
Percent Solids	--		%	72.9	87.2	--	--

Notes:

Dilution Factor:

Dilution factor indicates the adjustments made for sample dilution.

ASTM D93:

Annual Book of ASTM Standards, 1983 Revision.

EPA 9010A, EPA 9045B, EPA SW 846, CH. 7:

"Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW-846, Third Edition including Update 2.

Project ID (Number): DOIIWD3 POL PHASEII
Project ID (Name): HAFB
DOII WAD3
Holloman, NM
Work Order Number: W7-03-0045
Date Reported: 03-10-97

QA NONCONFORMANCE SUMMARY

Inorganics

1.0 Sample Handling

1.1 Sample handling and holding time criteria were not met for zero samples.

2.0 Initial and Continuing Calibration Verification

2.1 The criteria for the calibration verification QC Check Sample was exceeded for zero samples as shown in Table 2.

3.0 Method Blanks

3.1 Zero target analytes were found in the method blank as shown in Table 3.

4.0 Matrix Spike (MS) Accuracy

4.1 The recovery limits were exceeded in the matrix spike for zero analyte as shown in Table 4.

5.0 Matrix Spike Duplicate Precision

5.1 The maximum percent difference (RPD) was exceeded for zero analytes in the duplicate samples as shown in Table 5.

6.0 Laboratory Control Sample

6.1 The recovery limits were not met for zero analytes in the Laboratory Control Sample as shown in Table 6.

Project ID (Number): DOIIWD3 POL PHASEII
Project ID (Name): HAFB
DOII WAD3
Holloman, NM
Work Order Number: W7-03-0045
Date Reported: 03-10-97

Table 2A

INITIAL CALIBRATION VERIFICATION QC CHECK SAMPLE REPORT

Inorganics

Analyte	Expected Result	Observed Result	Units	Recovery, %	Acceptability Limits, %[a]
Total Cyanide	0.192	0.204	mg/L	106	90-110

a Acceptability limits established by laboratory practice.

Table 3

BLANK REPORT

Inorganics

Analyte	Initial Calibration Blank	Units	Preparation Blank	Units
Total Cyanide	<0.02	mg/L	<2.0	mg/Kg
Reactivity Sulfate	<25	mg/Kg	<25	mg/Kg

NA Not Applicable

Project ID (Number): DOIIWD3 POL PHASEII
Project ID (Name): HAFB
DOII WAD3
Holloman, NM
Work Order Number: W7-03-0045
Date Reported: 03-10-97

Table 4

MATRIX SPIKE (MS) RECOVERY SUMMARY

Inorganics

Sample Spiked: Total Cyanide W7030045-01
Sample Spiked: Reactivity Sulfate W7030045-01

Analyte	MS Sample Result	Sample Result	Amount Added	Units	MS, % Recovery	Acceptability Limits, %[a]
Total Cyanide	16.0	<2.0	18.2	mg/Kg	87.8	80-120
Reactivity Sulfate	329	<25	478	mg/Kg	68.8	60-140

a Acceptability limits established by laboratory practice.

Table 5

MATRIX SPIKE DUPLICATE SAMPLE RESULTS
AND RELATIVE PERCENT DIFFERENCE (RPD) SUMMARY

Inorganics

Analyte	Matrix Spike Result	Matrix Spike Duplicate Result	Units	RPD, %	Maximum RPD, %[a]
Total Cyanide	16.0	16.4	mg/Kg	2.93	20
Reactivity Sulfate	329	365	mg/Kg	10.4	20

a Acceptability limits established by laboratory practice.

Table 6

LABORATORY CONTROL SAMPLE RESULTS

Inorganics

Analyte	Expected Result	Observed Result	Units	Recovery, %	Acceptability Limits, %[a]
Total Cyanide	20.4	17.0	mg/L	83.5	80-120
Reactivity Sulfate	484	344	mg/L	71.7	60-140

a Acceptability limits established by laboratory practice.

ANALYTICAL RESULTS
Results For Multiple Methods

NEI/GTEL Client ID: FWH03FWH03
Login Number: W7030045
Project ID (number): DOIIWAD3 POL PHASEII
Project ID (name): HAFB/DOII WAD3/HOLLOMAN/NM

Method: See Below
Matrix: Solids

	NEI/GTEL Sample Number	W7030045-01	W7030045-02	--	--
	Client ID	SWMU28-SP	SWMU23-SP	--	--
	Date Sampled	03/03/97	03/03/97	--	--
EPA 6010A	Date Prepared	03/05/97	03/05/97	--	--
EPA 6010A	Date Analyzed	03/05/97	03/05/97	--	--
EPA 6010A	Dilution Factor	1.00	1.00	--	--
EPA 7421	Date Prepared	03/06/97	03/06/97	--	--
EPA 7421	Date Analyzed	03/07/97	03/07/97	--	--
EPA 7421	Dilution Factor	0.560	0.560	--	--
EPA 7471A	Date Prepared	03/05/97	03/05/97	--	--
EPA 7471A	Date Analyzed	03/06/97	03/06/97	--	--
EPA 7471A	Dilution Factor	1.00	1.00	--	--

Analyte		Reporting Limit	Units	Concentration:Dry Weight			
Inorganics (MT, WC)							
Arsenic	EPA 6010A	40.	mg/kg	< 40.	< 40.	--	--
Barium	EPA 6010A	20.	mg/kg	21.	30.	--	--
Cadmium	EPA 6010A	2.0	mg/kg	< 2.0	< 2.0	--	--
Chromium	EPA 6010A	3.0	mg/kg	< 3.0	4.3	--	--
Lead	EPA 7421	0.40	mg/kg	1.3	1.2	--	--
Mercury	EPA 7471A	0.25	mg/kg	< 0.25	< 0.25	--	--
Selenium	EPA 6010A	20.	mg/kg	< 20.	< 20.	--	--
Silver	EPA 6010A	2.0	mg/kg	< 2.0	< 2.0	--	--
Percent Solids	--		%	72.9	87.2	--	--

Notes:

Dilution Factor:

Dilution factor indicates the adjustments made for sample dilution.

EPA 6010A, EPA 7421:

Digestion by EPA Method 3050A.

EPA 6010A, EPA 7421, EPA 7471A:

"Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW-846, Third Edition including Update 2.

W7030045-01:

Recovery limits were exceeded for silver in the matrix spike due to precipitation of the spike in the presence of concentrated acid. Recovery limits were exceeded for lead in the matrix spike due to heterogeneity. The maximum relative percent difference was exceeded for silver between the matrix spike and matrix spike duplicate due to precipitation of the spike in the presence of concentrated acid. The maximum relative percent difference was exceeded for lead between the matrix spike and matrix spike duplicate due to heterogeneity.

Project Number: DOIIWAD3 POL PHASEII
Project ID Name: HAFB
DOII WAD3
Holloman, NM
Work Order Number: W7-03-0045
Date Reported: 03-10-97

QA NONCONFORMANCE SUMMARY

Metals in Soil

1.0 Sample Handling

1.1 Sample handling and holding time criteria were not met for zero samples.

2.0 Initial Calibration Verification

2.1 The validity for the calibration verification was exceeded for zero samples as shown in Table 2.

3.0 Method Blanks

3.1 Zero target elements were found in the method blank as shown in Table 3.

4.0 Matrix Spike (MS) Accuracy

4.1 The recovery limits were exceeded in the matrix spike sample for two elements as shown in Table 4A.

4.2 Recovery limits were exceeded for silver in the matrix spike sample due to precipitation of the spike in the presence of concentrated acid.

4.3 Recovery limits were exceeded for lead in the matrix spike sample due to heterogeneity.

4.4 The LCS and LCS duplicate samples for the elements listed above were in control as shown in Table 5.

5.0 Sample Duplicate Precision

5.1 The maximum percent difference (RPD) was exceeded for two elements in the matrix spike and matrix spike duplicate samples as shown in Table 4A and 4B.

5.2 The maximum relative percent difference was exceeded for silver between the matrix spike and matrix spike duplicate samples due to precipitation of the spike in the presence of concentrated acid.

5.3 The maximum relative percent difference was exceeded for lead between the matrix spike and matrix spike duplicate samples due to heterogeneity.

6.0 Laboratory Control Sample

6.1 The recovery limits were not met for zero elements for the laboratory control samples as shown in Table 5.

Project Number: DOIIWAD3 POL PHASEII
Project ID Name: HAFB
DOII WAD3
Holloman, NM
Work Order Number: W7-03-0045
Date Reported: 03-10-97

Table 2

INITIAL CALIBRATION VERIFICATION QC CHECK SAMPLE REPORT

Metals in Soil

Analyte	Expected Result, mg/L	Observed Result, mg/L	Recovery, %	Acceptability Limits, %[a]
Arsenic	1.00	1.02	102	90-110
Barium	1.00	1.04	104	90-110
Cadmium	1.00	1.04	104	90-110
Chromium	1.00	1.04	104	90-110
Lead	0.0200	0.0210	105	90-110
Mercury	0.0040	0.00390	97.5	90-110
Selenium	1.00	1.06	106	90-110
Silver	0.500	0.532	106	90-110

a Acceptability limits as per EPA Contract Laboratory Program

Project Number: DOIIWAD3 POL PHASEII
Project ID Name: HAFB
DOII WAD3
Holloman, NM
Work Order Number: W7-03-0045
Date Reported: 03-10-97

Table 3

BLANK REPORT

Metals in Soil

Analyte	Initial Calibration Blank, mg/L	Preparation Blank, mg/Kg
Arsenic	<0.20	<20
Barium	<0.20	<20
Cadmium	<0.020	<2.0
Chromium	<0.030	<3.0
Lead	<0.0040	<4.0
Mercury	<0.0025	<0.25
Selenium	<0.20	<20
Silver	<0.020	<2.0

<# Not detected at the indicated detection limit (#)

Project Number: DOIIWAD3 POL PHASEII
Project ID Name: HAFB
DOII WAD3
Holloman, NM
Work Order Number: W7-03-0045
Date Reported: 03-10-97

Table 4A

MATRIX SPIKE AND MATRIX SPIKE DUPLICATE SUMMARY

Metals in Soil

Sample Spiked: Method 6010A W7030045-01
Sample Spiked: Method 7121 W7030045-01
Sample Spiked: Method 7471A W7030045-01

Analyte	Spike Added, mg/Kg	Sample Concentration, mg/Kg	MS Concentration, mg/Kg	MS Percent Recovery	Acceptability Limits, %[a]
Arsenic	169	<40	154	90.6	80-120
Barium	169	<20	154	91.0	80-120
Cadmium	85.6	<2.0	76.5	89.4	80-120
Chromium	169	<3.0	148	87.4	80-120
Lead	1.87	2.97	5.45	131[b]	75-125
Mercury	0.303	<0.25	0.248	81.8	75-125
Selenium	169	<20	163	96.2	80-120
Silver	33.9	<2.0	14.8	43.7[b]	80-120

a Acceptability limits as per EPA Contract Laboratory Program.

b Value is outside of acceptability limits.

NA Not applicable; initial sample concentration greater than four times the spike amount.

Project Number: DOIIWAD3 POL PHASEII
Project ID Name: HAFB
DOII WAD3
Holloman, NM
Work Order Number: W7-03-0045
Date Reported: 03-10-97

Table 4B

MATRIX SPIKE AND MATRIX SPIKE DUPLICATE SUMMARY

Metals in Soil

Analyte	Spike Added, mg/Kg	MSD Concentration, mg/Kg	MSD Percent Recovery	RPD %	Acceptability Limits, %[a]
					RPD
Arsenic	147	127	86.5	4.72	20.0
Barium	147	128	87.2	4.24	20.0
Cadmium	74.3	61.7	83.1	7.24	20.0
Chromium	147	119	80.6	8.08	20.0
Lead	1.85	4.85	102	25.7[b]	20.0
Mercury	0.260	0.209	80.5	1.69	20.0
Selenium	147	135	91.6	4.91	20.0
Silver	29.4	17	57.9	27.9[b]	20.0

a Acceptability limits as per EPA Contract Laboratory Program.

b Value is outside of acceptability limits.

NA Not applicable; initial sample concentration greater than four times the spike amount.

Project Number: DOIIWAD3 POL PHASEII
Project ID Name: HAFB
DOII WAD3
Holloman, NM
Work Order Number: W7-03-0045
Date Reported: 03-10-97

Table 5

LABORATORY CONTROL SAMPLE RESULTS

Metals in Soil

Analyte	Expected Result, mg/Kg	Observed Result, mg/Kg	Recovery, %	Acceptability Limits, %[a]
Arsenic	200	183	91.5	80-120
Barium	200	192	96.0	80-120
Cadmium	101	94.8	93.9	80-120
Chromium	200	195	97.5	80-120
Lead (LCS)	2.00	2.11	106	75-125
Lead (LCSD)	2.00	2.10	105	75-125
Mercury	0.333	0.268	80.5	75-125
Selenium	200	195	97.5	80-120
Silver (LCS)	40.0	37.2	93.0	80-120
Silver (LCSD)	40.0	37.5	93.8	80-120

a Acceptability limits established by laboratory practice

Project ID (Number): SOIIWAD3 POL PHASEII
Project ID (Name): HAFB
DOII WAD3
Holloman, NM
Work Order Number: W7-03-0045
Date Reported: 03-10-97

ANALYTICAL RESULTS

Semivolatile Organics in TCLP Leachate[a]
EPA Method 8270B[b]

	GTEL File Number	01	02		
	Client Identification	SWMU28-SP	SWMU23-SP		
	Date Sampled	03-03-97	03-03-97		
	Date Leached	03-05-97	03-05-97		
	Date Extracted	03-06-97	03-06-97		
	Extraction Fluid	#1	#1		
	Date Analyzed	03-08-97	03-08-97		
Analyte	Quantitation Limit, mg/L	Concentration, mg/L			
o-Cresol	0.033	<0.033	<0.033		
m-Cresol + p-Cresol	0.033	<0.033	<0.033		
1,4-Dichlorobenzene	0.033	<0.033	<0.033		
2,4-Dinitrotoluene	0.033	<0.033	<0.033		
Hexachloro-1,3-butadiene	0.033	<0.033	<0.033		
Hexachlorobenzene	0.033	<0.033	<0.033		
Hexachloroethane	0.033	<0.033	<0.033		
Nitrobenzene	0.033	<0.033	<0.033		
Pentachlorophenol	0.17	<0.17	<0.17		
Pyridine	0.033	<0.033	<0.033		
2,4,5-Trichlorophenol	0.033	<0.033	<0.033		
2,4,6-Trichlorophenol	0.033	<0.033	<0.033		
Quantitation Limit Multiplier[c]		1	1		

a Test Methods for Evaluating Solid Waste, SW-846, Third Edition, Revision 0, US EPA, November 1986; extraction by EPA Method 3510 (liquid/liquid). TCLP performed as per 40 CFR, Part 261, Appendix II - Method 1311. These data are presented in accordance with the Federal Register, 57, p.55114, November 24, 1992.

b Test Methods for Evaluating Solid Waste, SW-846, Third Edition, Revision 2, US EPA, Jan 1995; extraction by EPA Method 3510 (liquid/liquid).

c The quantitation limit multiplier indicates the adjustments made to the reporting limits for sample dilutions.

Project ID (Number): SOIIWAD3 POL PHASEII
Project ID (Name): HAFB
DOII WAD3
Holloman, NM
Work Order Number: W7-03-0045
Date Reported: 03-10-97

QA NONCONFORMANCE SUMMARY

Semivolatile Organics in TCLP Leachate
EPA Method 8270B[b]

1.0 Sample Handling

1.1 Sample handling and holding time criteria were not met for zero samples.

2.0 Surrogate Compound Recoveries

2.1 The recovery limits were exceeded for zero surrogate compounds as shown in Table 2.

3.0 Matrix Spike (MS) Accuracy

3.1 The recovery limits were exceeded in the matrix spike for zero compounds as shown in Table 3A and 3.5A.

4.0 Sample Duplicate Precision

4.1 The maximum percent difference (RPD) was exceeded for zero compounds in the duplicate samples as shown in Table 3B and 3.5B.

5.0 Method Blanks

5.1 Zero target compound(s) was/were found in the method blank as shown in Table 4.

Project ID (Number): SOIIWAD3 POL PHASEII
Project ID (Name): HAFB
DOII WAD3
Holloman, NM
Work Order Number: W7-03-0045
Date Reported: 03-10-97

Table 2

SURROGATE RECOVERY SUMMARY

Semivolatile Organics in TCLP Leachate
EPA Method 8270B[b]

GTEL No.	Percent Recovery, %						
	S1 (NBZ)	S2 (FBP)	S3 (TPH)	S4 (PHL)	S5 (2FP)	S6 (TBP)	TOTAL OUT
BT030697BNA	88.4	87.8	95.0	82.9	72.9	78.1	0
LT030697BNA	93.9	86.0	94.0	90.5	76.3	89.4	0
LTD030697BNA	85.7	84.8	93.9	82.7	70.6	88.0	0
W703004501	87.5	83.4	92.4	79.7	70.4	89.3	0
W703004502	82.3	78.0	89.6	63.2	61.1	88.9	0
MS03004502	84.8	83.6	92.6	79.5	69.0	98.7	0
MD03004502	85.7	80.9	88.4	77.2	69.0	90.0	0

Surrogates

			Recovery Limits[a]
S1	NBZ	Nitrobenzene-d5	35-114
S2	FBP	2-Fluorobiphenyl	43-116
S3	TPH	Terphenyl-d14	33-141
S4	PHL	Phenol-d5	10-94
S5	2FP	2-Fluorophenol	21-100
S6	TBP	2,4,6-Tribromophenol	10-123

D Surrogate diluted out.
* Indicates values outside of acceptability limits.
a Acceptability limits are derived from USEPA Contract Laboratory Program (CLP) guidelines.

Project ID (Number): SOIIWAD3 POL PHASEII
Project ID (Name): HAFB
DOII WAD3
Holloman, NM
Work Order Number: W7-03-0045
Date Reported: 03-10-97

Table 3

MATRIX SPIKE (MS) AND MATRIX SPIKE DUPLICATE (MSD) SUMMARY
PERCENT RECOVERY AND RELATIVE PERCENT DIFFERENCE (RPD)
Base/Nuetrals ND Acids in TCLP Extract
EPA Method 8270B

Sample Spiked: BT030697BNA Client ID: EF#1

Analyte	Spike Added, ug/L	Sample Concentration, ug/L	MS Concentration, ug/L	MS Percent Recovery	Acceptability Limits, %[a]
Pyridine	333	<33	222.5	66.7	10-150
1,4-Dichlorogenzene	333	<33	244.5	73.3	36-97
2-Methylphenol	333	<33	274.7	82.4	32-119
3&4-Methylphenol	667	<33	525.0	78.8	32-119
Hexachloroethane	333	<33	224.1	67.2	40-113
Nitrobenzene	333	<33	263.2	79.0	35-180
Hexachlorobutadiene	333	<33	251.6	75.5	24-116
2,4,6-Trichlorophenol	333	<33	265.8	79.8	37-144
2,4,5-Trichlorophenol	333	<33	273.7	82.1	37-144
2,4-Dinitrotoluene	333	<33	238.2	71.5	24-96
Hexachlorobenzene	333	<33	248.5	74.6	10-152
Pentachlorophenol	333	<167	288.7	86.6	10-103

Table 3B

Analyte	Spike Added, ug/L	MSD Concentration, ug/L	MSD Percent Recovery	RPD, %	Acceptability Limits[a]	
					RPD	% Recovery
Pyridine	333	224.6	67.4	1.0	50	10-150
1,4-Dichlorobenzene	333	240.8	72.3	1.5	27	36-97
2-Methylphenol	333	261.4	78.4	5.0	34	32-119
3&4-Methylphenol	667	500.0	75.0	4.9	34	32-119
Hexachloroethane	333	230.6	69.2	2.8	26	40-113
Nitrobenzene	333	247.4	74.2	6.2	39	35-180
Hexachlorobutadiene	333	252.1	75.6	0.2	38	24-116
2,4,6-Trichlorophenol	333	265.7	79.7	0.1	34	37-144
2,4,5-Trichlorophenol	333	280.3	84.1	2.4	34	37-144
2,4-Dinitrotoluene	333	244.6	73.4	2.7	47	24-96
Hexachlorobenzene	333	257.2	77.2	3.4	60	10-152
Pentachlorophenol	333	301.0	90.3	4.2	47	10-103

* Indicates values outside of acceptability limits.
a Acceptability limits are derived from USEPA contract laboratory program (CLP) requirements.
RPD: 0 out of 12 outside of limits.
Spike Recovery: 0 of 24 outside limits.

GTEL Wichita, KS
W7030045.TCL : 4

Project ID (Number): SOIIWAD3 POL PHASEII
Project ID (Name): HAFB
DOII WAD3
Holloman, NM
Work Order Number: W7-03-0045
Date Reported: 03-10-97

Table 3.5

MATRIX SPIKE (MS) AND MATRIX SPIKE DUPLICATE (MSD) SUMMARY
PERCENT RECOVERY AND RELATIVE PERCENT DIFFERENCE (RPD)
Base/Nuetrals ND Acids in TCLP Extract
EPA Method 8270B

Sample Spiked: BT030697BNA Client ID: EF#1

Analyte	Spike Added, ug/L	Sample Concentration, ug/L	MS Concentration, ug/L	MS Percent Recovery	Acceptability Limits, %[a]
Pyridine	333	<33	204.2	61.3	10-150
1,4-Dichlorogenzene	333	<33	243.4	73.0	36-97
2-Methylphenol	333	<33	266.4	79.9	32-119
3&4-Methylphenol	667	<33	506.3	76.0	32-119
Hexachloroethane	333	<33	229.9	69.0	40-113
Nitrobenzene	333	<33	245.5	73.6	35-180
Hexachlorobutadiene	333	<33	252.0	75.6	24-116
2,4,6-Trichlorophenol	333	<33	292.6	87.8	37-144
2,4,5-Trichlorophenol	333	<33	320.5	96.2	37-144
2,4-Dinitrotoluene	333	<33	275.1	82.5	24-96
Hexachlorobenzene	333	<33	260.5	78.2	10-152
Pentachlorophenol	333	<167	328.5	98.5	10-103

Table 3.5B

Analyte	Spike Added, ug/L	MSD Concentration, ug/L	MSD Percent Recovery	RPD, %	Acceptability Limits[a]	
					RPD	% Recovery
Pyridine	333	226.1	67.8	10.2	50	10-150
1,4-Dichlorobenzene	333	230.8	69.2	5.3	27	36-97
2-Methylphenol	333	253.9	76.2	4.8	34	32-119
3&4-Methylphenol	667	488.0	73.2	3.7	34	32-119
Hexachloroethane	333	220.8	66.3	4.0	26	40-113
Nitrobenzene	333	240.1	72.0	2.2	39	35-180
Hexachlorobutadiene	333	251.1	75.3	0.3	38	24-116
2,4,6-Trichlorophenol	333	269.7	80.9	8.2	34	37-144
2,4,5-Trichlorophenol	333	296.1	88.8	7.9	34	37-144
2,4-Dinitrotoluene	333	260.6	78.2	5.4	47	24-96
Hexachlorobenzene	333	230.9	69.3	12.1	60	10-152
Pentachlorophenol	333	305.6	91.7	7.2	47	10-103

* Indicates values outside of acceptability limits.
a Acceptability limits are derived from USEPA contract laboratory program (CLP) requirements.
RPD: 0 out of 12 outside of limits.
Spike Recovery: 0 of 24 outside limits.

Project ID (Number): SOIIWAD3 POL PHASEII
Project ID (Name): HAFB
DOII WAD3
Holloman, NM
Work Order Number: W7-03-0045
Date Reported: 03-10-97

Table 4

METHOD BLANK RESULTS

Semivolatile Organics in TCLP Leachate[a]
EPA Method 8270B[b]

	GTEL File Number	BT030697A
	Date Leached	03-05-97
	Date Extracted	03-06-97
	Extraction fluid	#1
	Date Analyzed	03-08-97
Analyte	Reporting Limit, mg/L	Concentration, mg/L
o-Cresol	0.033	<0.033
m-Cresol + p-Cresol	0.033	<0.033
1,4-Dichlorobenzene	0.033	<0.033
2,4-Dinitrotoluene	0.033	<0.033
Hexachloro-1,3-butadiene	0.033	<0.033
Hexachlorobenzene	0.033	<0.033
Hexachloroethane	0.033	<0.033
Nitrobenzene	0.033	<0.033
Pentachlorophenol	0.17	<0.17
Pyridine	0.033	<0.033
2,4,5-Trichlorophenol	0.033	<0.033
2,4,6-Trichlorophenol	0.33	<0.033
Reporting Limit Multiplier[c]	1	1

a Test Methods for Evaluating solid Waste, SW-846, Third Edition, Revision 9, US EPA, November 1986; extraction by EPA Method 3510 (liquid/liquid). TCLP performed as per 40 CFT, Part 261, Appendix II - Method 1311. These data are presented in accordance with the Federal Register, 57, p.55114, November 24, 1992.

b Test Methods for Evaluating Solid Waste, SW-846, Third Edition, Revision 2, US EPA, Jan 1995; extraction by EPA Method 3510 (liquid/liquid)Test Methods for Evaluating solid Waste, SW-846, Third Edition, Revision 9, US EPA, November 1986; extraction by EPA Method 3510 (liquid/liquid).

c The quantitation limit multiplier indicates the adjustments made to the reporting limits for sample dilutions.

Project ID (Number): SOIIWAD3 POL PHASEII
Project ID (Name): HAFB
DOII WAD3
Holloman, NM
Work Order Number: W7-03-0045
Date Reported: 03-10-97

ANALYTICAL RESULTS

Volatile Organics in TCLP Leachate[a]
EPA Method 8240 Modified

GTEL Sample Number		01	02		
Client Identification		SWMU28-SP	SWMU23-SP		
Date Sampled		03-03-97	03-03-97		
Date Leached		03-06-97	03-06-97		
Date Analyzed		03-07-97	03-07-97		
Analyte	Quantitation Limit, mg/L	Concentration, mg/L			
Benzene	0.050	<0.050	<0.050		
Carbon tetrachloride	0.050	<0.050	<0.050		
Chlorobenzene	0.050	<0.050	<0.050		
Chloroform	0.050	<0.050	<0.050		
1,2-Dichloroethane	0.050	<0.050	<0.050		
1,1-Dichloroethylene	0.050	<0.050	<0.050		
Methyl ethyl ketone	0.20	<0.20	<0.20		
Tetrachloroethylene	0.050	<0.050	<0.050		
Trichloroethylene	0.050	<0.050	<0.050		
Vinyl chloride	0.10	<0.10	<0.10		
Quantitation Limit Multiplier[b]		1	1		

a Test Methods for Evaluating Solid Waste, SW-846, Third Edition, Revision 0, US EPA, November 1986. This method is modified for megabore column use. TCLP is performed as per 40 CFR, Part 261, Appendix II-Method 1311. These data are presented in accordance with the Federal Register 57, p. 55114, November 24, 1992.

b The quantitation limit multiplier indicates the adjustments made to the data and detection limits for sample dilutions.

Project ID (Number): SOIIWAD3 POL PHASEII
Project ID (Name): HAFB
DOII WAD3
Holloman, NM
Work Order Number: W7-03-0045
Date Reported: 03-10-97

QA NONCONFORMANCE SUMMARY

Volatile Organics in TCLP Leachate
EPA Method 8240 Modified

1.0 Sample Handling

1.1 Sample handling and holding time criteria were not met for zero samples.

2.0 Surrogate Compound Recoveries

2.1 The recovery limits were exceeded for surrogate compounds in zero samples as shown in Table 2.

3.0 Matrix Spike (MS) Accuracy

3.1 The recovery limits were exceeded in the matrix spike for zero compounds as shown in Table 3.

4.0 Sample Duplicate Precision

4.1 The maximum percent difference (RPD) was exceeded for zero compounds in the duplicate samples as shown in Table 3.

5.0 Method Blanks

5.1 Zero target compound(s) was/were found in the method blank as shown in Table 4.

Project ID (Number): SOIIWAD3 POL PHASEII
Project ID (Name): HAFB
DOII WAD3
Holloman, NM
Work Order Number: W7-03-0045
Date Reported: 03-10-97

Table 2

SURROGATE RECOVERY SUMMARY

Volatile Organics in TCLP Leachate
EPA Method 8240 Modified

GTEL No.	Percent Recovery, %			
	S1 (TOL)	S2 (BFB)	S3 (DCE)	TOTAL OUT
TCLP030697F1	97.9	98.7	93.2	0
W703004501	101	100	89.6	0
W703004502	99.9	100	93.3	0
MS03004502	103	89.7	101	0
MD03004502	103	89.8	90.7	0
BMS030697	99.9	89.4	101	0
BMD030697	103	87.8	89.9	0

	Surrogates		Amount Spiked, ug/L	Recovery Limits[a]
S1	TOL	Toluene-d8	50	88-110
S2	BFB	Bromofluorobenzene	50	86-115
S3	DCE	1,2-Dichloroethane-d4	50	76-114

* Indicates values outside of acceptability limits.
a Acceptability limits are derived from USEPA Contract Laboratory Program (CLP) guidelines.
D Diluted out. Percent Recovery is not calculated when surrogate compound(s) are diluted out.

Project ID (Number): SOIIWAD3 POL PHASEII
Project ID (Name): HAFB
DOII WAD3
Holloman, NM
Work Order Number: W7-03-0045
Date Reported: 03-10-97

Table 3

MATRIX SPIKE (MS) AND MATRIX SPIKE DUPLICATE (MSD) SUMMARY
PERCENT RECOVERY AND RELATIVE PERCENT DIFFERENCE (RPD)
Volatile Organics in TCLP Extract
Modified EPA Method 8240

Sample Spiked: W703004502 Client ID: SWMU23-SP

Analyte	Spike Added, ug/L	Sample Concentration, ug/L	MS Concentration, ug/L	MS Percent Recovery	Acceptability Limits, %[a]
Vinyl Chloride	100.0	<10	87.6	87.6	10-251[1]
1,1-Dichloroethene	100.0	<5	101.6	101.6	61-145[5]
Chloroform	100.0	<5	103.8	103.6	51-138[1]
1,2-Dichloroethane	100.0	<5	102.4	102.4	49-155[1]
2-Butanone	100.0	<20	88.3	88.3	28-180[3]
Carbon Tetrachloride	100.0	<5	102.8	102.8	70-140[1]
Trichloroethene	100.0	<5	102.4	102.4	71-120[5]
Benzene	100.0	<5	114.0	114.0	76-127[1]
Tetrachloroethene	100.0	<5	89.8	89.8	64-148[1]
Chlorobenzene	100.0	<5	102.7	102.7	75-130[5]

Analyte	Spike Added, ug/L	MSD Concentration, ug/L	MSD Percent Recovery	RPD, %	Acceptability Limits	
					RPD	% Recovery
Vinyl Chloride	100.0	96.2	96.2	9.3	65.0[3]	10-251[1]
1,1-Dichloroethene	100.0	105.0	105.0	3.3	14[5]	61-145[5]
Chloroform	100.0	103.6	104.6	0.8	18.2[3]	51-138[1]
1,2-Dichloroethane	100.0	103.5	103.5	1.0	20.6[3]	49-155[1]
2-Butanone	100.0	88.3	85.9	2.8	25.0[3]	20-180[3]
Carbon Tetrachloride	100.0	103.6	103.6	0.8	11.3[3]	70-140[1]
Trichloroethene	100.0	101.2	101.2	1.2	14[5]	71-120[5]
Benzene	100.0	112.4	112.4	1.4	11[5]	76-127[1]
Tetrachloroethene	100.0	91.4	91.3	1.7	15.6[3]	64-148[1]
Chlorobenzene	100.0	104.2	104.1	1.4	13[5]	75-130[5]

* Indicates values outside of acceptability limits.
1 Accuracy limits as published in the EPA methods. (lowest acceptable limit has been tightened to 10% recovery based on laboratory practice)
3 Limits based on laboratory practice i.e. provisional limits.
5 Acceptability limits are derived from USEPA Contract Laboratory Program (CLP) requirements.
RPD: 0 of 10 outside limits.
Spike Recovery: 0 of 20 outside limits.

Project ID (Number): SOIIWAD3 POL PHASEII
Project ID (Name): HAFB
DOII WAD3
Holloman, NM
Work Order Number: W7-03-0045
Date Reported: 03-10-97

Table 3

LABORATORY CONTROL SAMPLE (LCS) AND LABORATORY CONTROL DUPLICATE RESULTS
PERCENT RECOVERY AND RELATIVE PERCENT DIFFERENCE (RPD)
Volatile Organics in TCLP Extract
Modified EPA Method 8240

Sample Spiked: TCLP030697

Analyte	Spike Added, ug/L	Sample Concentration, ug/L	MS Concentration, ug/L	MS Percent Recovery	Acceptability Limits, %[a]
Vinyl Chloride	100.0	<10	90.6	90.6	10-251[1]
1,1-Dichloroethene	100.0	<5	98.1	98.1	61-145[5]
Chloroform	100.0	<5	108.1	108.1	51-138[1]
1,2-Dichloroethane	100.0	<5	107.9	107.9	49-155[1]
2-Butanone	100.0	<20	77.2	77.2	28-180[3]
Carbon Tetrachloride	100.0	<5	105.4	105.4	70-140[1]
Trichloroethene	100.0	<5	105.4	105.4	71-120[5]
Benzene	100.0	<5	116.9	116.9	76-127[1]
Tetrachloroethene	100.0	<5	95.4	95.4	64-148[1]
Chlorobenzene	100.0	<5	109.5	109.5	75-130[5]

* Indicates values outside of acceptability limits.
1 Accuracy limits as published in the EPA methods. (lowest acceptable limit has been tightened to 10% recovery based on laboratory practice)
3 Limits based on laboratory practice i.e. provisional limits.
5 Acceptability limits are derived from USEPA Contract Laboratory Program (CLP) requirements.
Spike Recovery: _0_ of _10_ outside limits.

Project ID (Number): SOIIWAD3 POL PHASEII
Project ID (Name): HAFB
DOII WAD3
Holloman, NM
Work Order Number: W7-03-0045
Date Reported: 03-10-97

Table 4

METHOD BLANK RESULTS

Volatile Organics in TCLP Leachate[a]
EPA Method 8240 Modified

	File ID	TCLP030697F1
	Date Leached	03-06-97
	Date Analyzed	03-07-97
Analyte	Quantitation Limit, mg/L	Concentration, mg/L
Benzene	0.050	<0.050
Carbon tetrachloride	0.050	<0.050
Chlorobenzene	0.050	<0.050
Chloroform	0.050	<0.050
1,2-Dichloroethane	0.050	<0.050
1,1-Dichloroethylene	0.050	<0.050
Methyl ethyl ketone	0.20	<0.050
Tetrachloroethylene	0.050	<0.050
Trichloroethylene	0.050	<0.050
Vinyl chloride	0.10	<0.10

a Test Methods for Evaluating Solid Waste, SW-846, Third Edition, Revision 0, US EPA, November 1986. This method is modified for megabore column use. TCLP is performed as per 40 CFR, Part 261, Appendix II-Method 1311. These data are presented in accordance with the Federal Register 57, p. 55114, November 24, 1992.

ANALYTICAL RESULTS
Volatile Organics

NEI/GTEL Client ID: FWH03FWH03
in Number: W7030045
Project ID (number): DOIIWAD3 POL PHASEII
Project ID (name): HAFB/DOII WAD3/HOLLOMAN/NM

Method: EPA 8021A
Matrix: Solids

NEI/GTEL Sample Number	W7030045-01	W7030045-02	--	--
Client ID	SWMU28-SP	SWMU23-SP	--	--
Date Sampled	03/03/97	03/03/97	--	--
Date Analyzed	03/06/97	03/06/97	--	--
Dilution Factor	1.00	1.00	--	--

Analyte	Reporting Limit	Units	Concentration:Dry Weight			
Benzene	0.05	mg/kg	< 0.05	< 0.05	--	--
Toluene	0.10	mg/kg	< 0.10	< 0.10	--	--
Ethylbenzene	0.10	mg/kg	< 0.10	< 0.10	--	--
Xylenes (total)	0.20	mg/kg	< 0.20	< 0.20	--	--
Percent Solids	--	%	72.9	87.2	--	--

Notes:

Dilution Factor:

Dilution factor indicates the adjustments made for sample dilution.

EPA 8021A:

EPA 8021A: "Test Methods for Evaluating Solid Waste, Physical and Chemical Methods", SW-846, Third Edition, Revision 1, US EPA September 1994.

NEI/GTEL Client ID: FWH03FWH03 QUALITY CONTROL RESULTS
Login Number: W7030045 Volatile Organics
Project ID (number): DOIIWAD3 POL PHASEII Method: EPA 8
Project ID (name): HAFB/DOII WAD3/HOLLOMAN/NM Matrix: Solids

Surrogate Results

QC Batch No.	Reference	Sample ID	TFT	BFB
Method: EPA 8021A		Acceptability Limits:	70-130%	70-130%
030697GC17-1	CV0306972017	Calibration Verifi	105.	107.
030697GC17-10	LSD03069717	LCS Soil Duplicate	111.	119.
030697GC17-11	MS03002903	Matrix Spike	102.	109.
030697GC17-12	MD03002903	Matrix Spike Dupli	110.	119.
030697GC17-8	BS03069717	Method Blank Soil	100.	104.
030697GC17-9	LS03069717	Laboratory control	114.	120.
--	03004501	SWMU28-SP	88.4	89.8
--	03004502	SWMU23-SP	92.8	88.1

Notes:
*: Indicates values outside of acceptability limits. See Nonconformance Summary.

NEI/GTEL Client ID: FWH03FWH03 QUALITY CONTROL RESULTS
Login Number: W7030045 Volatile Organics
Project ID (number): DOIIWAD3 POL PHASEII Method: EPA 8021A
Project ID (name): HAFB/DOII WAD3/HOLLOMAN/NM Matrix: Solids

Method Blank Results

QC Batch No: 030697GC17-8
Date Analyzed: 06-MAR-97

Analyte	Method:EPA 8021A	Concentration: mg/kg
Benzene	< 0.0500	
Toluene	< 0.100	
Ethylbenzene	< 0.100	
Xylenes (Total)	< 0.200	

Notes:

NEI/GTEL Client ID: FWH03FWH03
Login Number: W7030045
Project ID (number): DOIIWAD3 POL PHASEII
Project ID (name): HAFB/DOII WAD3/HOLLOMAN/NM

QUALITY CONTROL RESULTS

Volatile Organics
Method: EPA 8
Matrix: Solids

Calibration Verification Sample Summary

Analyte		Spike Amount	Check Sample Concentration	QC Percent Recovery	Acceptability Limits Recovery
EPA 8021A	Units:ug/L	QC Batch:030697GC17-1			
Benzene		20.0	22.3	112.	85-115%
Toluene		20.0	22.6	113.	85-115%
Ethylbenzene		20.0	22.9	115.	85-115%
Xylenes (Total)		60.0	67.3	112.	85-115%

Notes:

NEI/GTEL Client ID: FWH03FWH03 QUALITY CONTROL RESULTS
Login Number: W7030045 Volatile Organics
Project ID (number): DOIIWAD3 POL PHASEII Method: EPA 8021A
Project ID (name): HAFB/DOII WAD3/HOLLOMAN/NM Matrix: Solids

Matrix Spike(MS) and Matrix Spike Duplicate(MSD) Results

GTEL Sample ID:W7030029-03 MS ID:MS03002903 MSD ID:MD03002903
Analysis Date: 07-MAR-97 07-MAR-97 07-MAR-97

Units: mg/kg	Sample	Spikes Added		MS	MS	MSD	MSD		Acceptability Limits	
Analyte	Conc.	MS	MSD	Conc.	% Rec.	Conc.	% Rec.	RPD	RPD	%Rec.
Benzene	< 0.05(0.000)	2.50	2.82	2.00	80.0	2.55	90.4	12.2	28.3	39-150
Toluene	< 0.10(0.000)	2.50	2.82	2.00	80.0	2.58	91.5	13.4	30	46-148
Ethylbenzene	< 0.10(0.000)	2.50	2.82	1.88	75.2	2.49	88.3	16.0	30	32-160
Xylenes (Total)	< 0.20(0.000)	7.49	8.45	5.43	72.5	8.20	97.0	28.9	30	41-155

Notes:
Values in parentheses in the sample concentration column are used for % recovery calculations.

NEI/GTEL Client ID: FWH03FWH03 QUALITY CONTROL RESULTS
Login Number: W7030045 Volatile Organics
Project ID (number): DOIIWAD3 POL PHASEII Method: EPA 8
Project ID (name): HAFB/DOII WAD3/HOLLOMAN/NM Matrix: So

Laboratory Control Sample (LCS) and Laboratory Control Duplicate Results

Analyte	Spike Amount	LCS Concentration	LCS Recovery, %	LCS Duplicate Concentration	LCS Duplicate Recovery, %	RPD, %	Acceptability Limits RPD, %	Acceptability Limits Recovery, %
EPA 8021A Units: ug/L		QC Batch:030697GC17-10						
Benzene	2.50	2.37	94.8	2.46	98.4	3.73	28.3	39-150%
Toluene	2.50	2.37	94.8	2.44	97.6	2.91	30	46-148%
Ethylbenzene	2.50	2.33	93.2	2.45	98.0	5.02	30	32-160%
Xylenes (Total)	7.50	7.31	97.5	7.43	99.1	1.63	30	41-155%

Notes:

NEI/GTEL Client ID: FWH03FWH03 QUALITY CONTROL RESULTS
Login Number: W7030045 Volatile Organics
oject ID (number): DOIIWAD3 POL PHASEII Method: EPA 8021A
rroject ID (name): HAFB/DOII WAD3/HOLLOMAN/NM Matrix: Solids

Conformance/Non-Conformance Summary

(X = Requirements Met * = See Comments -- = Not Required NA = Not Applicable)

Conformance Item	Volatile Organics	Semi-Volatile Organics	Inorganics (MT, WC)
GC/MS Tune	--	--	NA
Initial Calibration	--	--	--
Continuing Calibration	X	--	--
Surrogate Recovery	X	--	NA
Holding Time	X	--	--
Method Accuracy	X	--	--
Method Precision	X	--	--
Blank Contamination	X	--	--

Comments:

ANALYTICAL RESULTS
Total Petroleum Hydrocarbons

NEI/GTEL Client ID: FWH03FWH03
Login Number: W7030045
Project ID (number): DOIIWAD3 POL PHASEII
Project ID (name): HAFB/DOII WAD3/HOLLOMAN/NM

Method: EPA 418.1
Matrix: Solids

NEI/GTEL Sample Number	W7030045-01	W7030045-02	--	--
Client ID	SWMU28-SP	SWMU23-SP	--	--
Date Sampled	03/03/97	03/03/97	--	--
Date Prepared	03/06/97	03/06/97		
Date Analyzed	03/07/97	03/07/97	--	--
Dilution Factor	1.00	1.00	--	--

Analyte	Reporting Limit	Units	Concentration:Dry Weight			
Total Petroleum Hydrocarbons	20.	mg/kg	1200	510	--	--
Percent Solids	--	%	72.9	87.2	--	--

Notes:

Dilution Factor:

Dilution factor indicates the adjustments made for sample dilution.

EPA 418.1:

Extraction is modified for soils by using EPA Method 9071 (soxhlet extraction). "Methods for Chemical Analysis of Water and Wastes", EPA 600/4-79-020, USEPA EMSL, Cincinnati, OH, Revised, March 1983.

NEI/GTEL Client ID: FWH03FWH03 QUALITY CONTROL RESULTS
Login Number: W7030045 Total Petroleum Hydrocarbons
Project ID (number): DOIIWAD3 POL PHASEII Method: EPA 418.1
Project ID (name): HAFB/DOII WAD3/HOLLOMAN/NM Matrix: Solids

Method Blank Results

QC Batch No: 030697IRSX-1
Date Analyzed: 07-MAR-97

Analyte	Method:EPA 418.1	Concentration: mg/kg
Total Petroleum Hydrocarbons	< 20.0	

Notes:

NEI/GTEL Client ID: FWH03FWH03 QUALITY CONTROL RESULTS
Login Number: W7030045 Total Petroleum Hydrocarbons
Project ID (number): DOIIWAD3 POL PHASEII Method: EPA 4
Project ID (name): HAFB/DOII WAD3/HOLLOMAN/NM Matrix: Solids

Calibration Verification Sample Summary

Analyte	Spike Amount	Check Sample Concentration	QC Percent Recovery	Acceptability Limits Recovery
EPA 418.1 Units:mg/L	QC Batch:030697IRSX-6			
Total Petroleum Hydrocarbons	5.00	5.31	106.	90-110%

Notes:

NEI/GTEL Client ID: FWH03FWH03 QUALITY CONTROL RESULTS
Chain Number: W7030045 Total Petroleum Hydrocarbons
Project ID (number): DOIIWAD3 POL PHASEII Method: EPA 418.1
Project ID (name): HAFB/DOII WAD3/HOLLOMAN/NM Matrix: Solids

Laboratory Control Sample Summary

Analyte	Spike Amount	Check Sample Concentration	QC Percent Recovery	Acceptability Limits Recovery
EPA 418.1 Units:mg/kg	QC Batch:030697IRSX-2			
Total Petroleum Hydrocarbons	150.	189.	126.	42-141%

Notes:
The accuracy limits are for a fuel oil #2 spike when the calibration is based on the standard reference oil.

NEI/GTEL Client ID: FWH03FWH03 QUALITY CONTROL RESULTS
Login Number: W7030045 Total Petroleum Hydrocarbons
Project ID (number): DOIIWAD3 POL PHASEII Method: EPA 4
Project ID (name): HAFB/DOII WAD3/HOLLOMAN/NM Matrix: Solids

Matrix Spike(MS) and Matrix Spike Duplicate(MSD) Results

GTEL Sample ID:W7030045-01 MS ID:MS03004501 MSD ID:MD03004501
Analysis Date: 07-MAR-97 07-MAR-97 07-MAR-97

Units: mg/kg	Sample	Spikes Added		MS	MS	MSD	MSD		Acceptability Limits	
Analyte	Conc.	MS	MSD	Conc.	% Rec.	Conc.	% Rec.	RPD	RPD	%Rec.
Total Petroleum Hydrocarbons	890 (888.)	150.	150.	874.	-9.33*	868.	-13.3*	35.1	50	42-141

Notes:
Values in parentheses in the sample concentration column are used for % recovery calculations.
The spike recovery data may not be representative of the accuracy of the method or demonstrate true matrix interferences due to the ratio of background to spike amount.

The accuracy limits are for a fuel oil #2 spike when the calibration is based on the standard reference oil.
030697IRSX-4: Sample spike recovery is outside of acceptability limits due to high sample concentration. Blank spike recovery is within acceptability limits, therefore demonstrating method accuracy.

NEI/GTEL Client ID: FWH03FWH03 QUALITY CONTROL RESULTS
Login Number: W7030045 Total Petroleum Hydrocarbons
oject ID (number): DOIIWAD3 POL PHASEII Method: EPA 418.1
Project ID (name): HAFB/DOII WAD3/HOLLOMAN/NM Matrix: Solids

Conformance/Non-Conformance Summary

(X = Requirements Met * = See Comments -- = Not Required NA = Not Applicable)

Conformance Item	Volatile Organics	Semi-Volatile Organics	Inorganics (MT, WC)
GC/MS Tune	--	--	NA
Initial Calibration	--	--	--
Continuing Calibration	--	X	--
Surrogate Recovery	--	--	NA
Holding Time	--	X	--
Method Accuracy	--	*	--
Method Precision	--	X	--
Blank Contamination	--	X	--

Comments:
The accuracy limits are for a fuel oil #2 spike when the calibration is based on the standard reference oil.

SWMU 23

NEI/GTEL
ENVIRONMENTAL LABORATORIES, INC.

Midwest Region
4211 May Avenue
Wichita, KS 67209
(316) 945-2624
(800) 633-7936
(316) 945-0506 (FAX)

March 11, 1997

Dan Holmquist
Foster Wheeler Environmental Corporation
241 Arkansas St. /Behind Rv Storage
Holloman A F B, NM 88330

RE:	NEI/GTEL Client ID:	FWH03FWH03
	Login Number:	W7030045
	Project ID (number):	DOIIWAD3 POL PHASEII
	Project ID (name):	HAFB/DOII WAD3/HOLLOMAN/NM

Dear Dan Holmquist:

Enclosed please find the analytical results for the samples received by NEI/GTEL Environmental Laboratories, Inc. on 03/05/97 under Chain-of-Custody Number(s) 47745.

A formal Quality Assurance/Quality Control (QA/QC) program is maintained by NEI/GTEL, which is designed to meet or exceed the EPA requirements. Analytical work for this project met QA/QC criteria unless otherwise stated in the footnotes. This report is to be reproduced only in full.

NEI/GTEL is certified by the U.S. Army Corp of Engineers Laboratory Validation, expiration date March 18, 1997.

If you have any questions regarding this analysis, or if we can be of further assistance, please call our Customer Service Representative.

Sincerely,
NEI/GTEL Environmental Laboratories, Inc.

RECEIVED MAR 17 1997

Terry R. Loucks
Laboratory Director

ANALYTICAL RESULTS
Paint Filter

NEI/GTEL Client ID: FWH03FWH03
in Number: W7030045
Project ID (number): DOIIWAD3 POL PHASEII
Project ID (name): HAFB/DOII WAD3/HOLLOMAN/NM

Method: EPA 9095
Matrix: Solids

NEI/GTEL Sample Number	W7030045-01	W7030045-02	--	--
Client ID	SWMU28-SP	SWMU23-SP	--	--
Date Sampled	03/03/97	03/03/97	--	--
Date Analyzed	03/07/97	03/07/97	--	--
Dilution Factor	1.00	1.00	--	--

Analyte	Reporting Limit	Units	Concentration:Wet Weight			
Paint Filter Liquids Test	--	std	Not Present	Not Present	--	--
Percent Solids	--	%	72.9	87.2	--	--

Notes:

Dilution Factor:

Dilution factor indicates the adjustments made for sample dilution.

EPA 9095:

"Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW-846, Third Edition including Update 2.

ANALYTICAL RESULTS
Results For Multiple Methods

NEI/GTEL Client ID: FWH03FWH03
Login Number: W7030045
Project ID (number): DOIIWAD3 POL PHASEII
Project ID (name): HAFB/DOII WAD3/HOLLOMAN/NM

Method: See Below
Matrix: Solids

	NEI/GTEL Sample Number	W7030045-01	W7030045-02	--	--
	Client ID	SWMU28-SP	SWMU23-SP	--	--
	Date Sampled	03/03/97	03/03/97	--	--
ASTM D93	Date Analyzed	03/07/97	03/07/97	--	--
ASTM D93	Dilution Factor	1.00	1.00	--	--
EPA 9010A	Date Prepared	03/06/97	03/06/97	--	--
EPA 9010A	Date Analyzed	03/07/97	03/07/97	--	--
EPA 9010A	Dilution Factor	1.00	1.00	--	--
EPA 9045B	Date Analyzed	03/07/97	03/07/97	--	--
EPA 9045B	Dilution Factor	1.00	1.00	--	--
EPA SW 846, CH. 7	Date Prepared	03/06/97	03/06/97	--	--
EPA SW 846, CH. 7	Date Analyzed	03/06/97	03/06/97	--	--
EPA SW 846, CH. 7	Dilution Factor	1.00	1.00	--	--

Analyte		Reporting Limit	Units	Concentration:Dry Weight			
Inorganics (MT, WC)							
Total Cyanide	EPA 9010A	2.0	mg/kg	< 2.0	< 2.0	--	--
Flashpoint (Closed Cup)	ASTM D93	70.0	deg F	> 200.	> 200.	--	--
pH	EPA 9045B	0.	pH	7.0	7.2	--	--
Reactive Sulfide	EPA SW 846, CH.	25.	mg/kg	< 25.	< 25.	--	--
Percent Solids	--		%	72.9	87.2	--	--

Notes:

Dilution Factor:

Dilution factor indicates the adjustments made for sample dilution.

ASTM D93:

Annual Book of ASTM Standards, 1983 Revision.

EPA 9010A, EPA 9045B, EPA SW 846, CH. 7:

"Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW-846, Third Edition including Update 2.

Project ID (Number): DOIIWD3 POL PHASEII
Project ID (Name): HAFB
DOII WAD3
Holloman, NM
Work Order Number: W7-03-0045
Date Reported: 03-10-97

QA NONCONFORMANCE SUMMARY

Inorganics

1.0 Sample Handling

1.1 Sample handling and holding time criteria were not met for zero samples.

2.0 Initial and Continuing Calibration Verification

2.1 The criteria for the calibration verification QC Check Sample was exceeded for zero samples as shown in Table 2.

3.0 Method Blanks

3.1 Zero target analytes were found in the method blank as shown in Table 3.

4.0 Matrix Spike (MS) Accuracy

4.1 The recovery limits were exceeded in the matrix spike for zero analyte as shown in Table 4.

5.0 Matrix Spike Duplicate Precision

5.1 The maximum percent difference (RPD) was exceeded for zero analytes in the duplicate samples as shown in Table 5.

6.0 Laboratory Control Sample

6.1 The recovery limits were not met for zero analytes in the Laboratory Control Sample as shown in Table 6.

Project ID (Number): DOIIWD3 POL PHASEII
Project ID (Name): HAFB
DOII WAD3
Holloman, NM
Work Order Number: W7-03-0045
Date Reported: 03-10-97

Table 2A

INITIAL CALIBRATION VERIFICATION QC CHECK SAMPLE REPORT

Inorganics

Analyte	Expected Result	Observed Result	Units	Recovery, %	Acceptability Limits, %[a]
Total Cyanide	0.192	0.204	mg/L	106	90-110

a Acceptability limits established by laboratory practice.

Table 3

BLANK REPORT

Inorganics

Analyte	Initial Calibration Blank	Units	Preparation Blank	Units
Total Cyanide	<0.02	mg/L	<2.0	mg/Kg
Reactivity Sulfate	<25	mg/Kg	<25	mg/Kg

NA Not Applicable

Project ID (Number): DOIIWD3 POL PHASEII
Project ID (Name): HAFB
DOII WAD3
Holloman, NM
Work Order Number: W7-03-0045
Date Reported: 03-10-97

Table 4

MATRIX SPIKE (MS) RECOVERY SUMMARY

Inorganics

Sample Spiked: Total Cyanide W7030045-01
Sample Spiked: Reactivity Sulfate W7030045-01

Analyte	MS Sample Result	Sample Result	Amount Added	Units	MS, % Recovery	Acceptability Limits, %[a]
Total Cyanide	16.0	<2.0	18.2	mg/Kg	87.8	80-120
Reactivity Sulfate	329	<25	478	mg/Kg	68.8	60-140

a Acceptability limits established by laboratory practice.

Table 5

MATRIX SPIKE DUPLICATE SAMPLE RESULTS
AND RELATIVE PERCENT DIFFERENCE (RPD) SUMMARY

Inorganics

Analyte	Matrix Spike Result	Matrix Spike Duplicate Result	Units	RPD, %	Maximum RPD, %[a]
Total Cyanide	16.0	16.4	mg/Kg	2.93	20
Reactivity Sulfate	329	365	mg/Kg	10.4	20

a Acceptability limits established by laboratory practice.

Table 6

LABORATORY CONTROL SAMPLE RESULTS

Inorganics

Analyte	Expected Result	Observed Result	Units	Recovery, %	Acceptability Limits, %[a]
Total Cyanide	20.4	17.0	mg/L	83.5	80-120
Reactivity Sulfate	484	344	mg/L	71.7	60-140

a Acceptability limits established by laboratory practice.

ANALYTICAL RESULTS
Results For Multiple Methods

NEI/GTEL Client ID: FWH03FWH03
Login Number: W7030045
Project ID (number): DOIIWAD3 POL PHASEII
Project ID (name): HAFB/DOII WAD3/HOLLOMAN/NM

Method: See Below
Matrix: Solids

	NEI/GTEL Sample Number	W7030045-01	W7030045-02	--	--
	Client ID	SWMU28-SP	SWMU23-SP	--	--
	Date Sampled	03/03/97	03/03/97	--	--
EPA 6010A	Date Prepared	03/05/97	03/05/97	--	--
EPA 6010A	Date Analyzed	03/05/97	03/05/97	--	--
EPA 6010A	Dilution Factor	1.00	1.00	--	--
EPA 7421	Date Prepared	03/06/97	03/06/97	--	--
EPA 7421	Date Analyzed	03/07/97	03/07/97	--	--
EPA 7421	Dilution Factor	0.560	0.560	--	--
EPA 7471A	Date Prepared	03/05/97	03/05/97	--	--
EPA 7471A	Date Analyzed	03/06/97	03/06/97	--	--
EPA 7471A	Dilution Factor	1.00	1.00	--	--

Analyte		Reporting Limit	Units	Concentration:Dry Weight			
Inorganics (MT, WC)							
Arsenic	EPA 6010A	40.	mg/kg	< 40.	< 40.	--	--
Barium	EPA 6010A	20.	mg/kg	21.	30.	--	--
Cadmium	EPA 6010A	2.0	mg/kg	< 2.0	< 2.0	--	--
Chromium	EPA 6010A	3.0	mg/kg	< 3.0	4.3	--	--
Lead	EPA 7421	0.40	mg/kg	1.3	1.2	--	--
Mercury	EPA 7471A	0.25	mg/kg	< 0.25	< 0.25	--	--
Selenium	EPA 6010A	20.	mg/kg	< 20.	< 20.	--	--
Silver	EPA 6010A	2.0	mg/kg	< 2.0	< 2.0	--	--
Percent Solids		--	%	72.9	87.2	--	--

Notes:

Dilution Factor:

Dilution factor indicates the adjustments made for sample dilution.

EPA 6010A, EPA 7421:

Digestion by EPA Method 3050A.

EPA 6010A, EPA 7421, EPA 7471A:

"Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW-846, Third Edition including Update 2.

W7030045-01:

Recovery limits were exceeded for silver in the matrix spike due to precipitation of the spike in the presence of concentrated acid. Recovery limits were exceeded for lead in the matrix spike due to heterogeneity. The maximum relative percent difference was exceeded for silver between the matrix spike and matrix spike duplicate due to precipitation of the spike in the presence of concentrated acid. The maximum relative percent difference was exceeded for lead between the matrix spike and matrix spike duplicate due to heterogeneity.

Project Number: DOIIWAD3 POL PHASEII
Project ID Name: HAFB
DOII WAD3
Holloman, NM
Work Order Number: W7-03-0045
Date Reported: 03-10-97

QA NONCONFORMANCE SUMMARY

Metals in Soil

1.0 Sample Handling

1.1 Sample handling and holding time criteria were not met for zero samples.

2.0 Initial Calibration Verification

2.1 The validity for the calibration verification was exceeded for zero samples as shown in Table 2.

3.0 Method Blanks

3.1 Zero target elements were found in the method blank as shown in Table 3.

4.0 Matrix Spike (MS) Accuracy

4.1 The recovery limits were exceeded in the matrix spike sample for two elements as shown in Table 4A.

4.2 Recovery limits were exceeded for silver in the matrix spike sample due to precipitation of the spike in the presence of concentrated acid.

4.3 Recovery limits were exceeded for lead in the matrix spike sample due to heterogeneity.

4.4 The LCS and LCS duplicate samples for the elements listed above were in control as shown in Table 5.

5.0 Sample Duplicate Precision

5.1 The maximum percent difference (RPD) was exceeded for two elements in the matrix spike and matrix spike duplicate samples as shown in Table 4A and 4B.

5.2 The maximum relative percent difference was exceeded for silver between the matrix spike and matrix spike duplicate samples due to precipitation of the spike in the presence of concentrated acid.

5.3 The maximum relative percent difference was exceeded for lead between the matrix spike and matrix spike duplicate samples due to heterogeneity.

6.0 Laboratory Control Sample

6.1 The recovery limits were not met for zero elements for the laboratory control samples as shown in Table 5.

Project Number: DOIIWAD3 POL PHASEII
Project ID Name: HAFB
DOII WAD3
Holloman, NM
Work Order Number: W7-03-0045
Date Reported: 03-10-97

Table 2

INITIAL CALIBRATION VERIFICATION QC CHECK SAMPLE REPORT

Metals in Soil

Analyte	Expected Result, mg/L	Observed Result, mg/L	Recovery, %	Acceptability Limits, %[a]
Arsenic	1.00	1.02	102	90-110
Barium	1.00	1.04	104	90-110
Cadmium	1.00	1.04	104	90-110
Chromium	1.00	1.04	104	90-110
Lead	0.0200	0.0210	105	90-110
Mercury	0.0040	0.00390	97.5	90-110
Selenium	1.00	1.06	106	90-110
Silver	0.500	0.532	106	90-110

a Acceptability limits as per EPA Contract Laboratory Program

Project Number: DOIIWAD3 POL PHASEII
Project ID Name: HAFB
DOII WAD3
Holloman, NM
Work Order Number: W7-03-0045
Date Reported: 03-10-97

Table 3

BLANK REPORT

Metals in Soil

Analyte	Initial Calibration Blank, mg/L	Preparation Blank, mg/Kg
Arsenic	<0.20	<20
Barium	<0.20	<20
Cadmium	<0.020	<2.0
Chromium	<0.030	<3.0
Lead	<0.0040	<4.0
Mercury	<0.0025	<0.25
Selenium	<0.20	<20
Silver	<0.020	<2.0

<# Not detected at the indicated detection limit (#)

Project Number: DOIIWAD3 POL PHASEII
Project ID Name: HAFB
DOII WAD3
Holloman, NM
Work Order Number: W7-03-0045
Date Reported: 03-10-97

Table 4A

MATRIX SPIKE AND MATRIX SPIKE DUPLICATE SUMMARY

Metals in Soil

Sample Spiked: Method 6010A W7030045-01
Sample Spiked: Method 7121 W7030045-01
Sample Spiked: Method 7471A W7030045-01

Analyte	Spike Added, mg/Kg	Sample Concentration, mg/Kg	MS Concentration, mg/Kg	MS Percent Recovery	Acceptability Limits, %[a]
Arsenic	169	<40	154	90.6	80-120
Barium	169	<20	154	91.0	80-120
Cadmium	85.6	<2.0	76.5	89.4	80-120
Chromium	169	<3.0	148	87.4	80-120
Lead	1.87	2.97	5.45	131[b]	75-125
Mercury	0.303	<0.25	0.248	81.8	75-125
Selenium	169	<20	163	96.2	80-120
Silver	33.9	<2.0	14.8	43.7[b]	80-120

a Acceptability limits as per EPA Contract Laboratory Program.

b Value is outside of acceptability limits.

NA Not applicable; initial sample concentration greater than four times the spike amount.

Project Number: DOIIWAD3 POL PHASEII
Project ID Name: HAFB
DOII WAD3
Holloman, NM
Work Order Number: W7-03-0045
Date Reported: 03-10-97

Table 4B

MATRIX SPIKE AND MATRIX SPIKE DUPLICATE SUMMARY

Metals in Soil

Analyte	Spike Added, mg/Kg	MSD Concentration, mg/Kg	MSD Percent Recovery	RPD %	Acceptability Limits, %[a]
					RPD
Arsenic	147	127	86.5	4.72	20.0
Barium	147	128	87.2	4.24	20.0
Cadmium	74.3	61.7	83.1	7.24	20.0
Chromium	147	119	80.6	8.08	20.0
Lead	1.85	4.85	102	25.7[b]	20.0
Mercury	0.260	0.209	80.5	1.69	20.0
Selenium	147	135	91.6	4.91	20.0
Silver	29.4	17	57.9	27.9[b]	20.0

a Acceptability limits as per EPA Contract Laboratory Program.

b Value is outside of acceptability limits.

NA Not applicable; initial sample concentration greater than four times the spike amount.

Project Number: DOIIWAD3 POL PHASEII
Project ID Name: HAFB
DOII WAD3
Holloman, NM
Work Order Number: W7-03-0045
Date Reported: 03-10-97

Table 5

LABORATORY CONTROL SAMPLE RESULTS

Metals in Soil

Analyte	Expected Result, mg/Kg	Observed Result, mg/Kg	Recovery, %	Acceptability Limits, %[a]
Arsenic	200	183	91.5	80-120
Barium	200	192	96.0	80-120
Cadmium	101	94.8	93.9	80-120
Chromium	200	195	97.5	80-120
Lead (LCS)	2.00	2.11	106	75-125
Lead (LCSD)	2.00	2.10	105	75-125
Mercury	0.333	0.268	80.5	75-125
Selenium	200	195	97.5	80-120
Silver (LCS)	40.0	37.2	93.0	80-120
Silver (LCSD)	40.0	37.5	93.8	80-120

a Acceptability limits established by laboratory practice

Project ID (Number): SOIIWAD3 POL PHASEII
Project ID (Name): HAFB
DOII WAD3
Holloman, NM
Work Order Number: W7-03-0045
Date Reported: 03-10-97

ANALYTICAL RESULTS

Semivolatile Organics in TCLP Leachate[a]
EPA Method 8270B[b]

	GTEL File Number	01	02		
	Client Identification	SWMU28-SP	SWMU23-SP		
	Date Sampled	03-03-97	03-03-97		
	Date Leached	03-05-97	03-05-97		
	Date Extracted	03-06-97	03-06-97		
	Extraction Fluid	#1	#1		
	Date Analyzed	03-08-97	03-08-97		
Analyte	Quantitation Limit, mg/L	Concentration, mg/L			
o-Cresol	0.033	<0.033	<0.033		
m-Cresol + p-Cresol	0.033	<0.033	<0.033		
1,4-Dichlorobenzene	0.033	<0.033	<0.033		
2,4-Dinitrotoluene	0.033	<0.033	<0.033		
Hexachloro-1,3-butadiene	0.033	<0.033	<0.033		
Hexachlorobenzene	0.033	<0.033	<0.033		
Hexachloroethane	0.033	<0.033	<0.033		
Nitrobenzene	0.033	<0.033	<0.033		
Pentachlorophenol	0.17	<0.17	<0.17		
Pyridine	0.033	<0.033	<0.033		
2,4,5-Trichlorophenol	0.033	<0.033	<0.033		
2,4,6-Trichlorophenol	0.033	<0.033	<0.033		
Quantitation Limit Multiplier[c]		1	1		

a Test Methods for Evaluating Solid Waste, SW-846, Third Edition, Revision 0, US EPA, November 1986; extraction by EPA Method 3510 (liquid/liquid). TCLP performed as per 40 CFR, Part 261, Appendix II - Method 1311. These data are presented in accordance with the Federal Register, 57, p.55114, November 24, 1992.

b Test Methods for Evaluating Solid Waste, SW-846, Third Edition, Revision 2, US EPA, Jan 1995; extraction by EPA Method 3510 (liquid/liquid).

c The quantitation limit multiplier indicates the adjustments made to the reporting limits for sample dilutions.

Project ID (Number): SOIIWAD3 POL PHASEII
Project ID (Name): HAFB
DOII WAD3
Holloman, NM
Work Order Number: W7-03-0045
Date Reported: 03-10-97

QA NONCONFORMANCE SUMMARY

Semivolatile Organics in TCLP Leachate
EPA Method 8270B[b]

1.0 Sample Handling

1.1 Sample handling and holding time criteria were not met for **zero** samples.

2.0 Surrogate Compound Recoveries

2.1 The recovery limits were exceeded for **zero** surrogate compounds as shown in Table 2.

3.0 Matrix Spike (MS) Accuracy

3.1 The recovery limits were exceeded in the matrix spike for **zero** compounds as shown in Table 3A and 3.5A.

4.0 Sample Duplicate Precision

4.1 The maximum percent difference (RPD) was exceeded for **zero** compounds in the duplicate samples as shown in Table 3B and 3.5B.

5.0 Method Blanks

5.1 **Zero** target compound(s) was/were found in the method blank as shown in Table 4.

Project ID (Number): SOIIWAD3 POL PHASEII
Project ID (Name): HAFB
DOII WAD3
Holloman, NM
Work Order Number: W7-03-0045
Date Reported: 03-10-97

Table 2

SURROGATE RECOVERY SUMMARY

Semivolatile Organics in TCLP Leachate
EPA Method 8270B[b]

GTEL No.	Percent Recovery, %						
	S1 (NBZ)	S2 (FBP)	S3 (TPH)	S4 (PHL)	S5 (2FP)	S6 (TBP)	TOTAL OUT
BT030697BNA	88.4	87.8	95.0	82.9	72.9	78.1	0
LT030697BNA	93.9	86.0	94.0	90.5	76.3	89.4	0
LTD030697BNA	85.7	84.8	93.9	82.7	70.6	88.0	0
W703004501	87.5	83.4	92.4	79.7	70.4	89.3	0
W703004502	82.3	78.0	89.6	63.2	61.1	88.9	0
MS03004502	84.8	83.6	92.6	79.5	69.0	98.7	0
MD03004502	85.7	80.9	88.4	77.2	69.0	90.0	0

Surrogates

			Recovery Limits[a]
S1	NBZ	Nitrobenzene-d5	35-114
S2	FBP	2-Fluorobiphenyl	43-116
S3	TPH	Terphenyl-d14	33-141
S4	PHL	Phenol-d5	10-94
S5	2FP	2-Fluorophenol	21-100
S6	TBP	2,4,6-Tribromophenol	10-123

D Surrogate diluted out.
* Indicates values outside of acceptability limits.
a Acceptability limits are derived from USEPA Contract Laboratory Program (CLP) guidelines.

Project ID (Number): SOIIWAD3 POL PHASEII
Project ID (Name): HAFB
DOII WAD3
Holloman, NM
Work Order Number: W7-03-0045
Date Reported: 03-10-97

Table 3

MATRIX SPIKE (MS) AND MATRIX SPIKE DUPLICATE (MSD) SUMMARY
PERCENT RECOVERY AND RELATIVE PERCENT DIFFERENCE (RPD)
Base/Nuetrals ND Acids in TCLP Extract
EPA Method 8270B

Sample Spiked: BT030697BNA Client ID: EF#1

Analyte	Spike Added, ug/L	Sample Concentration, ug/L	MS Concentration, ug/L	MS Percent Recovery	Acceptability Limits, %[a]
Pyridine	333	<33	222.5	66.7	10-150
1,4-Dichlorogenzene	333	<33	244.5	73.3	36-97
2-Methylphenol	333	<33	274.7	82.4	32-119
3&4-Methylphenol	667	<33	525.0	78.8	32-119
Hexachloroethane	333	<33	224.1	67.2	40-113
Nitrobenzene	333	<33	263.2	79.0	35-180
Hexachlorobutadiene	333	<33	251.6	75.5	24-116
2,4,6-Trichlorophenol	333	<33	265.8	79.8	37-144
2,4,5-Trichlorophenol	333	<33	273.7	82.1	37-144
2,4-Dinitrotoluene	333	<33	238.2	71.5	24-96
Hexachlorobenzene	333	<33	248.5	74.6	10-152
Pentachlorophenol	333	<167	288.7	86.6	10-103

Table 3B

Analyte	Spike Added, ug/L	MSD Concentration, ug/L	MSD Percent Recovery	RPD, %	Acceptability Limits[a]	
					RPD	% Recovery
Pyridine	333	224.6	67.4	1.0	50	10-150
1,4-Dichlorobenzene	333	240.8	72.3	1.5	27	36-97
2-Methylphenol	333	261.4	78.4	5.0	34	32-119
3&4-Methylphenol	667	500.0	75.0	4.9	34	32-119
Hexachloroethane	333	230.6	69.2	2.8	26	40-113
Nitrobenzene	333	247.4	74.2	6.2	39	35-180
Hexachlorobutadiene	333	252.1	75.6	0.2	38	24-116
2,4,6-Trichlorophenol	333	265.7	79.7	0.1	34	37-144
2,4,5-Trichlorophenol	333	280.3	84.1	2.4	34	37-144
2,4-Dinitrotoluene	333	244.6	73.4	2.7	47	24-96
Hexachlorobenzene	333	257.2	77.2	3.4	60	10-152
Pentachlorophenol	333	301.0	90.3	4.2	47	10-103

* Indicates values outside of acceptability limits.
a Acceptability limits are derived from USEPA contract laboratory program (CLP) requirements.
RPD: 0 out of 12 outside of limits.
Spike Recovery: 0 of 24 outside limits.

Project ID (Number): SOIIWAD3 POL PHASEII
Project ID (Name): HAFB
DOII WAD3
Holloman, NM
Work Order Number: W7-03-0045
Date Reported: 03-10-97

Table 3.5

MATRIX SPIKE (MS) AND MATRIX SPIKE DUPLICATE (MSD) SUMMARY
PERCENT RECOVERY AND RELATIVE PERCENT DIFFERENCE (RPD)
Base/Nuetrals ND Acids in TCLP Extract
EPA Method 8270B

Sample Spiked: BT030697BNA Client ID: EF#1

Analyte	Spike Added, ug/L	Sample Concentration, ug/L	MS Concentration, ug/L	MS Percent Recovery	Acceptability Limits, %[a]
Pyridine	333	<33	204.2	61.3	10-150
1,4-Dichlorogenzene	333	<33	243.4	73.0	36-97
2-Methylphenol	333	<33	266.4	79.9	32-119
3&4-Methylphenol	667	<33	506.3	76.0	32-119
Hexachloroethane	333	<33	229.9	69.0	40-113
Nitrobenzene	333	<33	245.5	73.6	35-180
Hexachlorobutadiene	333	<33	252.0	75.6	24-116
2,4,6-Trichlorophenol	333	<33	292.6	87.8	37-144
2,4,5-Trichlorophenol	333	<33	320.5	96.2	37-144
2,4-Dinitrotoluene	333	<33	275.1	82.5	24-96
Hexachlorobenzene	333	<33	260.5	78.2	10-152
Pentachlorophenol	333	<167	328.5	98.5	10-103

Table 3.5B

Analyte	Spike Added, ug/L	MSD Concentration, ug/L	MSD Percent Recovery	RPD, %	Acceptability Limits[a]	
					RPD	% Recovery
Pyridine	333	226.1	67.8	10.2	50	10-150
1,4-Dichlorobenzene	333	230.8	69.2	5.3	27	36-97
2-Methylphenol	333	253.9	76.2	4.8	34	32-119
3&4-Methylphenol	667	488.0	73.2	3.7	34	32-119
Hexachloroethane	333	220.8	66.3	4.0	26	40-113
Nitrobenzene	333	240.1	72.0	2.2	39	35-180
Hexachlorobutadiene	333	251.1	75.3	0.3	38	24-116
2,4,6-Trichlorophenol	333	269.7	80.9	8.2	34	37-144
2,4,5-Trichlorophenol	333	296.1	88.8	7.9	34	37-144
2,4-Dinitrotoluene	333	260.6	78.2	5.4	47	24-96
Hexachlorobenzene	333	230.9	69.3	12.1	60	10-152
Pentachlorophenol	333	305.6	91.7	7.2	47	10-103

* Indicates values outside of acceptability limits.
a Acceptability limits are derived from USEPA contract laboratory program (CLP) requirements.
RPD: 0 out of 12 outside of limits.
Spike Recovery: 0 of 24 outside limits.

Project ID (Number): SOIIWAD3 POL PHASEII
Project ID (Name): HAFB
DOII WAD3
Holloman, NM
Work Order Number: W7-03-0045
Date Reported: 03-10-97

Table 4

METHOD BLANK RESULTS

Semivolatile Organics in TCLP Leachate[a]
EPA Method 8270B[b]

	GTEL File Number	BT030697A
	Date Leached	03-05-97
	Date Extracted	03-06-97
	Extraction fluid	#1
	Date Analyzed	03-08-97
Analyte	Reporting Limit, mg/L	Concentration, mg/L
o-Cresol	0.033	<0.033
m-Cresol + p-Cresol	0.033	<0.033
1,4-Dichlorobenzene	0.033	<0.033
2,4-Dinitrotoluene	0.033	<0.033
Hexachloro-1,3-butadiene	0.033	<0.033
Hexachlorobenzene	0.033	<0.033
Hexachloroethane	0.033	<0.033
Nitrobenzene	0.033	<0.033
Pentachlorophenol	0.17	<0.17
Pyridine	0.033	<0.033
2,4,5-Trichlorophenol	0.033	<0.033
2,4,6-Trichlorophenol	0.33	<0.033
Reporting Limit Multiplier[c]	1	1

a Test Methods for Evaluating solid Waste, SW-846, Third Edition, Revision 9, US EPA, November 1986; extraction by EPA Method 3510 (liquid/liquid). TCLP performed as per 40 CFT, Part 261, Appendix II - Method 1311. These data are presented in accordance with the Federal Register, 57, p.55114, November 24, 1992.

b Test Methods for Evaluating Solid Waste, SW-846, Third Edition, Revision 2, US EPA, Jan 1995; extraction by EPA Method 3510 (liquid/liquid)Test Methods for Evaluating solid Waste, SW-846, Third Edition, Revision 9, US EPA, November 1986; extraction by EPA Method 3510 (liquid/liquid).

c The quantitation limit multiplier indicates the adjustments made to the reporting limits for sample dilutions.

Project ID (Number): SOIIWAD3 POL PHASEII
Project ID (Name): HAFB
DOII WAD3
Holloman, NM
Work Order Number: W7-03-0045
Date Reported: 03-10-97

ANALYTICAL RESULTS

Volatile Organics in TCLP Leachate[a]
EPA Method 8240 Modified

GTEL Sample Number		01	02		
Client Identification		SWMU28-SP	SWMU23-SP		
Date Sampled		03-03-97	03-03-97		
Date Leached		03-06-97	03-06-97		
Date Analyzed		03-07-97	03-07-97		
Analyte	Quantitation Limit, mg/L	Concentration, mg/L			
Benzene	0.050	<0.050	<0.050		
Carbon tetrachloride	0.050	<0.050	<0.050		
Chlorobenzene	0.050	<0.050	<0.050		
Chloroform	0.050	<0.050	<0.050		
1,2-Dichloroethane	0.050	<0.050	<0.050		
1,1-Dichloroethylene	0.050	<0.050	<0.050		
Methyl ethyl ketone	0.20	<0.20	<0.20		
Tetrachloroethylene	0.050	<0.050	<0.050		
Trichloroethylene	0.050	<0.050	<0.050		
Vinyl chloride	0.10	<0.10	<0.10		
Quantitation Limit Multiplier[b]		1	1		

a Test Methods for Evaluating Solid Waste, SW-846, Third Edition, Revision 0, US EPA, November 1986. This method is modified for megabore column use. TCLP is performed as per 40 CFR, Part 261, Appendix II-Method 1311. These data are presented in accordance with the Federal Register 57, p. 55114, November 24, 1992.

b The quantitation limit multiplier indicates the adjustments made to the data and detection limits for sample dilutions.

Project ID (Number): SOIIWAD3 POL PHASEII
Project ID (Name): HAFB
DOII WAD3
Holloman, NM
Work Order Number: W7-03-0045
Date Reported: 03-10-97

QA NONCONFORMANCE SUMMARY

Volatile Organics in TCLP Leachate
EPA Method 8240 Modified

1.0 Sample Handling

1.1 Sample handling and holding time criteria were not met for zero samples.

2.0 Surrogate Compound Recoveries

2.1 The recovery limits were exceeded for surrogate compounds in zero samples as shown in Table 2.

3.0 Matrix Spike (MS) Accuracy

3.1 The recovery limits were exceeded in the matrix spike for zero compounds as shown in Table 3.

4.0 Sample Duplicate Precision

4.1 The maximum percent difference (RPD) was exceeded for zero compounds in the duplicate samples as shown in Table 3.

5.0 Method Blanks

5.1 Zero target compound(s) was/were found in the method blank as shown in Table 4.

Project ID (Number): SOIIWAD3 POL PHASEII
Project ID (Name): HAFB
DOII WAD3
Holloman, NM
Work Order Number: W7-03-0045
Date Reported: 03-10-97

Table 2

SURROGATE RECOVERY SUMMARY

Volatile Organics in TCLP Leachate
EPA Method 8240 Modified

GTEL No.	Percent Recovery, %			
	S1 (TOL)	S2 (BFB)	S3 (DCE)	TOTAL OUT
TCLP030697F1	97.9	98.7	93.2	0
W703004501	101	100	89.6	0
W703004502	99.9	100	93.3	0
MS03004502	103	89.7	101	0
MD03004502	103	89.8	90.7	0
BMS030697	99.9	89.4	101	0
BMD030697	103	87.8	89.9	0

	Surrogates		Amount Spiked, ug/L	Recovery Limits[a]
S1	TOL	Toluene-d8	50	88-110
S2	BFB	Bromofluorobenzene	50	86-115
S3	DCE	1,2-Dichloroethane-d4	50	76-114

* Indicates values outside of acceptability limits.
a Acceptability limits are derived from USEPA Contract Laboratory Program (CLP) guidelines.
D Diluted out. Percent Recovery is not calculated when surrogate compound(s) are diluted out.

Project ID (Number): SOIIWAD3 POL PHASEII
Project ID (Name): HAFB
DOII WAD3
Holloman, NM
Work Order Number: W7-03-0045
Date Reported: 03-10-97

Table 3

MATRIX SPIKE (MS) AND MATRIX SPIKE DUPLICATE (MSD) SUMMARY
PERCENT RECOVERY AND RELATIVE PERCENT DIFFERENCE (RPD)
Volatile Organics in TCLP Extract
Modified EPA Method 8240

Sample Spiked: W703004502 Client ID: SWMU23-SP

Analyte	Spike Added, ug/L	Sample Concentration, ug/L	MS Concentration, ug/L	MS Percent Recovery	Acceptability Limits, %[a]
Vinyl Chloride	100.0	<10	87.6	87.6	10-251[1]
1,1-Dichloroethene	100.0	<5	101.6	101.6	61-145[5]
Chloroform	100.0	<5	103.8	103.6	51-138[1]
1,2-Dichloroethane	100.0	<5	102.4	102.4	49-155[1]
2-Butanone	100.0	<20	88.3	88.3	28-180[3]
Carbon Tetrachloride	100.0	<5	102.8	102.8	70-140[1]
Trichloroethene	100.0	<5	102.4	102.4	71-120[5]
Benzene	100.0	<5	114.0	114.0	76-127[1]
Tetrachloroethene	100.0	<5	89.8	89.8	64-148[1]
Chlorobenzene	100.0	<5	102.7	102.7	75-130[5]

Analyte	Spike Added, ug/L	MSD Concentration, ug/L	MSD Percent Recovery	RPD, %	Acceptability Limits	
					RPD	% Recovery
Vinyl Chloride	100.0	96.2	96.2	9.3	65.0[3]	10-251[1]
1,1-Dichloroethene	100.0	105.0	105.0	3.3	14[5]	61-145[5]
Chloroform	100.0	103.6	104.6	0.8	18.2[3]	51-138[1]
1,2-Dichloroethane	100.0	103.5	103.5	1.0	20.6[3]	49-155[1]
2-Butanone	100.0	88.3	85.9	2.8	25.0[3]	20-180[3]
Carbon Tetrachloride	100.0	103.6	103.6	0.8	11.3[3]	70-140[1]
Trichloroethene	100.0	101.2	101.2	1.2	14[5]	71-120[5]
Benzene	100.0	112.4	112.4	1.4	11[5]	76-127[1]
Tetrachloroethene	100.0	91.4	91.3	1.7	15.6[3]	64-148[1]
Chlorobenzene	100.0	104.2	104.1	1.4	13[5]	75-130[5]

* Indicates values outside of acceptability limits.
1 Accuracy limits as published in the EPA methods. (lowest acceptable limit has been tightened to 10% recovery based on laboratory practice)
3 Limits based on laboratory practice i.e. provisional limits.
5 Acceptability limits are derived from USEPA Contract Laboratory Program (CLP) requirements.
RPD: 0 of 10 outside limits.
Spike Recovery: 0 of 20 outside limits.

Project ID (Number): SOIIWAD3 POL PHASEII
Project ID (Name): HAFB
DOII WAD3
Holloman, NM
Work Order Number: W7-03-0045
Date Reported: 03-10-97

Table 3

LABORATORY CONTROL SAMPLE (LCS) AND LABORATORY CONTROL DUPLICATE RESULTS
PERCENT RECOVERY AND RELATIVE PERCENT DIFFERENCE (RPD)
Volatile Organics in TCLP Extract
Modified EPA Method 8240

Sample Spiked: TCLP030697

Analyte	Spike Added, ug/L	Sample Concentration, ug/L	MS Concentration, ug/L	MS Percent Recovery	Acceptability Limits, %[a]
Vinyl Chloride	100.0	<10	90.6	90.6	10-251[1]
1,1-Dichloroethene	100.0	<5	98.1	98.1	61-145[5]
Chloroform	100.0	<5	108.1	108.1	51-138[1]
1,2-Dichloroethane	100.0	<5	107.9	107.9	49-155[1]
2-Butanone	100.0	<20	77.2	77.2	28-180[3]
Carbon Tetrachloride	100.0	<5	105.4	105.4	70-140[1]
Trichloroethene	100.0	<5	105.4	105.4	71-120[5]
Benzene	100.0	<5	116.9	116.9	76-127[1]
Tetrachloroethene	100.0	<5	95.4	95.4	64-148[1]
Chlorobenzene	100.0	<5	109.5	109.5	75-130[5]

* Indicates values outside of acceptability limits.
1 Accuracy limits as published in the EPA methods. (lowest acceptable limit has been tightened to 10% recovery based on laboratory practice)
3 Limits based on laboratory practice i.e. provisional limits.
5 Acceptability limits are derived from USEPA Contract Laboratory Program (CLP) requirements.
Spike Recovery: _0_ of _10_ outside limits.

Project ID (Number): SOIIWAD3 POL PHASEII
Project ID (Name): HAFB
DOII WAD3
Holloman, NM
Work Order Number: W7-03-0045
Date Reported: 03-10-97

Table 4

METHOD BLANK RESULTS

Volatile Organics in TCLP Leachate[a]
EPA Method 8240 Modified

	File ID	TCLP030697F1
	Date Leached	03-06-97
	Date Analyzed	03-07-97
Analyte	Quantitation Limit, mg/L	Concentration, mg/L
Benzene	0.050	<0.050
Carbon tetrachloride	0.050	<0.050
Chlorobenzene	0.050	<0.050
Chloroform	0.050	<0.050
1,2-Dichloroethane	0.050	<0.050
1,1-Dichloroethylene	0.050	<0.050
Methyl ethyl ketone	0.20	<0.050
Tetrachloroethylene	0.050	<0.050
Trichloroethylene	0.050	<0.050
Vinyl chloride	0.10	<0.10

a Test Methods for Evaluating Solid Waste, SW-846, Third Edition, Revision 0, US EPA, November 1986. This method is modified for megabore column use. TCLP is performed as per 40 CFR, Part 261, Appendix II-Method 1311. These data are presented in accordance with the Federal Register 57, p. 55114, November 24, 1992.

ANALYTICAL RESULTS
Volatile Organics

NEI/GTEL Client ID: FWH03FWH03
in Number: W7030045
Project ID (number): DOIIWAD3 POL PHASEII
Project ID (name): HAFB/DOII WAD3/HOLLOMAN/NM

Method: EPA 8021A
Matrix: Solids

NEI/GTEL Sample Number	W7030045-01	W7030045-02	--	--
Client ID	SWMU28-SP	SWMU23-SP	--	--
Date Sampled	03/03/97	03/03/97	--	--
Date Analyzed	03/06/97	03/06/97	--	--
Dilution Factor	1.00	1.00	--	--

Analyte	Reporting Limit	Units	Concentration:Dry Weight			
Benzene	0.05	mg/kg	< 0.05	< 0.05	--	--
Toluene	0.10	mg/kg	< 0.10	< 0.10	--	--
Ethylbenzene	0.10	mg/kg	< 0.10	< 0.10	--	--
Xylenes (total)	0.20	mg/kg	< 0.20	< 0.20	--	--
Percent Solids	--	%	72.9	87.2	--	--

Notes:

Dilution Factor:

Dilution factor indicates the adjustments made for sample dilution.

EPA 8021A:

EPA 8021A: "Test Methods for Evaluating Solid Waste, Physical and Chemical Methods", SW-846, Third Edition, Revision 1, US EPA September 1994.

NEI/GTEL Client ID: FWH03FWH03 QUALITY CONTROL RESULTS
Login Number: W7030045 Volatile Organics
Project ID (number): DOIIWAD3 POL PHASEII Method: EPA 80[illegible]
Project ID (name): HAFB/DOII WAD3/HOLLOMAN/NM Matrix: So

Surrogate Results

QC Batch No.	Reference	Sample ID	TFT	BFB
Method: EPA 8021A		Acceptability Limits:	70-130%	70-130%
030697GC17-1	CV0306972017	Calibration Verifi	105.	107.
030697GC17-10	LSD03069717	LCS Soil Duplicate	111.	119.
030697GC17-11	MS03002903	Matrix Spike	102.	109.
030697GC17-12	MD03002903	Matrix Spike Dupli	110.	119.
030697GC17-8	BS03069717	Method Blank Soil	100.	104.
030697GC17-9	LS03069717	Laboratory control	114.	120.
--	03004501	SWMU28-SP	88.4	89.8
--	03004502	SWMU23-SP	92.8	88.1

Notes:
*: Indicates values outside of acceptability limits. See Nonconformance Summary.

NEI/GTEL Client ID: FWH03FWH03 QUALITY CONTROL RESULTS
Login Number: W7030045 Volatile Organics
Project ID (number): DOIIWAD3 POL PHASEII Method: EPA 8021A
Project ID (name): HAFB/DOII WAD3/HOLLOMAN/NM Matrix: Solids

Method Blank Results

QC Batch No: 030697GC17-8
Date Analyzed: 06-MAR-97

Analyte	Method:EPA 8021A Concentration: mg/kg
Benzene	< 0.0500
Toluene	< 0.100
Ethylbenzene	< 0.100
Xylenes (Total)	< 0.200

Notes:

NEI/GTEL Client ID: FWH03FWH03 QUALITY CONTROL RESULTS
Login Number: W7030045 Volatile Organics
Project ID (number): DOIIWAD3 POL PHASEII Method: EPA 8[illegible]A
Project ID (name): HAFB/DOII WAD3/HOLLOMAN/NM Matrix: S[illegible]

Matrix Spike(MS) and Matrix Spike Duplicate(MSD) Results

GTEL Sample ID:W7030029-03 MS ID:MS03002903 MSD ID:MD03002903
Analysis Date: 07-MAR-97 07-MAR-97 07-MAR-97

Units: mg/kg	Sample	Spikes Added		MS	MS	MSD	MSD		Acceptability Limits	
Analyte	Conc.	MS	MSD	Conc.	% Rec.	Conc.	% Rec.	RPD	RPD	%Rec.
Benzene	< 0.05(0.000)	2.50	2.82	2.00	80.0	2.55	90.4	12.2	28.3	39-150
Toluene	< 0.10(0.000)	2.50	2.82	2.00	80.0	2.58	91.5	13.4	30	46-148
Ethylbenzene	< 0.10(0.000)	2.50	2.82	1.88	75.2	2.49	88.3	16.0	30	32-160
Xylenes (Total)	< 0.20(0.000)	7.49	8.45	5.43	72.5	8.20	97.0	28.9	30	41-155

Notes:
Values in parentheses in the sample concentration column are used for % recovery calculations.

NEI/GTEL Client ID: FWH03FWH03 QUALITY CONTROL RESULTS
gin Number: W7030045 Volatile Organics
oject ID (number): DOIIWAD3 POL PHASEII Method: EPA 8021A
Project ID (name): HAFB/DOII WAD3/HOLLOMAN/NM Matrix: Solids

Laboratory Control Sample (LCS) and Laboratory Control Duplicate Results

Analyte	Spike Amount	LCS Concentration	LCS Recovery, %	LCS Duplicate Concentration	LCS Duplicate Recovery, %	RPD, %	Acceptability Limits RPD, %	Acceptability Limits Recovery, %
EPA 8021A Units: ug/L		QC Batch:030697GC17-10						
Benzene	2.50	2.37	94.8	2.46	98.4	3.73	28.3	39-150%
Toluene	2.50	2.37	94.8	2.44	97.6	2.91	30	46-148%
Ethylbenzene	2.50	2.33	93.2	2.45	98.0	5.02	30	32-160%
Xylenes (Total)	7.50	7.31	97.5	7.43	99.1	1.63	30	41-155%

Notes:

NEI/GTEL Client ID: FWH03FWH03 QUALITY CONTROL RESULTS
Login Number: W7030045 Volatile Organics
Project ID (number): DOIIWAD3 POL PHASEII Method: EPA 80
Project ID (name): HAFB/DOII WAD3/HOLLOMAN/NM Matrix: Sol

Conformance/Non-Conformance Summary

(X = Requirements Met * = See Comments -- = Not Required NA = Not Applicable)

Conformance Item	Volatile Organics	Semi-Volatile Organics	Inorganics (MT, WC)
GC/MS Tune	--	--	NA
Initial Calibration	--	--	--
Continuing Calibration	X	--	--
Surrogate Recovery	X	--	NA
Holding Time	X	--	--
Method Accuracy	X	--	--
Method Precision	X	--	--
Blank Contamination	X	--	--

Comments:

ANALYTICAL RESULTS
Total Petroleum Hydrocarbons

' ˜/GTEL Client ID: FWH03FWH03
n Number: W7030045
Project ID (number): DOIIWAD3 POL PHASEII
Project ID (name): HAFB/DOII WAD3/HOLLOMAN/NM

Method: EPA 418.1
Matrix: Solids

NEI/GTEL Sample Number	W7030045-01	W7030045-02	--	--
Client ID	SWMU28-SP	SWMU23-SP	--	--
Date Sampled	03/03/97	03/03/97	--	--
Date Prepared	03/06/97	03/06/97		
Date Analyzed	03/07/97	03/07/97	--	--
Dilution Factor	1.00	1.00	--	--

Analyte	Reporting Limit	Units	Concentration:Dry Weight			
Total Petroleum Hydrocarbons	20.	mg/kg	1200	510	--	--
Percent Solids	--	%	72.9	87.2	--	--

Notes:

Dilution Factor:

Dilution factor indicates the adjustments made for sample dilution.

EPA 418.1:

Extraction is modified for soils by using EPA Method 9071 (soxhlet extraction). "Methods for Chemical Analysis of Water and Wastes", EPA 600/4-79-020, USEPA EMSL, Cincinnati, OH, Revised, March 1983.

NEI/GTEL Client ID: FWH03FWH03 QUALITY CONTROL RESULTS
Login Number: W7030045 Total Petroleum Hydrocarbons
Project ID (number): DOIIWAD3 POL PHASEII Method: EPA 418.
Project ID (name): HAFB/DOII WAD3/HOLLOMAN/NM Matrix: Solids

Method Blank Results

QC Batch No: 030697IRSX-1
Date Analyzed: 07-MAR-97

Analyte	Method:EPA 418.1	Concentration: mg/kg
Total Petroleum Hydrocarbons	< 20.0	

Notes:

NEI/GTEL Client ID: FWH03FWH03 QUALITY CONTROL RESULTS
n Number: W7030045 Total Petroleum Hydrocarbons
ect ID (number): DOIIWAD3 POL PHASEII Method: EPA 418.1
Project ID (name): HAFB/DOII WAD3/HOLLOMAN/NM Matrix: Solids

Laboratory Control Sample Summary

Analyte	Spike Amount	Check Sample Concentration	QC Percent Recovery	Acceptability Limits Recovery
EPA 418.1 Units:mg/kg	QC Batch:030697IRSX-2			
Total Petroleum Hydrocarbons	150.	189.	126.	42-141%

Notes:
The accuracy limits are for a fuel oil #2 spike when the calibration is based on the standard reference oil.

NEI/GTEL Client ID: FWH03FWH03 QUALITY CONTROL RESULTS
Login Number: W7030045 Total Petroleum Hydrocarbons
Project ID (number): DOIIWAD3 POL PHASEII Method: EPA 41
Project ID (name): HAFB/DOII WAD3/HOLLOMAN/NM Matrix: Solids

Matrix Spike(MS) and Matrix Spike Duplicate(MSD) Results

GTEL Sample ID:W7030045-01 MS ID:MS03004501 MSD ID:MD03004501
Analysis Date: 07-MAR-97 07-MAR-97 07-MAR-97

Units: mg/kg	Sample	Spikes Added		MS	MS	MSD	MSD		Acceptability Limits	
Analyte	Conc.	MS	MSD	Conc.	% Rec.	Conc.	% Rec.	RPD	RPD	%Rec.
Total Petroleum Hydrocarbons	890 (888.)	150.	150.	874.	-9.33*	868.	-13.3*	35.1	50	42-141

Notes:
Values in parentheses in the sample concentration column are used for % recovery calculations.
The spike recovery data may not be representative of the accuracy of the method or demonstrate true matrix interferences due to the ratio of background to spike amount.

The accuracy limits are for a fuel oil #2 spike when the calibration is based on the standard reference oil.
030697IRSX-4: Sample spike recovery is outside of acceptability limits due to high sample concentration. Blank spike recovery is within acceptability limits, therefore demonstrating method accuracy.

NEI/GTEL Client ID: FWH03FWH03

QUALITY CONTROL RESULTS

n Number: W7030045

Total Petroleum Hydrocarbons

ject ID (number): DOIIWAD3 POL PHASEII

Method: EPA 418.1

Project ID (name): HAFB/DOII WAD3/HOLLOMAN/NM

Matrix: Solids

Conformance/Non-Conformance Summary

(X = Requirements Met * = See Comments -- = Not Required NA = Not Applicable)

Conformance Item	Volatile Organics	Semi-Volatile Organics	Inorganics (MT, WC)
GC/MS Tune	--	--	NA
Initial Calibration	--	--	--
Continuing Calibration	--	X	--
Surrogate Recovery	--	--	NA
Holding Time	--	X	--
Method Accuracy	--	*	--
Method Precision	--	X	--
Blank Contamination	--	X	--

Comments:

The accuracy limits are for a fuel oil #2 spike when the calibration is based on the standard reference oil.

NEI/GTEL Client ID: FWH03FWH03 QUALITY CONTROL RESULTS
Login Number: W7030045 Total Petroleum Hydrocarbons
Project ID (number): DOIIWAD3 POL PHASEII Method: EPA 418.1
Project ID (name): HAFB/DOII WAD3/HOLLOMAN/NM Matrix: So

Matrix Spike(MS) and Matrix Spike Duplicate(MSD) Results

GTEL Sample ID:W7030045-01 MS ID:MS03004501 MSD ID:MD03004501
Analysis Date: 07-MAR-97 07-MAR-97 07-MAR-97

Units: mg/kg	Sample	Spikes Added		MS	MS	MSD	MSD		Acceptability Limits	
Analyte	Conc.	MS	MSD	Conc.	% Rec.	Conc.	% Rec.	RPD	RPD	%Rec.
Total Petroleum Hydrocarbons	890 (888.)	150	150	874	-9.33*	868	-13.3*	35.1	50	42-141

Notes:
Values in parentheses in the sample concentration column are used for % recovery calculations.
The spike recovery data may not be representative of the accuracy of the method or demonstrate true matrix interferences due to the ratio of background to spike amount.

The accuracy limits are for a fuel oil #2 spike when the calibration is based on the standard reference oil.
030697IRSX-4: Sample spike recovery is outside of acceptability limits due to high sample concentration. Blank spike recovery is within acceptability limits, therefore demonstrating method accuracy.

APPENDIX B

SWMU 28

GTEL
ENVIRONMENTAL
LABORATORIES, INC.

Midwest Region
4211 May Avenue
Wichita, KS 67209
(316) 945-2624
(800) 633-7936
(316) 945-0506 (FAX)

January 24, 1996

Dan Holmquist
Foster Wheeler Environmental Corporation
241 Arkansas St. /Behind Rv Storage
Holloman Afb, NM 88330

RE: GTEL Client ID:	FWH03FWH03
Login Number:	W6010320
Project ID (number):	D011 WAD3
Project ID (name):	HOLLOMAN AFB/DO WAD/HOLLOMAN/NM

Dear Dan Holmquist:

Enclosed please find the analytical results for the samples received by GTEL Environmental Laboratories, Inc. on 01/23/96 under Chain-of-Custody Number(s) 44473.

A formal Quality Assurance/Quality Control (QA/QC) program is maintained by GTEL, which is designed to meet or exceed the EPA requirements. Analytical work for this project met QA/QC criteria unless otherwise stated in the footnotes. This report is to be reproduced only in full.

GTEL is certified by the State of Kansas under Certification Numbers E-103, E-1113.

If you have any questions regarding this analysis, or if we can be of further assistance, please call our Customer Service Representative.

Sincerely,
GTEL Environmental Laboratories, Inc.

John O. Sattler
QA/QC Manager for

Terry R. Loucks
Laboratory Director

GTEL Client ID: FWH03FWH03

QUALITY CONTROL RESULTS

ogin Number: W6010320

Project ID (number): D011 WAD3

Project ID (name): HOLLOMAN AFB/DO WAD/HOLLOMAN/NM

Total Petroleum Hydrocarbons

Method: EPA 418.1

Matrix: Solids

Conformance/Non-Conformance Summary

(X = Requirements Met * = See Comments -- = Not Required NA = Not Applicable)

Conformance Item	Volatile Organics	Semi-Volatile Organics	Inorganics (MT, WC)
GC/MS Tune	--	--	NA
Initial Calibration	--	--	--
Continuing Calibration	--	X	--
Surrogate Recovery	--	--	NA
Holding Time	--	X	--
Method Accuracy	--	*	--
Method Precision	--	X	--
Blank Contamination	--	X	--

Comments:

The accuracy limits are for a fuel oil #2 spike when the calibration is based on the standard reference oil.

The accuracy limits are for a fuel oil #2 spike when the calibration is based on the standard reference oil.

* Sample spike recovery is outside of control limits for sample W6-01-0320-01 due to high sample concentration. Blank spike recovery is within the limits, therefore demonstrating method control.

ANALYTICAL RESULTS
Total Petroleum Hydrocarbons

GTEL Client ID: FWH03FWH03
Login Number: W6010320
Project ID (number): D011 WAD3
Project ID (name): HOLLOMAN AFB/DO WAD/HOLLOMAN/NM

Method: EPA 418.1
Matrix: Solids

GTEL Sample Number	W6010320-01	W6010320-02	--	--
Client ID	SWMU28-SP-50	SWMU28-SP-100	--	--
Date Sampled	01/21/96	01/21/96	--	--
Date Prepared	01/24/96	01/24/96		
Date Analyzed	01/24/96	01/24/96	--	--
Dilution Factor	10.0	10.0	--	--

Analyte	Reporting Limit	Units	Concentration:Wet Weight			
Total Petroleum Hydrocarbons	20.	mg/kg	5600	8000	--	--
Percent Solids	--	%	82.2	75.5	--	--

Notes:

Dilution Factor:

Dilution factor indicates the adjustments made for sample dilution.

EPA 418.1:

Extraction is modified for soils by using EPA Method 9071 (soxhlet extraction). "Methods for Chemical Analysis of Water and Wastes", EPA 600/4-79-020, USEPA EMSL, Cincinnati, OH, Revised, March 1983.

GTEL Client ID: FWH03FWH03

QUALITY CONTROL RESULTS

Login Number: W6010320

Total Petroleum Hydrocarbons

oject ID (number): D011 WAD3

Method: EPA 418.1

rroject ID (name): HOLLOMAN AFB/DO WAD/HOLLOMAN/NM

Matrix: Solids

Method Blank Results

QC Batch No: 012496IRSX-1

Date Analyzed: 24-JAN-96

Analyte	Method:EPA 418.1	Concentration: mg/kg
Total Petroleum Hydrocarbons	< 20.0	

Notes:

GTEL Client ID: FWH03FWH03

QUALITY CONTROL RESULTS

Login Number: W6010320

Total Petroleum Hydrocarbons

Project ID (number): D011 WAD3

Method: EPA

Project ID (name): HOLLOMAN AFB/DO WAD/HOLLOMAN/NM

Matrix: Solids

Calibration Verification Sample Summary

Analyte	Spike Amount	Check Sample Concentration	QC Percent Recovery	Acceptability Limits Recovery
EPA 418.1 Units:mg/L	QC Batch:012496IRSX-6			
Total Petroleum Hydrocarbons	5.00	4.91	98.2	90-110%

Notes:

GTEL Client ID: FWH03FWH03

QUALITY CONTROL RESULTS

Login Number: W6010320

Project ID (number): D011 WAD3

Project ID (name): HOLLOMAN AFB/DO WAD/HOLLOMAN/NM

Total Petroleum Hydrocarbons

Method: EPA 418.1

Matrix: Solids

Laboratory Control Sample Summary

Analyte	Spike Amount	Check Sample Concentration	QC Percent Recovery	Acceptability Limits Recovery
EPA 418.1 Units:mg/kg	QC Batch:012496IRSX-2			
Total Petroleum Hydrocarbons	150.	205.	137.	40-140%

Notes: .

The accuracy limits are for a fuel oil #2 spike when the calibration is based on the standard reference oil.

GTEL Client ID: FWH03FWH03 QUALITY CONTROL RESULTS
Login Number: W6010320 Total Petroleum Hydrocarbo
Project ID (number): D011 WAD3 Method: EPA 41
Project ID (name): HOLLOMAN AFB/DO WAD/HOLLOMAN/NM Matrix: Solids

Matrix Spike(MS) and Matrix Spike Duplicate(MSD) Results

GTEL Sample ID:W6010320-01 MS ID:MS01032001 MSD ID:MD01032001
Analysis Date: 24-JAN-96 24-JAN-96 24-JAN-96

Units: mg/kg	Sample	Spikes Added		MS	MS	MSD	MSD		Acceptability Limits	
Analyte	Conc.	MS	MSD	Conc.	% Rec.	Conc.	% Rec.	RPD	RPD	%Rec.
Total Petroleum Hydrocarbons	5600 (5550)	150	150	6560	673.*	6460	607.*	10.3	50	42-141

Notes:
Values in parentheses in the sample concentration column are used for % recovery calculations.
The spike recovery data may not be representative of the accuracy of the method or demonstrate true matrix interferences due to the ratio of background to spike amount.

The accuracy limits are for a fuel oil #2 spike when the calibration is based on the standard reference oil.
012496IRSX-4: Sample spike recovery is outside of acceptability limits due to high sample concentration. Blank spike recovery is within acceptability limits, therefore demonstrating method accuracy.
012496IRSX-5: Sample spike recovery is outside of acceptability limits due to high sample concentration. Blank spike recovery is within acceptability limits, therefore demonstrating method accuracy.

ANALYTICAL RESULTS
Flashpoint

TL Client ID: FWH03FWH03
gin Number: W6010320
Project ID (number): D011 WAD3
Project ID (name): HOLLOMAN AFB/DO WAD/HOLLOMAN/NM

Method: ASTM D93/EPA 1010
Matrix: Solids

GTEL Sample Number	W6010320-01	W6010320-02	--	--
Client ID	SWMU28-SP-50	SWMU28-SP-100	--	--
Date Sampled	01/21/96	01/21/96	--	--
Date Analyzed	01/24/96	01/24/96	--	--
Dilution Factor	1.00	1.00	--	--

Analyte	Reporting Limit	Units	Concentration:Wet Weight			
Flashpoint (Closed Cup)	75.0	degrees F	> 200.	> 200.	--	--
Percent Solids	--	%	82.2	75.5	--	--

Notes:

Dilution Factor:

Dilution factor indicates the adjustments made for sample dilution.

ASTM D93/EPA 1010:

Annual Book of ASTM Standards, 1983 Revision.

505-479-2081

SMWU 28

NEI/GTEL
ENVIRONMENTAL LABORATORIES, INC.

Midwest Region
4211 May Avenue
Wichita, KS 67209
(316) 945-2624
(800) 633-7936
(316) 945-0506 (FAX)

February 4, 1997

Dan Holmquist
Foster Wheeler Environmental Corporation
241 Arkansas St. /Behind Rv Storage
Holloman A F B, NM 88330

RE: NEI/GTEL Client ID: FWH03FWH03
Login Number: W7010404
Project ID (number): DOIIWAD3 POL PHASEII
Project ID (name): HAFB/DOII WAD3/HOLLOMAN/NM

Dear Dan Holmquist:

Enclosed please find the analytical results for the samples received by NEI/GTEL Environmental Laboratories, Inc. on 01/30/97 under Chain-of-Custody Number(s) 47744.

A formal Quality Assurance/Quality Control (QA/QC) program is maintained by NEI/GTEL, which is designed to meet or exceed the EPA requirements. Analytical work for this project met QA/QC criteria unless otherwise stated in the footnotes. This report is to be reproduced only in full.

NEI/GTEL is certified by the U.S. Army Corp of Engineers Laboratory Validation, expiration date March 18, 1997.

If you have any questions regarding this analysis, or if we can be of further assistance, please call our Customer Service Representative.

Sincerely,
NEI/GTEL Environmental Laboratories, Inc.

John O. Sawler
QA/QC Manager for
Terry R. Loucks
Laboratory Director

ANALYTICAL RESULTS
Total Petroleum Hydrocarbons

NEI/GTEL Client ID: FWH03FWH03
Login Number: W7010404
Project ID (number): DOIIWAD3 POL PHASEII
Project ID (name): HAFB/DOII WAD3/HOLLOMAN/NM

Method: EPA 418.1
Matrix: Solids

NEI/GTEL Sample Number	W7010404-01	W7010404-02	W7010404-03	W7010404-04
Client ID	SWMU28-01-05	SWMU28-02-05	SWMU28-03-05	SWMU23-01-04
Date Sampled	01/27/97	01/27/97	01/27/97	01/29/97
Date Prepared	02/03/97	02/03/97	02/03/97	02/03/97
Date Analyzed	02/04/97	02/04/97	02/04/97	02/04/97
Dilution Factor	1.00	1.00	1.00	1.00

Analyte	Reporting Limit	Units	Concentration:Wet Weight			
Total Petroleum Hydrocarbons	20	mg/kg	< 20.	< 20.	< 20.	< 20.
Percent Solids	--	%	69.3	73.8	75.4	81.3

Notes:

Dilution Factor:

Dilution factor indicates the adjustments made for sample dilution.

EPA 418.1:

Extraction is modified for soils by using EPA Method 9071 (soxhlet extraction). "Methods for Chemical Analysis of Water and Wastes", EPA 600/4-79-020. USEPA EMSL, Cincinnati, OH, Revised, March 1983.

APPENDIX B

SWMU 132

NEI/GTEL
ENVIRONMENTAL LABORATORIES, INC.

Midwest Region
4211 May Avenue
Wichita, KS 67209
(316) 945-2624
(800) 633-7936
(316) 945-0506 (FAX)

Date: October 14, 96

Work Order Number: W6100199

Company Name: Foster Wheeler Environmental Corp.

Attention: Dan Helmquist

The following facsimile is partial analytical results for samples received by NEI/GTEL Environmental Laboratories, Inc. The rest of the analytical results will follow under a separate cover letter.

A formal quality control/quality assurance program is maintained by NEI/GTEL, which is designed to meet or exceed the EPA requirements. Analytical work for this project met QA/QC criteria unless otherwise stated in the footnotes.

If you have any questions concerning this analysis, or if we can be of further assistance, please call your Customer Service Representative.

Sincerely,

Customer Service Manager

Terry R. Loucks
General Manager

ANALYTICAL RESULTS
Total Petroleum Hydrocarbons

GTEL Client ID: FWH03FWH03
Login Number: W6100199
Project ID (number): FWH03FWH03
Project ID (name): HAFB/DO WAD/HOLLOMAN/NM

Method: EPA 418.1
Matrix: Solids

GTEL Sample Number	W6100199-01	W6100199-02	W6100199-03	W6100199-04
Client ID	SWMU132-01-4	SWMU132-02-4	SWMU132-03-4	SWMU132-04-4
Date Sampled	10/09/96	10/09/96	10/09/96	10/09/96
Date Prepared	10/12/96	10/12/96	10/12/96	10/12/96
Date Analyzed	10/13/96	10/13/96	10/13/96	10/13/96
Dilution Factor	1.00	1.00	1.00	1.00

Analyte	Reporting Limit	Units	Concentration:Dry Weight			
Total Petroleum Hydrocarbons	20.	mg/kg	< 20.	71.	< 20.	27.
Percent Solids	--	%	66.8	88.7	75.1	84.2

Notes:

Dilution Factor:

Dilution factor indicates the adjustments made for sample dilution.

EPA 418.1:

Extraction is modified for soils by using EPA Method 9071 (soxhlet extraction). "Methods for Chemical Analysis of Water and Wastes", EPA 600/4-79-020, USEPA EMSL, Cincinnati, OH, Revised, March 1983.

ANALYTICAL RESULTS
Total Petroleum Hydrocarbons

GTEL Client ID: FWH03FWH03
Login Number: W6100199
Project ID (number): FWH03FWH03
Project ID (name): HAFB/DO WAD/HOLLOMAN/NM

Method: EPA 418.1
Matrix: Solids

GTEL Sample Number	W6100199-05	--	--	--
Client ID	SWMU132-05-5	--	--	--
Date Sampled	10/09/96	--	--	--
Date Prepared	10/12/96			
Date Analyzed	10/13/96	--	--	--
Dilution Factor	1.00	--	--	--

Analyte	Reporting Limit	Units	Concentration:Dry Weight			
Total Petroleum Hydrocarbons	20.	mg/kg	< 20.	--	--	--
Percent Solids	--	%	70.0	--	--	--

Notes:

Dilution Factor:

Dilution factor indicates the adjustments made for sample dilution.

EPA 418.1:

Extraction is modified for soils by using EPA Method 9071 (soxhlet extraction). "Methods for Chemical Analysis of Water and Wastes". EPA 600/4-79-020. USEPA EMSL, Cincinnati, OH, Revised, March 1983.

CERTIFICATE OF DISPOSAL

USAF-Holloman Air Force Base
550 Tabosa Ave.
Holloman AFB, New Mexico 88330-8458

EPA ID #: NM6572124422

MANIFEST #: R01434

STATE MANIFEST #:

WASTE STREAM: 13213

WORK ORDER #: 220768

This certificate serves as notification that the waste materials herein described have been properly disposed of in accordance with information supplied and certified by the above named generator, and with current applicable laws and regulations set forth by the United States of America and the State of Colorado.

Highway 36 Land Development Company
108555 Highway 36 HCR-1
Deer Trail, Colorado 80105

EPA ID # COD991300484

COLORADO DEPARTMENT OF HEALTH
PERMIT NO # 086-001-002/S01, S02, T21, T29, T31, T34, T40, T49, D81

---------- 2/18/92 ------

Ken Miner
Business Manager

Date

Highway 36 Land Development Company
108555 East Highway 36 HCR-1
Deer Trail, Colorado 80105-9611

Date 2-14, 19 97

Container # 89529
W/S 13273
Manifest # RO1434
Work Order # 220768
Trailer # 8

49141 02/14/97 46540 LB (N) Gross
33740 LB Tare
15800 LB Net
ID 14

Driver Mike [ ] ON [X] OFF

Weighed By

==========

Gate Monitor Readings For Radioactivity ..... East 3.5 West 3.5

==========

THREE-TIERED MANIFEST REVIEW PROCESS

THE HAZARDOUS WASTE MANIFEST
HAS BEEN REVIEWED FOR COMPLETENESS AND ACCURACY

COMMENTS	SIGNATURE
	SAMPLE RECEIVING
	WASTE ACCEPTANCE MGR.
cy	SECURITY

==========

SITE TRACKING

LOCATION	COMMENTS	TIME
X SOLIDIFICATION	2/14/97	10:05
CELL	MC - A-1	10:15
TRUCK WASH	2/14/97	10:20
		10:22
OTHER		

297-96

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.
Manifest Document No. R01434
2. Page 1 of 1 14

3. Generator's Name and Mailing Address
49 CES/CEV
Holloman Air Force Base
Holloman AFB, NM
OT-16/SWMU-132
SP #1

4. Generator Phone (505) 475-5396

5. Transporter 1 Company Name: Bellio Trucking
6. US EPA ID Number: N/A
A. Transporter's Phone: (303) 426-9629

7. Transporter 2 Company Name
8. US EPA ID Number
B. Transporter's Phone

9. Designated Facility Name and Site Address
Highway 36 Land Development Co
108555 E. Highway 36
Deer Trail, CO 80105
10. US EPA ID Number: C O D 9 9 1 3 0 0 4 8 4
C. Facility's Phone: (800) 392-1036

11. Waste Shipping Name and Description	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
Hydrocarbon Contaminated Soil	1	BULK	10	CY
b.				
c.				
d.				

D. Additional Descriptions for Materials Listed Above

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information
Waste Stream #13213
Non-Hazardous Materials

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.
Printed/Typed Name: WARREN NOFF
Signature: Warren Noff
Month 12 Day 1 Year 97

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: MIKE FINN
Signature: Mike Finn
Month 12 Day 13 Year 97

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name
Signature
Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.
Printed/Typed Name
Signature
Month Day Year

GENERATOR
TRANSPORTER
FACILITY

ORIGINAL - RETURN TO GENERATOR

NEI/GTEL
ENVIRONMENTAL LABORATORIES, INC.

Midwest Region
4211 May Avenue
Wichita, KS 67209
(316) 945-2624
(800) 633-7936
(316) 945-0506 (FAX)

October 16, 1996

Dan Holmquist
Foster Wheeler Environmental Corporation
241 Arkansas St. /Behind Rv Storage
Holloman A F B, NM 88330

RE:	GTEL Client ID:	FWH03FWH03
	Login Number:	W6100199
	Project ID (number):	
	Project ID (name):	HAFB/DO WAD/HOLLOMAN/NM

Dear Dan Holmquist:

Enclosed please find the analytical results for the samples received by GTEL Environmental Laboratories, Inc. on 10/11/96 under Chain-of-Custody Number(s) 44516.

A formal Quality Assurance/Quality Control (QA/QC) program is maintained by GTEL, which is designed to meet or exceed the EPA requirements. Analytical work for this project met QA/QC criteria unless otherwise stated in the footnotes. This report is to be reproduced only in full.

NEI/GTEL is certified by the U.S. Army Corp of Engineers Laboratory Validation, expiration date March 18, 1997.

If you have any questions regarding this analysis, or if we can be of further assistance, please call our Customer Service Representative.

Sincerely,
GTEL Environmental Laboratories, Inc.

Customer Service Manager

Terry R. Loucks
Laboratory Director

RECEIVED OCT 21 1996

ANALYTICAL RESULTS
Organochlorine Pesticides and/or PCB's

GTEL Client ID: FWH03FWH03
gin Number: W6100199
roject ID (number): FWH03FWH03
Project ID (name): HAFB/DO WAD/HOLLOMAN/NM

Method: EPA 8081
Matrix: Solids

GTEL Sample Number	W6100199-07	W6100199-08	W6100199-09	W6100199-10
Client ID	SWMU132-01-4	SWMU132-02-4	SWMU132-03-4	SWMU132-04-4
Date Sampled	10/09/96	10/09/96	10/09/96	10/09/96
Date Prepared	10/14/96	10/14/96	10/14/96	10/14/96
Date Analyzed	10/15/96	10/16/96	10/16/96	10/15/96
Dilution Factor	1.00	10.0	3.00	1.00

Analyte	Reporting Limit	Units	Concentration:Dry Weight			
alpha-BHC	1.0	ug/kg	< 1.0	< 10.	< 3.0	< 1.0
gamma-BHC(Lindane)	1.0	ug/kg	< 1.0	< 10.	< 3.0	< 1.0
beta-BHC	1.0	ug/kg	< 1.0	< 10.	< 3.0	< 1.0
Heptachlor	1.0	ug/kg	< 1.0	< 10.	< 3.0	< 1.0
delta-BHC	1.0	ug/kg	< 1.0	< 10.	< 3.0	< 1.0
Aldrin	1.0	ug/kg	< 1.0	< 10.	< 3.0	< 1.0
Heptachlor epoxide	1.0	ug/kg	< 1.0	< 10.	< 3.0	< 1.0
Endosulfan I	1.0	ug/kg	< 1.0	< 10.	< 3.0	< 1.0
4,4'-DDE	1.0	ug/kg	< 1.0	< 10.	< 3.0	< 1.0
Dieldrin	1.0	ug/kg	< 1.0	< 10.	< 3.0	< 1.0
Endrin	1.0	ug/kg	< 1.0	< 10.	< 3.0	< 1.0
4,4'-DDD	1.0	ug/kg	< 1.0	< 10.	< 3.0	< 1.0
dosulfan II	1.0	ug/kg	< 1.0	< 10.	< 3.0	< 1.0
4'-DDT	1.0	ug/kg	< 1.0	< 80.	< 10.	< 10.
Endrin aldehyde	1.0	ug/kg	< 2.0	< 10.	< 3.0	< 6.0
Endosulfan sulfate	1.0	ug/kg	< 1.0	< 40.	< 10.	< 3.0
Methoxychlor	1.0	ug/kg	< 1.0	< 10.	< 3.0	< 1.0
Endrin ketone	1.0	ug/kg	< 1.0	< 10.	< 3.0	< 1.0
alpha-Chlordane	1.0	ug/kg	< 1.0	< 10.	< 3.0	1.8
gamma-Chlordane	1.0	ug/kg	< 1.0	< 10.	< 3.0	2.1
Toxaphene	20.	ug/kg	< 20.	< 200	< 60.	< 20.
PCB - Aroclor 1221	10.	ug/kg	< 10.	< 100	< 30.	< 10.
PCB - Aroclor 1232	10.	ug/kg	< 10.	< 100	< 30.	< 10.
PCB - Aroclor 1242 (1016)	10.	ug/kg	< 10.	< 100	< 30.	< 10.
PCB - Aroclor 1248	10.	ug/kg	< 10.	< 100	< 30.	< 10.
PCB - Aroclor 1254	10.	ug/kg	< 10.	< 100	< 30.	< 10.
PCB - Aroclor 1260	10.	ug/kg	21.	3400	750	300
Percent Solids	--	%	66.8	88.7	75.1	84.2

Notes:

Dilution Factor:

Dilution factor indicates the adjustments made for sample dilution.

EPA 8081:

Extraction by EPA METHOD 3550 (sonication). "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW-846, Third Edition including Update 2.

W6100199-07:

Reporting limit for Endrin Aldehyde is elevated because of matrix interference.

W6100199-08:

ANALYTICAL RESULTS
Organochlorine Pesticides and/or PCB's

GTEL Client ID: FWH03FWH03
Login Number: W6100199
Project ID (number): FWH03FWH03
Project ID (name): HAFB/DO WAD/HOLLOMAN/NM

Method: EPA 8081
Matrix: Solids

GTEL Sample Number	W6100199-07	W6100199-08	W6100199-09	W6100199-10
Client ID	SWMU132-01-4	SWMU132-02-4	SWMU132-03-4	SWMU132-04-4
Date Sampled	10/09/96	10/09/96	10/09/96	10/09/96
Date Prepared	10/14/96	10/14/96	10/14/96	10/14/96
Date Analyzed	10/15/96	10/16/96	10/16/96	10/15/96
Dilution Factor	1.00	10.0	3.00	1.00

Analyte	Reporting Limit	Units	Concentration:Dry Weight

Notes: (continued)

Reporting limits for DDT and Endosulfan Sulfate are elevated because of matrix interference.

W6100199-09:

Reporting limits for DDT and Endosulfan Sulfate are elevated because of matrix interference.

W6100199-10:

Reporting limits for DDT, Endrin Aldehyde, and Endosulfan Sulfate are elevated because of matrix interference.

ANALYTICAL RESULTS
Organochlorine Pesticides and/or PCB's

GTEL Client ID: FWH03FWH03
gin Number: W6100199
Project ID (number): FWH03FWH03
Project ID (name): HAFB/DO WAD/HOLLOMAN/NM

Method: EPA 8081
Matrix: Solids

GTEL Sample Number	W6100199-11	--	--	--
Client ID	SWMU132-05-5	--	--	--
Date Sampled	10/09/96	--	--	--
Date Prepared	10/14/96			
Date Analyzed	10/15/96	--	--	--
Dilution Factor	1.00	--	--	--

Analyte	Reporting Limit	Units	Concentration:Dry Weight			
alpha-BHC	1.0	ug/kg	< 1.0	--	--	--
gamma-BHC(Lindane)	1.0	ug/kg	< 1.0	--	--	--
beta-BHC	1.0	ug/kg	1.2	--	--	--
Heptachlor	1.0	ug/kg	< 1.0	--	--	--
delta-BHC	1.0	ug/kg	< 1.0	--	--	--
Aldrin	1.0	ug/kg	< 1.0	--	--	--
Heptachlor epoxide	1.0	ug/kg	< 1.0	--	--	--
Endosulfan I	1.0	ug/kg	< 1.0	--	--	--
4,4'-DDE	1.0	ug/kg	< 1.0	--	--	--
Dieldrin	1.0	ug/kg	< 1.0	--	--	--
Endrin	1.0	ug/kg	< 1.0	--	--	--
4,4'-DDD	1.0	ug/kg	< 1.0	--	--	--
iosulfan II	1.0	ug/kg	< 1.0	--	--	--
,4'-DDT	1.0	ug/kg	< 2.0	--	--	--
Endrin aldehyde	1.0	ug/kg	< 15.	--	--	--
Endosulfan sulfate	1.0	ug/kg	< 2.0	--	--	--
Methoxychlor	1.0	ug/kg	< 1.0	--	--	--
Endrin ketone	1.0	ug/kg	< 1.0	--	--	--
alpha-Chlordane	1.0	ug/kg	< 1.0	--	--	--
gamma-Chlordane	1.0	ug/kg	< 1.0	--	--	--
Toxaphene	20.	ug/kg	< 20.	--	--	--
PCB - Aroclor 1221	10.	ug/kg	< 10.	--	--	--
PCB - Aroclor 1232	10.	ug/kg	< 10.	--	--	--
PCB - Aroclor 1242 (1016)	10.	ug/kg	< 10.	--	--	--
PCB - Aroclor 1248	10.	ug/kg	< 10.	--	--	--
PCB - Aroclor 1254	10.	ug/kg	< 10.	--	--	--
PCB - Aroclor 1260	10.	ug/kg	180	--	--	--
Percent Solids	--	%	70.0	--	--	--

Notes:

Dilution Factor:

Dilution factor indicates the adjustments made for sample dilution.

EPA 8081:

Extraction by EPA METHOD 3550 (sonication). "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW-846, Third Edition including Update 2.

W6100199-11:

Reporting limits for DDT, Endrin Aldehyde, and Endosulfan Sulfate are elevated because of matrix interference.

GTEL Client ID: FWH03FWH03
Login Number: W6100199
Project ID (number): FWH03FWH03
Project ID (name): HAFB/DO WAD/HOLLOMAN/NM

QUALITY CONTROL RESULTS

Organochlorine Pesticides and/or PCB
Method: EPA
Matrix: Solids

Conformance/Non-Conformance Summary

(X = Requirements Met * = See Comments -- = Not Required NA = Not Applicable)

Conformance Item	Volatile Organics	Semi-Volatile Organics	Inorganics (MT, WC)
GC/MS Tune	--	--	NA
Initial Calibration	--	--	--
Continuing Calibration	--	--	--
Surrogate Recovery	--	X	NA
Holding Time	--	X	--
Method Accuracy	--	*	--
Method Precision	--	*	--
Blank Contamination	--	X	--

Comments:

*: Indicates value(s) outside of acceptability limits. See Nonconformance Summary.

*: Indicates value(s) outside of acceptability limits. See Nonconformance Summary.

Method Accuracy and Precision

Endrin Aldehyde is susceptible to chemical degradation. Although recovery is low in the laboratory control sample, it is acceptable in both matrix spikes, and data is unaffected.

Accuracy and precision values for DDT and Endosulfan Sulfate are unacceptable because of high background interferences. Recoveries for these two compounds are acceptable in the laboratory control sample, demonstrating system control.

GTEL Client ID: FWH03FWH03 QUALITY CONTROL RESULTS
gin Number: W6100199 Organochlorine Pesticides and/or PCB
oject ID (number): FWH03FWH03 Method: EPA 8081
Project ID (name): HAFB/DO WAD/HOLLOMAN/NM Matrix: Solids

Surrogate Results

QC Batch No.	Reference	Sample ID	TCMX	DCBP
Method: EPA 8081		Acceptability Limits:	37.7-126%	35.6-155%
101496PESS-1	BS101496PES	Method Blank Soil	52.3	69.1
101496PESS-2	LS101496PES	Laboratory control	60.0	75.3
101496PESS-4	MS10019908	Matrix Spike	82.0	101.
101496PESS-5	MD10019908	Matrix Spike Dupli	79.1	99.0
--	10019907	SWMU132-01-4	50.1	76.6
--	10019908	SWMU132-02-4	70.9	108.
--	10019909	SWMU132-03-4	70.9	86.7
--	10019910	SWMU132-04-4	57.7	62.8
--	10019911	SWMU132-05-5	57.3	65.3

Notes:

*: Indicates values outside of acceptability limits. See Nonconformance Summary.

Data is acceptable as long as at least one surrogate has a recovery within acceptability limits.

Acceptability limits are derived from statistical analysis of laboratory samples.

GTEL Client ID: FWH03FWH03
Login Number: W6100199
Project ID (number): FWH03FWH03
Project ID (name): HAFB/DO WAD/HOLLOMAN/NM

QUALITY CONTROL RESULTS

Organochlorine Pesticides and/or PCB
Method: EPA 8
Matrix: Solids

Method Blank Results

QC Batch No: 101496PESS-1
Date Analyzed: 15-OCT-96

Analyte	Method:EPA 8081	Concentration: ug/kg
alpha-BHC	< 1.00	
gamma-BHC(Lindane)	< 1.00	
beta-BHC	< 1.00	
Heptachlor	< 1.00	
delta-BHC	< 1.00	
Aldrin	< 1.00	
Heptachlor epoxide	< 1.00	
Endosulfan I	< 1.00	
4,4'-DDE	< 1.00	
Dieldrin	< 1.00	
Endrin	< 1.00	
4,4'-DDD	< 1.00	
Endosulfan II	< 1.00	
4,4'-DDT	< 1.00	
Endrin aldehyde	< 1.00	
Endosulfan sulfate	< 1.00	
Endrin ketone	< 1.00	
Methoxychlor	< 1.00	
alpha-Chlordane	< 1.00	
gamma-Chlordane	< 1.00	
Toxaphene	< 20.0	
PCB - Aroclor 1221	< 10.0	
PCB - Aroclor 1232	< 10.0	
PCB - Aroclor 1242 (1016)	< 10.0	
PCB - Aroclor 1242 (1016)	< 10.0	
PCB - Aroclor 1248	< 10.0	
PCB - Aroclor 1254	< 10.0	
PCB - Aroclor 1260	< 10.0	

Notes:

GTEL Client ID: FWH03FWH03
ogin Number: W6100199
roject ID (number): FWH03FWH03
Project ID (name): HAFB/DO WAD/HOLLOMAN/NM

QUALITY CONTROL RESULTS

Organochlorine Pesticides and/or PCB
Method: EPA 8081
Matrix: Solids

Laboratory Control Sample Summary

Analyte	Spike Amount	Check Sample Concentration	QC Percent Recovery	Acceptability Limits Recovery
EPA 8081 Units:ug/L	QC Batch:101496PESS-2			
alpha-BHC	8.33	5.46	65.5	37-134%
gamma-BHC(Lindane)	8.33	5.69	68.3	46-127%
beta-BHC	8.33	5.34	64.1	17-147%
Heptachlor	8.33	5.81	69.7	35-130%
delta-BHC	8.33	5.01	60.1	19-140%
Aldrin	8.33	5.56	66.7	34-132%
Heptachlor epoxide	8.33	5.64	67.7	37-142%
Endosulfan I	8.33	5.87	70.5	45-153%
4,4'-DDE	8.33	5.97	71.7	30-145%
Dieldrin	8.33	5.68	68.2	31-134%
Endrin	8.33	7.63	91.6	42-139%
4,4'-DDD	8.33	5.84	70.1	23-134%
Endosulfan II	8.33	6.26	75.2	10-202%
4,4'-DDT	8.33	6.47	77.7	38-127%
Endrin aldehyde	8.33	4.43	53.2*	56-121%
Endosulfan sulfate	8.33	5.87	70.5	26-144%
Methoxychlor	8.33	5.98	71.8	38-127%
drin ketone	8.33	5.69	68.3	56-121%

Notes:

*: Indicates value(s) outside of acceptability limits. See Nonconformance Summary.

101496PESS-2: Endrin Aldehyde is susceptible to chemical degradation. Although recovery is low in the laboratory control sample, it is acceptable in both matrix spikes, and data is unaffected.

GTEL Client ID: FWH03FWH03
Login Number: W6100199
Project ID (number): FWH03FWH03
Project ID (name): HAFB/DO WAD/HOLLOMAN/NM

QUALITY CONTROL RESULTS

Organochlorine Pesticides and/or PCB
Method: EPA 8
Matrix: Solids

Matrix Spike(MS) and Matrix Spike Duplicate(MSD) Results

GTEL Sample ID:W6100199-08 MS ID:MS10019908 MSD ID:MD10019908
Analysis Date: 16-OCT-96 16-OCT-96 16-OCT-96

Units: ug/kg	Sample	Spikes Added		MS	MS	MSD	MSD		Acceptability Limits	
Analyte	Conc.	MS	MSD	Conc.	% Rec.	Conc.	% Rec.	RPD	RPD	%Rec.
alpha-BHC	< 10.0(0.000)	8.10	8.15	5.08	62.7	5.03	61.7	1.60	28	37-134
gamma-BHC(Lindane)	< 10.0(0.000)	8.10	8.15	5.76	71.1	5.67	69.6	2.10	15	46-127
beta-BHC	< 10.0(0.000)	8.10	8.15	6.60	81.5	6.70	82.2	0.900	38	17-147
Heptachlor	< 10.0(0.000)	8.10	8.15	6.31	77.9	6.47	79.4	1.90	20	35-130
delta-BHC	< 10.0(0.000)	8.10	8.15	4.62	57.0	4.92	60.4	5.80	43	19-140
Aldrin	< 10.0(0.000)	8.10	8.15	5.84	72.1	6.01	73.7	2.20	22	34-132
Heptachlor epoxide	< 10.0(0.000)	8.10	8.15	6.12	75.6	6.12	75.1	0.700	22	37-142
Endosulfan I	< 10.0(0.000)	8.10	8.15	5.79	71.5	5.83	71.5	0.00	25	45-153
4,4'-DDE	< 10.0(2.65)	8.10	8.15	7.31	57.5	7.06	54.1	6.10	30	30-145
Dieldrin	< 10.0(0.000)	8.10	8.15	5.68	70.1	5.73	70.3	0.300	18	31-134
Endrin	< 10.0(0.772)	8.10	8.15	6.28	68.0	7.06	77.2	12.7	21	42-139
4,4'-DDD	< 10.0(0.000)	8.10	8.15	5.14	63.5	5.99	73.5	14.6	32	23-134
Endosulfan II	< 10.0(0.000)	8.10	8.15	5.61	69.3	5.69	69.8	0.700	63	10-202
4,4'-DDT	349. (349.)	8.10	8.15	259.	-1110*	218.	-1610*	36.8*	27	38-127
Endrin aldehyde	< 10.0(0.000)	8.10	8.15	5.03	62.1	6.49	79.6	24.7*	21	56-121
Endosulfan sulfate	27.1 (27.1)	8.10	8.15	24.7	-29.6*	20.9	-76.1*	88.0*	32	26-144
Methoxychlor	< 10.0(0.000)	8.10	8.15	4.21	52.0	4.61	56.6	8.50	27	38-127
Endrin ketone	< 10.0(0.000)	8.10	8.15	5.08	62.7	5.11	62.7	0.00	21	56-121

Notes:
Values in parentheses in the sample concentration column are used for % recovery calculations.
The spike recovery data may not be representative of the accuracy of the method or demonstrate true matrix interferences due to the ratio of background to spike amount.

*: Indicates value(s) outside of acceptability limits. See Nonconformance Summary.
101496PESS-4: Accuracy and precision values for DDT and Endosulfan Sulfate are unacceptable because of high background interferences. Recoveries for these two compounds were acceptable in the laboratory control sample, demonstrating system control.
101496PESS-4: :The sample values for DDT and Endosulfan Sulfate shown here were not confirmed by a secondary column.

NEI/GTEL
ENVIRONMENTAL LABORATORIES, INC.

Midwest Region
4211 May Avenue
Wichita, KS 67209
(316) 945-2624
(800) 633-7936
(316) 945-0506 (FAX)

November 15, 1996

Dan Holmquist
Foster Wheeler Environmental Corporation
241 Arkansas St. /Behind Rv Storage
Holloman A F B, NM 88330

RE:	GTEL Client ID:	FWH03FWH03
	Login Number:	W6110248
	Project ID (number):	FWH03FWH03
	Project ID (name):	HAFB/DO WAD/HOLLOMAN/NM

Dear Dan Holmquist:

Enclosed please find the analytical results for the samples received by GTEL Environmental Laboratories, Inc. on 11/13/96 under Chain-of-Custody Number(s) 47742.

A formal Quality Assurance/Quality Control (QA/QC) program is maintained by GTEL, which is designed to meet or exceed the EPA requirements. Analytical work for this project met QA/QC criteria unless otherwise stated in the footnotes. This report is to be reproduced only in full.

NEI/GTEL is certified by the U.S. Army Corp of Engineers Laboratory Validation, expiration date March 18, 1997.

If you have any questions regarding this analysis, or if we can be of further assistance, please call our Customer Service Representative.

Sincerely,
GTEL Environmental Laboratories, Inc.

Justin Ward, Project Coordinator for
Terry R. Loucks
Laboratory Director

ANALYTICAL RESULTS
Flashpoint

GTEL Client ID: FWH03FWH03
gin Number: W6110248
Project ID (number): FWH03FWH03
Project ID (name): HAFB/DO WAD/HOLLOMAN/NM

Method: ASTM D93
Matrix: Solids

GTEL Sample Number	W6110248-01	--	--	--
Client ID	SWMU132-SP	--	--	--
Date Sampled	11/08/96	--	--	--
Date Analyzed	11/14/96	--	--	--
Dilution Factor	1.00	--	--	--

Analyte	Reporting Limit	Units	Concentration:Wet Weight			
Flashpoint (Closed Cup)	70.0	degrees F	> 200.	--	--	--
Percent Solids	--	%	87.7	--	--	--

Notes:

Dilution Factor:

Dilution factor indicates the adjustments made for sample dilution.

ASTM D93:

Annual Book of ASTM Standards, 1983 Revision.

ANALYTICAL RESULTS
Total Petroleum Hydrocarbons

GTEL Client ID: FWH03FWH03
Login Number: W6110248
Project ID (number): FWH03FWH03
Project ID (name): HAFB/DO WAD/HOLLOMAN/NM

Method: EPA 418.1
Matrix: Solids

GTEL Sample Number	W6110248-01	W6110248-02	W6110248-03	W6110248-04
Client ID	SWMU132-SP	SWMU132-01-4	SWMU132-02-4	SWMU132-03-4
Date Sampled	11/08/96	11/08/96	11/08/96	11/08/96
Date Prepared	11/15/96	11/15/96	11/15/96	11/15/96
Date Analyzed	11/15/96	11/15/96	11/15/96	11/15/96
Dilution Factor	1.00	1.00	1.00	1.00

Analyte	Reporting Limit	Units	Concentration:Dry Weight			
Total Petroleum Hydrocarbons	20.	mg/kg	38.	< 20.	< 20.	< 20.
Percent Solids	--	%	87.7	81.0	74.7	82.9

Notes:

Dilution Factor:

Dilution factor indicates the adjustments made for sample dilution.

EPA 418.1:

Extraction is modified for soils by using EPA Method 9071 (soxhlet extraction). "Methods for Chemical Analysis of Water and Wastes", EPA 600/4-79-020, USEPA EMSL, Cincinnati, OH, Revised, March 1983.

ANALYTICAL RESULTS
Total Petroleum Hydrocarbons

"TEL Client ID: FWH03FWH03
gin Number: W6110248
Project ID (number): FWH03FWH03
Project ID (name): HAFB/DO WAD/HOLLOMAN/NM

Method: EPA 418.1
Matrix: Solids

GTEL Sample Number	W6110248-05	W6110248-06	--	--
Client ID	SWMU132-04-4	SWMU132-05-5	--	--
Date Sampled	11/08/96	11/08/96	--	--
Date Prepared	11/15/96	11/15/96		
Date Analyzed	11/15/96	11/15/96	--	--
Dilution Factor	1.00	1.00	--	--

Analyte	Reporting Limit	Units	Concentration:Dry Weight			
Total Petroleum Hydrocarbons	20.	mg/kg	< 20.	63.	--	--
Percent Solids	--	%	84.8	84.6	--	--

Notes:

Dilution Factor:

Dilution factor indicates the adjustments made for sample dilution.

EPA 418.1:

Extraction is modified for soils by using EPA Method 9071 (soxhlet extraction). "Methods for Chemical Analysis of Water and Wastes", EPA 600/4-79-020, USEPA EMSL, Cincinnati, OH, Revised, March 1983.

GTEL Client ID: FWH03FWH03

QUALITY CONTROL RESULTS

Login Number: W6110248

Project ID (number): FWH03FWH03

Project ID (name): HAFB/DO WAD/HOLLOMAN/NM

Total Petroleum Hydrocarbons
Method: EPA 418.1
Matrix: Solids

Method Blank Results

QC Batch No: 111596IRSX-1
Date Analyzed: 15-NOV-96

Analyte	Method:EPA 418.1	Concentration: mg/kg
Total Petroleum Hydrocarbons	< 20.0	

Notes:

GTEL Client ID: FWH03FWH03 QUALITY CONTROL RESULTS
Login Number: W6110248 Total Petroleum Hydrocar
Project ID (number): FWH03FWH03 Method: EPA
Project ID (name): HAFB/DO WAD/HOLLOMAN/NM Matrix: Solids

Calibration Verification Sample Summary

Analyte	Spike Amount	Check Sample Concentration	QC Percent Recovery	Acceptability Limits Recovery
EPA 418.1 Units:mg/L	QC Batch:111596IRSX-6			
Total Petroleum Hydrocarbons	5.00	5.24	105.	90-110%

Notes:

GTEL Client ID: FWH03FWH03

QUALITY CONTROL RESULTS

gin Number: W6110248

oject ID (number): FWH03FWH03

Project ID (name): HAFB/DO WAD/HOLLOMAN/NM

Total Petroleum Hydrocarbons
Method: EPA 418.1
Matrix: Solids

Laboratory Control Sample Summary

Analyte	Spike Amount	Check Sample Concentration	QC Percent Recovery	Acceptability Limits Recovery
EPA 418.1 Units:mg/kg	QC Batch:111596IRSX-2			
Total Petroleum Hydrocarbons	150.	192.	128.	42-141%

Notes:

The accuracy limits are for a fuel oil #2 spike when the calibration is based on the standard reference oil.

GTEL Client ID: FWH03FWH03
Login Number: W6110248
Project ID (number): FWH03FWH03
Project ID (name): HAFB/DO WAD/HOLLOMAN/NM

QUALITY CONTROL RESULTS

Total Petroleum Hydrocarbons
Method: EPA
Matrix: Solids

Matrix Spike(MS) and Matrix Spike Duplicate(MSD) Results

GTEL Sample ID:W6110248-01 MS ID:MS11024801 MSD ID:MD11024801
Analysis Date: 15-NOV-96 15-NOV-96 15-NOV-96

Units: mg/kg	Sample	Spikes Added		MS	MS	MSD	MSD		Acceptability Limits	
Analyte	Conc.	MS	MSD	Conc.	% Rec.	Conc.	% Rec.	RPD	RPD	%Rec.
Total Petroleum Hydrocarbons	34. (33.6)	150.	150.	206.	115.	206.	115.	0.00	50	42-141

Notes:
Values in parentheses in the sample concentration column are used for % recovery calculations.
The accuracy limits are for a fuel oil #2 spike when the calibration is based on the standard reference oil.

GTEL Client ID: FWH03FWH03

QUALITY CONTROL RESULTS

Total Petroleum Hydrocarbons

Method: EPA 418.1

Matrix: Solids

Project ID (number): FWH03FWH03

Project ID (name): HAFB/DO WAD/HOLLOMAN/NM

Conformance/Non-Conformance Summary

(X = Requirements Met * = See Comments -- = Not Required NA = Not Applicable)

Conformance Item	Volatile Organics	Semi-Volatile Organics	Inorganics (MT, WC)
GC/MS Tune	--	--	NA
Initial Calibration	--	--	--
Continuing Calibration	--	X	--
Surrogate Recovery	--	--	NA
Holding Time	--	X	--
Method Accuracy	--	X	--
Method Precision	--	X	--
Blank Contamination	--	X	--

Comments:

ANALYTICAL RESULTS
Organochlorine Pesticides and/or PCB's

GTEL Client ID: FWH03FWH03
Login Number: W6110248
Project ID (number): FWH03FWH03
Project ID (name): HAFB/DO WAD/HOLLOMAN/NM

Method: EPA 8081
Matrix: Solids

GTEL Sample Number		W6110248-01	W6110248-02	W6110248-03	W6110248-04
Client ID		SWMU132-SP	SWMU132-01-4	SWMU132-02-4	SWMU132-03-4
Date Sampled		11/08/96	11/08/96	11/08/96	11/08/96
Date Prepared		11/13/96	11/13/96	11/13/96	11/13/96
Date Analyzed		11/15/96	11/15/96	11/15/96	11/15/96
Dilution Factor		1.00	1.00	1.00	1.00
Analyte	Reporting Limit / Units	Concentration:Dry Weight			
alpha-BHC	1.0 ug/kg	< 1.0	< 1.0	< 1.0	< 1.0
gamma-BHC(Lindane)	1.0 ug/kg	< 1.0	< 1.0	< 1.0	< 1.0
beta-BHC	1.0 ug/kg	< 1.0	< 1.0	< 1.0	< 1.0
Heptachlor	1.0 ug/kg	< 1.0	< 1.0	< 1.0	< 1.0
delta-BHC	1.0 ug/kg	< 1.0	< 1.0	< 1.0	< 1.0
Aldrin	1.0 ug/kg	< 1.0	< 1.0	< 1.0	< 1.0
Heptachlor epoxide	1.0 ug/kg	< 1.0	**1.5**	< 1.0	< 1.0
Endosulfan I	1.0 ug/kg	< 1.0	< 1.0	< 1.0	< 1.0
4,4'-DDE	1.0 ug/kg	< 6.0	< 15.	< 1.0	< 1.0
Dieldrin	1.0 ug/kg	< 1.0	< 1.0	< 1.0	< 1.0
Endrin	1.0 ug/kg	< 1.0	**2.8**	< 1.0	< 1.0
4,4'-DDD	1.0 ug/kg	< 1.0	< 1.0	< 1.0	< 1.0
Endosulfan II	1.0 ug/kg	< 1.0	< 1.0	< 1.0	< 1.0
4,4'-DDT	1.0 ug/kg	**410**	< 25.	< 3.0	< 1.0
Endrin aldehyde	1.0 ug/kg	< 5.0	< 6.0	< 8.0	< 3.0
Endosulfan sulfate	1.0 ug/kg	< 40.	< 10.	< 1.0	< 1.0
Methoxychlor	1.0 ug/kg	< 1.0	< 1.0	< 1.0	< 1.0
Endrin ketone	1.0 ug/kg	< 1.0	< 1.0	< 1.0	< 1.0
alpha-Chlordane	1.0 ug/kg	**4.1**	**6.7**	**1.6**	< 1.0
gamma-Chlordane	1.0 ug/kg	< 1.0	**2.0**	**1.8**	< 1.0
Toxaphene	20. ug/kg	< 20.	< 20.	< 20.	< 20.
PCB - Aroclor 1221	10. ug/kg	< 10.	< 10.	< 10.	< 10.
PCB - Aroclor 1232	10. ug/kg	< 10.	< 10.	< 10.	< 10.
PCB - Aroclor 1242 (1016)	10. ug/kg	< 10.	< 10.	< 10.	< 10.
PCB - Aroclor 1248	10. ug/kg	< 10.	< 10.	< 10.	< 10.
PCB - Aroclor 1254	10. ug/kg	< 2500	< 1000	< 60.	< 10.
PCB - Aroclor 1260	10. ug/kg	**3100**	**1300**	**90.**	**22.**
Percent Solids	-- %	87.7	81.0	74.7	82.9

Notes:

Dilution Factor:

Dilution factor indicates the adjustments made for sample dilution.

EPA 8081:

Extraction by EPA METHOD 3550 (sonication). "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW-846, Third Edition including Update 2.

W6110248-01:

Reporting limits are elevated due to interference from PCB 1260.

W6110248-02:

ANALYTICAL RESULTS
Organochlorine Pesticides and/or PCB's

GTEL Client ID: FWH03FWH03
gin Number: W6110248
Project ID (number): FWH03FWH03
Project ID (name): HAFB/DO WAD/HOLLOMAN/NM

Method: EPA 8081
Matrix: Solids

GTEL Sample Number	W6110248-01	W6110248-02	W6110248-03	W6110248-04
Client ID	SWMU132-SP	SWMU132-01-4	SWMU132-02-4	SWMU132-03-4
Date Sampled	11/08/96	11/08/96	11/08/96	11/08/96
Date Prepared	11/13/96	11/13/96	11/13/96	11/13/96
Date Analyzed	11/15/96	11/15/96	11/15/96	11/15/96
Dilution Factor	1.00	1.00	1.00	1.00

Analyte	Reporting Limit	Units	Concentration:Dry Weight

Notes: (continued)

Reporting limits are elevated due to interference from PCB 1260.

W6110248-03:

Reporting limits are elevated due to interference from PCB 1260.

W6110248-04:

Reporting limit is elevated due to interference from PCB 1260.

ANALYTICAL RESULTS
Organochlorine Pesticides and/or PCB's

GTEL Client ID: FWH03FWH03
Login Number: W6110248
Project ID (number): FWH03FWH03
Project ID (name): HAFB/DO WAD/HOLLOMAN/NM

Method: EPA 8081
Matrix: Solids

GTEL Sample Number	W6110248-05	W6110248-06	--	--
Client ID	SWMU132-04-4	SWMU132-05-5	--	--
Date Sampled	11/08/96	11/08/96	--	--
Date Prepared	11/13/96	11/13/96		
Date Analyzed	11/15/96	11/15/96	--	--
Dilution Factor	1.00	1.00	--	--

Analyte	Reporting Limit	Units	Concentration:Dry Weight			
alpha-BHC	1.0	ug/kg	< 1.0	< 1.0	--	--
gamma-BHC(Lindane)	1.0	ug/kg	< 1.0	< 1.0	--	--
beta-BHC	1.0	ug/kg	< 1.0	< 1.0	--	--
Heptachlor	1.0	ug/kg	< 1.0	< 1.0	--	--
delta-BHC	1.0	ug/kg	< 1.0	< 1.0	--	--
Aldrin	1.0	ug/kg	< 1.0	< 1.0	--	--
Heptachlor epoxide	1.0	ug/kg	< 1.0	< 1.0	--	--
Endosulfan I	1.0	ug/kg	< 1.0	< 1.0	--	--
4,4'-DDE	1.0	ug/kg	< 1.0	< 4.0	--	--
Dieldrin	1.0	ug/kg	< 1.0	< 8.0	--	--
Endrin	1.0	ug/kg	< 1.0	< 1.0	--	--
4,4'-DDD	1.0	ug/kg	< 1.0	< 1.0	--	--
Endosulfan II	1.0	ug/kg	< 1.0	< 1.0	--	--
4,4'-DDT	1.0	ug/kg	< 1.0	< 35.	--	--
Endrin aldehyde	1.0	ug/kg	< 1.0	< 4.0	--	--
Endosulfan sulfate	1.0	ug/kg	< 1.0	< 35.	--	--
Methoxychlor	1.0	ug/kg	< 1.0	< 1.0	--	--
Endrin ketone	1.0	ug/kg	< 1.0	< 1.0	--	--
alpha-Chlordane	1.0	ug/kg	< 1.0	**3.4**	--	--
gamma-Chlordane	1.0	ug/kg	< 1.0	< 1.0	--	--
Toxaphene	20.	ug/kg	< 20.	< 20.	--	--
PCB - Aroclor 1221	10.	ug/kg	< 10.	< 10.	--	--
PCB - Aroclor 1232	10.	ug/kg	< 10.	< 10.	--	--
PCB - Aroclor 1242 (1016)	10.	ug/kg	< 10.	< 10.	--	--
PCB - Aroclor 1248	10.	ug/kg	< 10.	< 10.	--	--
PCB - Aroclor 1254	10.	ug/kg	< 10.	< 2000	--	--
PCB - Aroclor 1260	10.	ug/kg	**15.**	**2900**	--	--
Percent Solids	--	%	84.8	84.6	--	--

Notes:

Dilution Factor:

Dilution factor indicates the adjustments made for sample dilution.

EPA 8081:

Extraction by EPA METHOD 3550 (sonication). "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW-846, Third Edition including Update 2.

W6110248-06:

Reporting limits are elevated due to interference from PCB 1260.

GTEL Client ID: FWH03FWH03 QUALITY CONTROL RESULTS
gin Number: W6110248 Organochlorine Pesticides and/or PCB
oject ID (number): FWH03FWH03 Method: EPA 8081
Project ID (name): HAFB/DO WAD/HOLLOMAN/NM Matrix: Solids

Conformance/Non-Conformance Summary

(X = Requirements Met * = See Comments -- = Not Required NA = Not Applicable)

Conformance Item	Volatile Organics	Semi-Volatile Organics	Inorganics (MT, WC)
GC/MS Tune	--	--	NA
Initial Calibration	--	--	--
Continuing Calibration	--	--	--
Surrogate Recovery	--	X	NA
Holding Time	--	X	--
Method Accuracy	--	*	--
Method Precision	--	*	--
Blank Contamination	--	X	--

Comments:
*: Indicates value(s) outside of acceptability limits. See Nonconformance Summary.

Method Accuracy

Accuracy failures for DDT are directly attributable to interference from PCB 1260. System control for DDT is demonstrated in the laboratory control sample.

GTEL Client ID: FWH03FWH03
Login Number: W6110248
Project ID (number): FWH03FWH03
Project ID (name): HAFB/DO WAD/HOLLOMAN/NM

QUALITY CONTROL RESULTS

Organochlorine Pesticides and/or PCB
Method: EPA
Matrix: Solids

Surrogate Results

QC Batch No.	Reference	Sample ID	TCMX	DCBP
Method: EPA 8081		Acceptability Limits:	37.7-126%	35.6-155%
111396PESS-1	BS111396PES	Method Blank Soil	56.5	85.0
111396PESS-2	LS111396PES	Laboratory control	64.0	77.2
111396PESS-4	MS11024801	Matrix Spike	71.6	81.2
111396PESS-5	MD11024801	Matrix Spike Dupli	72.1	75.7
--	11024801	SWMU132-SP	76.1	88.1
--	11024802	SWMU132-01-4	63.8	74.5
--	11024803	SWMU132-02-4	68.0	73.2
--	11024804	SWMU132-03-4	75.8	80.9
--	11024805	SWMU132-04-4	67.7	72.1
--	11024806	SWMU132-05-5	72.7	115.

Notes:

*: Indicates values outside of acceptability limits. See Nonconformance Summary.

Data is acceptable as long as at least one surrogate has a recovery within acceptability limits.

Acceptability limits are derived from statistical analysis of laboratory samples.

GTEL Client ID: FWH03FWH03
Origin Number: W6110248
Project ID (number): FWH03FWH03
Project ID (name): HAFB/DO WAD/HOLLOMAN/NM

QUALITY CONTROL RESULTS

Organochlorine Pesticides and/or PCB
Method: EPA 8081
Matrix: Solids

Method Blank Results

QC Batch No: 111396PESS-1
Date Analyzed: 15-NOV-96

Analyte	Method:EPA 8081	Concentration: ug/kg
alpha-BHC	< 1.00	
gamma-BHC(Lindane)	< 1.00	
beta-BHC	< 1.00	
Heptachlor	< 1.00	
delta-BHC	< 1.00	
Aldrin	< 1.00	
Heptachlor epoxide	< 1.00	
Endosulfan I	< 1.00	
4,4'-DDE	< 1.00	
Dieldrin	< 1.00	
Endrin	< 1.00	
4,4'-DDD	< 1.00	
Endosulfan II	< 1.00	
4,4'-DDT	< 1.00	
Endrin aldehyde	< 1.00	
Endosulfan sulfate	< 1.00	
Endrin ketone	< 1.00	
hoxychlor	< 1.00	
alpha-Chlordane	< 1.00	
gamma-Chlordane	< 1.00	
Toxaphene	< 20.0	
PCB - Aroclor 1221	< 10.0	
PCB - Aroclor 1232	< 10.0	
PCB - Aroclor 1242 (1016)	< 10.0	
PCB - Aroclor 1242 (1016)	< 10.0	
PCB - Aroclor 1248	< 10.0	
PCB - Aroclor 1254	< 10.0	
PCB - Aroclor 1260	< 10.0	

Notes:

GTEL Client ID: FWH03FWH03
Login Number: W6110248
Project ID (number): FWH03FWH03
Project ID (name): HAFB/DO WAD/HOLLOMAN/NM

QUALITY CONTROL RESULTS

Organochlorine Pesticides and/or PCB
Method: EPA
Matrix: Solids

Laboratory Control Sample Summary

Analyte	Spike Amount	Check Sample Concentration	QC Percent Recovery	Acceptability Limits Recovery
EPA 8081 Units:ug/L	QC Batch:111396PESS-2			
gamma-BHC(Lindane)	8.33	6.25	75.0	46-127%
Heptachlor	8.33	6.58	79.0	35-130%
Aldrin	8.33	6.16	73.9	34-132%
Dieldrin	8.33	6.56	78.8	31-134%
Endrin	8.33	8.02	96.3	42-139%
4,4'-DDT	8.33	6.17	74.1	38-127%

Notes:
*: Indicates value(s) outside of acceptability limits. See Nonconformance Summary.

GTEL Client ID: FWH03FWH03 QUALITY CONTROL RESULTS
Origin Number: W6110248 Organochlorine Pesticides and/or PCB
Project ID (number): FWH03FWH03 Method: EPA 8081
Project ID (name): HAFB/DO WAD/HOLLOMAN/NM Matrix: Solids

Matrix Spike(MS) and Matrix Spike Duplicate(MSD) Results

GTEL Sample ID:W6110248-01 MS ID:MS11024801 MSD ID:MD11024801
Analysis Date: 15-NOV-96 15-NOV-96 15-NOV-96

Units: ug/kg	Sample	Spikes Added		MS	MS	MSD	MSD		Acceptability Limits	
Analyte	Conc.	MS	MSD	Conc.	% Rec.	Conc.	% Rec.	RPD	RPD	%Rec.
gamma-BHC(Lindane)	< 1.00(0.000)	8.16	8.24	6.95	85.2	6.95	84.3	1.10	15	46-127
Heptachlor	< 1.00(0.105)	8.16	8.24	8.13	98.3	8.39	101.	2.70	20	35-130
Aldrin	< 1.00(0.332)	8.16	8.24	6.86	80.0	6.78	78.3	2.10	22	34-132
Dieldrin	< 1.00(0.000)	8.16	8.24	8.14	99.8	7.98	96.8	3.10	18	31-134
Endrin	< 1.00(0.356)	8.16	8.24	7.68	89.8	7.45	86.1	4.20	21	42-139
4,4'-DDT	361. (361.)	8.16	8.24	312.	-600.*	241.	-1460*	83.5*	27	38-127

Notes:
Values in parentheses in the sample concentration column are used for % recovery calculations.
The spike recovery data may not be representative of the accuracy of the method or demonstrate true matrix interferences due to the ratio of background to spike amount.

*: Indicates value(s) outside of acceptability limits. See Nonconformance Summary.
111396PESS-4: Accuracy failures for DDT are directly attributable to interference from PCB 1260. System control for DDT is demonstrated in the laboratory control sample.

Foster Wheeler Environmental Corporation

Chain-of-Custody Record # 0000132

AFID:	Project:	Sample Date:
HOLMN	D011WAD3	01-14-97

Method Type:	Samplers:
—	D. Rizzuto

Location Type	Location Identification	Time (Military Standard)	Sample Depth (feet)	HNO_3	H_2SO_4	NaOH	ZnAcetate/NaOH	Sampling Method	No. of Containers	VOCs	SVOCs	Pest/PCBs	Explosives	TRPH	ICP Metals	Arsenic	Lead	Selenium	Thallium	Mercury	TOC	CEC	Atterberg Limits	Grain Size	Methane	* See Remarks			Sample Tag Number
	SWMU132SP	10:30	—																							X			

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
[signature]	01/14/97 1400		
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time

LABORATORY USE ONLY	Y	N
Package Received / Custody Seals Intact		
Sample Labels / COCs Agree		
Temperature within Specification _____C°		
Corrected Copy Attached		
Problems or Discrepancies		

Remarks: *Analyze per John Hudgens 1-800-392-3634 EXT 29
WCD# 13213
~~FEDERAL EXPRESS~~ #: DHL # 7820974486

MATRIX:
LABCODE
LOGCODE:

oster Wheel
nvironmental Corporation

Chain-of-Custody Record # 0000132

FIID:	Project:	Sample Date:
HOLMN	D011WAD3	01-14-97

ethod Type:	Samplers:
—	D. Rizzuto

ocation Type	Location Identification	Time (Military Standard)	Sample Depth (feet)	HNO3	H2SO4	NaOH	ZnAcetate/NaOH	Sampling Method	No. of Containers	VOCs	SVOCs	Pest/PCBs	Explosives	TRPH	ICP Metals	Arsenic	Lead	Selenium	Thallium	Mercury	TOC	CEC	Atterberg Limits	Grain Size	Methane	* See Remarks			Sample Tag Number
	SWMU132SP	10:30	—																							X			

ellinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
[signature]	01/14/97 1400		
ellinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
ellinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time

LABORATORY USE ONLY	Y	N
Package Received / Custody Seals Intact		
Sample Labels / COCs Agree		
Temperature within Specification _____C°		
Corrected Copy Attached		
Problems or Discrepancies		

emarks: *Analyze per John Hudgens 1-800-392-3634 EXT 29
JCD#13213
~~POSTAL EXPRESS~~ #: DHL # 7820974486

MATRIX:
LABCODE:
LOGCODE:

DHL WORLDWIDE EXPRESS

Shipment Airwaybill

(Non negotiable)

1-800-CALL-DHL *in USA only*

7820974486

Quote this shipment number in an inquiry

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Complete sections 1-5. You are making 5 copies, please type

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Account no. 857550125

Shipper's reference

Company name: Foster Wheeler

Shipper's name: Dan Holmquist

Address: 241 ARKANSAS ST, BH R.V. STORAGE, Holloman AFB NM,

Zip code (required): 88330

Phone/Fax/Telex *circle one* 505-479-2668

2 To (Recipient)

Company name: Highway 36 Land Development Co.

Attention: Laboritory Manager.

Delivery address *DHL cannot deliver to a PO Box*: 108555 East Highway 36, Deer Trail, Colo.

Zip/Postcode (required): 80105

Phone/Fax/Telex *circle one*

3 Shipment details

Services

- [x] U.S. DOMESTIC
- [ ] INTERNATIONAL DOCUMENT
- [ ] INTERNATIONAL NON DOCUMENT
- [ ] WORLDMAIL 1st / APM / 2nd *circle one*

Special Services *extra charges may apply*

- [ ] SATURDAY DELIVERY
- [ ] POD *shipper's instructions for POD (optional)*
- [ ] OTHER *specify*

Payment Options *not all options available to all countries*

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- [ ] Recipient
- [ ] Third party

Acct. No.

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No.

Expires ..... Type .....

Shipment Insurance *if desired, enter amount below*

U.S. $ ..... *Insured value*

Full description of contents

Soil Samples,
(SWMU 132)
(COC #0000132) (WCD 13213)

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Attach original and three copies of a Commercial Invoice

Declared value for customs (in US $).

Export license no./Symbol *if applicable*

Harmonized Sched. B no. *if applic.*

Ultimate destination

Shipper's EIN/SSN

This shipment is licensed by the U.S. for the ultimate destination named above. Diversion contrary to U.S. Law is prohibited.

Destination duties/taxes *if left blank recipient pays duties/taxes*

- [ ] Recipient
- [ ] Shipper
- [ ] Other ..... *Specify destination approved account number*

4 Pcs/Weight/Size

No. of pieces: 1

Weight *if DHL Express Document packaging is used, enter XD*: 40# lb

Dimensions *in inches*: 1 x 1 x 2 (length x width x height)

DIMENSIONAL/CHARGED WEIGHT

CODES | CHARGES | Services

Drop Box/Exp. Centre

TOTAL

TRANSPORT COLLECT STICKER No.

PICKED UP BY

Time

Date

5 Shipper's authorization and signature

I/we agree that DHL's standard terms apply to this shipment and limit DHL's liability for loss or damage to U.S. $ 100. The Warsaw Convention may also apply (see reverse). I/we authorize DHL to complete other documents necessary to export this shipment. I/we understand that insurance is available on request, for an extra charge. I/we agree to pay all charges if the recipient or third party does not pay. I/we understand that DHL DOES NOT TRANSPORT CASH.

Signature

Date 01/14/97

DHL AIRWAYS, INC. • 333 TWIN DOLPHIN DRIVE, REDWOOD CITY, CA 94065 • Original/DHL Billing/Copy

AT&T Global Information Solutions

HIGHWAY 36 LAND DEVELOPMENT COMPANY

WCD Control Number: 13213
Product Code:
Waste Code:
Original WCD Assigned As:
INTERNAL USE ONLY!

WASTE CHARACTERIZATION DATA SHEET

Please Refer To Instructions While Completing This Form

Highway 36 Land Development Company
108555 E. Highway 36
Deer Trail, CO 80105

1. GENERAL INFORMATION

a) Generator's Name: Holloman Air Force Base
b) Facility Address: 550 Tabosa Ave
Holloman AFB New Mexico
c) Zip Code: 88330-8458
d) Technical Contact: Warren Neff
e) Title: Restoration Program Manager
f) Telephone Number: (505) 475-3931
g) After Hours Telephone: (505) 434-8889
h) Telecopy (FAX) Number: (505) 475-7015
i) EPA Generator No.: N M 6 5 7 2 1 2 4 4 2 2
j) State Registration No.:
k) SIC Code: 9 7 1 1

2. BILLING ADDRESS

a) Mail Highway 36 Land Development Company Invoices To: ( ) Generating Facility (lb above) OR:
b) Company Name:
c) Telephone: ( ) .
d) Address:
e) Zip Code:
f) Attention:

3. GENERAL WASTE INFORMATION

a) Name of Waste: Soil IRP site OT16
b) Process Generating Waste: Site remediation
c) Is this a U.S. EPA "Hazardous Waste" as defined by 40 CFR 261 (X) NO ( ) YES
d) If yes, U.S. EPA Hazardous Waste Code(s) are:
e) Is this waste a State "Hazardous Waste"? (X) NO ( ) YES
f) If yes, indicate the State Hazardous Waste Code(s)

Rev. 4/12/90

4. **LAND DISPOSAL RESTRICTION INFORMATION - 40 CFR 268**
(Complete this Section only if item 3c is answered yes.)

	NO	YES	
a)	[X]	[ ]	Is the waste currently impacted by any land disposal restrictions/prohibitions under 40 CFR 268? (If yes, complete and attach LDR shipment notice. If no, go to section 5.)
b)	[X]	[ ]	Is the waste generated by a conditionally exempt small-quantity generator as defined by 40 CFR 261.5? (If yes, complete and attach LDR shipment notice indicating the exemption.)
[redacted]			
d)	[ ]	[X]	Does the waste material result from a section 104 or 106 CERCLA response action or a RCRA corrective action?

California List Restrictions

[redacted]

f)	[X]	[ ]	Is the waste impacted by California List Restrictions? (If yes, indicate the applicable restrictions below. [ ] pH ≤ 2 [ ] Metals [ ] Cyanides [ ] HOCs [ ] PCBs (If yes, indicate actual concentration in section 7-a.)

5. **REACTIVITY CHARACTERISTICS**

Indicate if this waste is any of the following:

[X] NO [ ] YES Water Reactive	[X] NO [ ] YES Air reactive	[X] NO [ ] YES Acid Reactive	[X] NO [ ] YES Explosive
[X] NO [ ] YES Alkaline Reactive	[X] NO [ ] YES Autopolymerizable	[X] NO [ ] YES Shock Sensitive	[X] NO [ ] YES Thermally Sensitive

6. **WASTE PROPERTIES AT AMBIENT TEMPERATURES (i.e. 25° C)**

a) Physical State:
[X] Solid [ ] Semi-Solid
[ ] Liquid [ ] Powder
[ ] Other _____

b) Free Liquids:
[X] No
[ ] Yes

c) [ ] Density (Range) _____ - _____
OR: [ ] Specific Gravity (Range) _____ - _____
Units: [ ] lbs./cu.yd. [ ] lbs./gallon [ ] Other _____

d) Vapor Pressure:
[ ] < 78 mm Hg
[ ] ≥ 78 mm Hg

e) Layers:
[ ] Single Phase
[ ] Bi-Layered
[ ] Multi-Layered
Indicate Number ____

Description of Layers. Range
Top _____ and % _____
Middle _____ and % _____
Bottom _____ and % _____

f) Color(s) _____

g) Liquid Flash Point: (Class 1) [ ] < 75°F [ ] 75° 99°F (Class 2) [ ] 100° 139°F (Class 3) [ ] 140° 199°F [ ] ≥ 200°F
[√] None [ ] Close Cup Method (as per ASTM Methods) OR [ ] Open Cup Method (as per ASTM Methods)

h) pH: [ ] ≤ 2 [ ] 2.1-4 [ ] 4 - 7
[ ] 7-10 [ ] 10-12.4 [ ] ≥ 12.5
[ ] Range ____ - ____ [X] N/A

i) BTU Values: _____ BTU/lb
Percent of Ash: _____ %
Contains Sulfur [ ] NO [ ] YES
Contains Halogens [ ] NO [ ] YES
"NON-LANDFILLABLE" COMPLETE FOR OIL/SOLVENT ONLY

j) Viscosity: [ ] Low < 200 cps
[ ] Medium 200-400 cps
[ ] High > 400 cps
"NON-LANDFILLABLE" COMPLETE FOR OIL/SOLVENT ONLY

13213

C. COMPLETE WASTE COMPOSITION — Total in the maximum columns must be greater than or equal to 100 percent

a) Waste Composition

Components	Range Min.	Range Max.	Components	Range Min.	Range Max.
4,4' DDT 410 PPB		to %			to %
		to %			to %
		to %			to %
		to %			to %

b) Indicate if this waste contains any of the following metals, organic compounds, herbicides, pesticides or insecticides.

DATA REPRESENTS: [ ] TCLP or [ ] TOTAL

Compound	Less Than (Parts Per Million)	Or Actual	Compound:	Less Than (Parts Per Million)	Or Actual
Arsenic	[ ] < 5		Benzene	[ ] < 0.5	
Barium	[ ] < 100		Carbon tetrachloride	[ ] < 0.5	
Cadmium	[ ] < 1		Chlordane	[ ] < 0.03	
Chromium - Hex	[ ] < 5		Chlorobenzene	[ ] < 100.0	
Chromium - Tri	[ ] < 5		Chloroform	[ ] < 6.0	
Lead	[ ] < 5		Tetrachloroethylene	[ ] < 0.7	
Mercury	[ ] < 0.2		Trichloroethylene	[ ] < 0.5	
Selenium	[ ] < 1		Cresol	[ ] < 200.0	
Silver	[ ] < 5		o-Cresol	[ ] < 200.0	
			m-Cresol	[ ] < 200.0	
Heptachlor	[ ] < 0.008		p-Cresole	[ ] < 200.0	
Hexachlorobenzene	[ ] < 0.13		1,4 Dichlorobenzene	[ ] < 7.5	
Hexachlorobutadiene	[ ] < 0.5		1,2 Dichlorethane	[ ] < 0.5	
Hexachloroethane	[ ] < 3.0		1,1 Dichloroethylene	[ ] < 0.7	
Methyl Ethyl Ketone	[ ] < 200.0		2,4 Dinitrotoluene	[ ] < 0.13	
Nitrobenzene	[ ] < 2.0		Endrin	[ ] < 0.02	
Pentachlorophenol	[ ] < 100.0		Lindane	[ ] < 0.4	
Pyridine	[ ] < 5.0		Methoxychlor	[ ] < 10.0	
2,4,5Trichlorophenol	[ ] < 400.0		Toxaphene	[ ] < 0.5	
2,4,6Trichlorophenol	[ ] < 2.0		2,4 - D	[ ] < 10.0	
Vinyl Chloride	[ ] < 0.2		2,4,5 TP (Silvex)	[ ] < 1.0	
Heptachlor Epoxide	[ ] < 0.008				

c) Indicate if waste contains any of the following and if YES, indicate type and concentration in Section 7a of this WCD.

	NO	YES		NO	YES
Free Cyanide	[X]	[ ]	Free Ammonia	[X]	[ ]
Free Sulfide	[X]	[ ]	Pesticides	[ ]	[X]
Dioxins	[X]	[ ]	Oils	[X]	[ ]
Infectious	[X]	[ ]	Absorbents	[X]	[ ]
Hexachlorocyclopentadiene	[X]	[ ]	Radioactive Material	[X]	[ ]

Poly Chlorinated Biphenyls: [X] NO [ ] YES
Is the waste PCB regulated under 40 CFR 761, or is PCB concentration ≥ 50 ppm?

E. MANIFEST INFORMATION

a) Is this a U.S. DOT Hazardous Material(s)? [X] NO [ ] YES

b) Proper U.S. DOT Shipping Name: _____

c) U.S. DOT Hazard Class: _____

d) UN or NA Number: UN _____ or NA _____

e) CERCLA Reportable Quantity (RQ) _____ [ ] lbs. [ ] kgs.

f) To be transported in: [X] Bulk [ ] Drum (type/size) _____ [ ] Other (specify) _____

g) Anticipated Shipping Volume _____

h) Units: [ ] Cubic yards [ ] Tons [ ] Gallons [ ] Other _____

i) [ ] Per Month [ ] Per Year

j) Special handling instructions: _____

Required Personal Protective Equipment _____

9. REPRESENTATIVE SAMPLE AND SAMPLE CERTIFICATION:

Sample Included: [ ] NO [ ] YES

ALL REPRESENTATIVE SAMPLES MUST BE ACCOMPANIED BY A COPY OF THE WCD.

a) Sample is to be obtained by the person representing the Generator. DO NOT COLLECT OR FORWARD SAMPLES THAT ARE RADIOACTIVE, SHOCK SENSITIVE, EXPLOSIVE, OR PYROPHORIC!

b) Location of Sampling:

1) [ ] Drum 2) [ ] Pond 3) [ ] Pit 4) [ ] Tank 5) [ ] Other _____

Date Sampled: _____ Time Sampled: _____ [ ] am [ ] pm

c) Sampling Method:

1. [ ] I have obtained a representative sample of the waste material described in the above Waste Characterization Data Sheet, and have sampled such waste from the location described above and in accordance with sampling methods described in 40 CFR 261 - Appendix I.

2. [ ] I have obtained a representative sample of the waste material described in the above Waste Characterization Data Sheet, and have sampled such waste from the location described above and using methods equivalent to sampling methods described in 40 CFR 261 - Appendix I.

d) SAMPLE LABEL — COMPLETE LABEL BEFORE REMOVING

REMOVE TOP LABEL AND APPIX TO SAMPLE CONTAINER

1) 13213
WCD Control Number

2) _____
Generator's Company Name

3) _____
Description of Sample

4) _____
Print Sampler's Name

5) _____
Sampler's Signature

6) _____
Sampler's Title

7) _____
Telephone Number

8) _____
Sampler's Employer
(If Highway 36 LDC or third party, Complete Witness Information)

e) SAMPLING AUTHORIZATION (Complete only if sample is not obtained by the generator.)

I (the Generator) have authorized Highway 36 Land Development Company, or another third party, to perform the sample event described above and I was personally present to ensure that the appropriate waste source was sampled. I also verify that the information provided above is accurate.

1) _____ Generator's Signature 2) _____ Printed Generator's Name 3) _____ Generator's Title

10. SUPPLEMENTAL INFORMATION ATTACHED: [ ] NO [ ] YES Number of Pages _____

11. GENERATOR CERTIFICATION:

I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition or properties exist, and that all knowledge of suspected hazards have been disclosed.

DATE	SIGNATURE	TITLE	INITIALS

12. THIS SECTION IS FOR REGULATORY AGENCY DOCUMENTATION:

a) Approval Status: [ ] Acceptable [ ] Approval Withheld [ ] Disapproved

b) Reasons or Special Conditions for Approval Status:

ANALYTICAL RESULTS
Flashpoint

GTEL Client ID: FWH03FWH03
Login Number: W6110248
Project ID (number): FWH03FWH03
Project ID (name): HAFB/DO WAD/HOLLOMAN/NM

Method: ASTM D93
Matrix: Solids

GTEL Sample Number	W6110248-01	--	--	--
Client ID	SWMU132-SP	--	--	--
Date Sampled	11/08/96	--	--	--
Date Analyzed	11/14/96	--	--	--
Dilution Factor	1.00	--	--	--

Analyte	Reporting Limit	Units	Concentration:Wet Weight			
Flashpoint (Closed Cup)	70.0	degrees F	>200	--	--	--
Percent Solids	--	%	87.7	--	--	--

Notes:

Dilution Factor:

Dilution factor indicates the adjustments made for sample dilution.

ASTM D93:

Annual Book of ASTM Standards, 1983 Revision.

ANALYTICAL RESULTS
Organochlorine Pesticides and/or PCB's

Client ID: FWH03FWH03
n Number: W6110248
ject ID (number): FWH03FWH03
ject ID (name): HAFB/DO WAD/HOLLOMAN/NM

Method: EPA 8081
Matrix: Solids

GTEL Sample Number	W6110248-01	W6110248-02	W6110248-03	W6110248-04
Client ID	SWMU132-SP	SWMU132-01-4	SWMU132-02-4	SWMU132-03-4
Date Sampled	11/08/96	11/08/96	11/08/96	11/08/96
Date Prepared	11/13/96	11/13/96	11/13/96	11/13/96
Date Analyzed	11/15/96	11/15/96	11/15/96	11/15/96
Dilution Factor	1.00	1.00	1.00	1.00

Analyte	Reporting Limit	Units	Concentration:Dry Weight

Notes: (continued)

Reporting limits are elevated due to interference from PCB 1260.

W6110248-03:

Reporting limits are elevated due to interference from PCB 1260.

W6110248-04:

Reporting limit is elevated due to interference from PCB 1260.

ANALYTICAL RESULTS
Organochlorine Pesticides and/or PCB's

. Client ID: FWH03FWH03
,in Number: W6110248
oject ID (number): FWH03FWH03
roject ID (name): HAFB/DO WAD/HOLLOMAN/NH

Method: EPA 8081
Matrix: Solids

GTEL Sample Number			W6110248-01	W6110248-02	W6110248-03	W6110248-04
Client ID			SWMU132-SP	SWMU132-01-4	SWMU132-02-4	SWMU132-03-4
Date Sampled			11/08/96	11/08/96	11/08/96	11/08/96
Date Prepared			11/13/96	11/13/96	11/13/96	11/13/96
Date Analyzed			11/15/96	11/15/96	11/15/96	11/15/96
Dilution Factor			1.00	1.00	1.00	1.00
Analyte	Reporting Limit	Units	Concentration:Dry Weight			
alpha-BHC	1.0	ug/kg	< 1.0	< 1.0	< 1.0	< 1.0
gamma-BHC(Lindane)	1.0	ug/kg	< 1.0	< 1.0	< 1.0	< 1.0
beta-BHC	1.0	ug/kg	< 1.0	< 1.0	< 1.0	< 1.0
Heptachlor	1.0	ug/kg	< 1.0	< 1.0	< 1.0	< 1.0
delta-BHC	1.0	ug/kg	< 1.0	< 1.0	< 1.0	< 1.0
Aldrin	1.0	ug/kg	< 1.0	< 1.0	< 1.0	< 1.0
Heptachlor epoxide	1.0	ug/kg	< 1.0	1.5	< 1.0	< 1.0
Endosulfan I	1.0	ug/kg	< 1.0	< 1.0	< 1.0	< 1.0
4,4'-DDE	1.0	ug/kg	< 6.0	< 15.	< 1.0	< 1.0
Dieldrin	1.0	ug/kg	< 1.0	< 1.0	< 1.0	< 1.0
Endrin	1.0	ug/kg	< 1.0	2.8	< 1.0	< 1.0
4,4'-DDD	1.0	ug/kg	< 1.0	< 1.0	< 1.0	< 1.0
Endosulfan II	1.0	ug/kg	< 1.0	< 1.0	< 1.0	< 1.0
4,4'-DDT	1.0	ug/kg	410	< 25.	< 3.0	< 1.0
Endrin aldehyde	1.0	ug/kg	< 5.0	< 6.0	< 8.0	< 3.0
Endosulfan sulfate	1.0	ug/kg	< 40.	< 10.	< 1.0	< 1.0
Methoxychlor	1.0	ug/kg	< 1.0	< 1.0	< 1.0	< 1.0
Endrin ketone	1.0	ug/kg	< 1.0	< 1.0	< 1.0	< 1.0
alpha-Chlordane	1.0	ug/kg	4.1	6.7	1.6	< 1.0
gamma-Chlordane	1.0	ug/kg	< 1.0	2.0	1.8	< 1.0
Toxaphene	20	ug/kg	< 20	< 20	< 20	< 20
PCB - Aroclor 1221	10.	ug/kg	< 10.	< 10.	< 10.	< 10.
PCB - Aroclor 1232	10.	ug/kg	< 10	< 10	< 10	< 10
PCB - Aroclor 1242 (1016)	10.	ug/kg	< 10.	< 10.	< 10.	< 10.
PCB - Aroclor 1248	10	ug/kg	< 10	< 10	< 10	< 10
PCB - Aroclor 1254	10.	ug/kg	< 2500	< 1000	< 60.	< 10.
PCB - Aroclor 1260	10	ug/kg	3100	1300	90	22
Percent Solids	--	%	87.7	81.0	74.7	82.9

Notes:

Dilution Factor:

Dilution factor indicates the adjustments made for sample dilution.

EPA 8081:

Extraction by EPA METHOD 3550 (sonication). "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW-846, Third Edition including Update 2.

W6110248-01:

Reporting limits are elevated due to interference from PCB 1260.

W6110248-02:

NEI/GTEL Wichita, KS
W6110248

ANALYTICAL RESULTS
Total Petroleum Hydrocarbons

GTEL Client ID: FWH03FWH03
Login Number: W6110248
Project ID (number): FWH03FWH03
Project ID (name): HAFB/DO WAD/HOLLOMAN/NM

Method: EPA 418.1
Matrix: Solids

GTEL Sample Number		W6110248-01	W6110248-02	W6110248-03	W6110248-04
Client ID		SWMU132-SP	SWMU132-01-4	SWMU132-02-4	SWMU132-03-4
Date Sampled		11/08/96	11/08/96	11/08/96	11/08/96
Date Prepared		11/15/96	11/15/96	11/15/96	11/15/96
Date Analyzed		11/15/96	11/15/96	11/15/96	11/15/96
Dilution Factor		1.00	1.00	1.00	1.00
Analyte	Reporting Limit / Units	Concentration:Dry Weight			
Total Petroleum Hydrocarbons	20 mg/kg	38	< 20	< 20	< 20
Percent Solids	-- %	87.7	81.0	74.7	82.9

Notes:

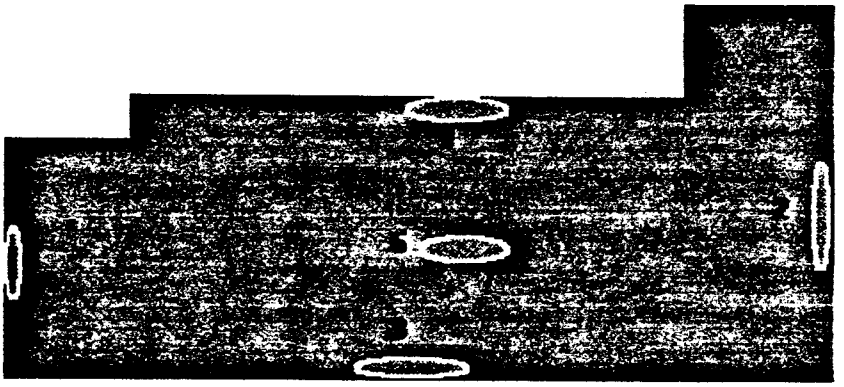
Dilution Factor:

Dilution factor indicates the adjustments made for sample dilution.

EPA 418.1:

Extraction is modified for soils by using EPA Method 9071 (soxhlet extraction). "Methods for Chemical Analysis of Water and Wastes", EPA 600/4-79-020. USEPA EMSL, Cincinnati, OH, Revised, March 1983.

SWMU 132
SAMPLE LOCATIONS



SWMU-132-1-4
SWMU-132-2-4
SWMU-132-3-4
SWMU-132-4-4
SWMU-132-5-5

NEI/GTEL
ENVIRONMENTAL LABORATORIES, INC.

Midwest Region
4211 May Avenue
Wichita, KS 67209
(316) 945-2624
(800) 633-7936
(316) 945-0506 (FAX)

December 31, 1996

Dan Holmquist
Foster Wheeler Environmental Corporation
241 Arkansas St. /Behind Rv Storage
Holloman A F B, NM 88330

RE:	GTEL Client ID:	FWH03FWH03
	Login Number:	W6120390
	Project ID (number):	DOIIWAD3 T38-LTO
	Project ID (name):	HAFB/DO WAD/HOLLOMAN/NM

Dear Dan Holmquist:

Enclosed please find the analytical results for the samples received by GTEL Environmental Laboratories, Inc. on 12/21/96 under Chain-of-Custody Number(s) 47161.

A formal Quality Assurance/Quality Control (QA/QC) program is maintained by GTEL, which is designed to meet or exceed the EPA requirements. Analytical work for this project met QA/QC criteria unless otherwise stated in the footnotes. This report is to be reproduced only in full.

NEI/GTEL is certified by the U.S. Army Corp of Engineers Laboratory Validation, expiration date March 18, 1997.

If you have any questions regarding this analysis, or if we can be of further assistance, please call our Customer Service Representative.

Sincerely,
GTEL Environmental Laboratories, Inc.

Customer Service Manager

Terry R. Loucks
Laboratory Director

RECEIVED JAN 0 3 1997

ANALYTICAL RESULTS
Organochlorine Pesticides and/or PCB's

GTEL Client ID: FWH03FWH03
gin Number: W6120390
roject ID (number): DOIIWAD3 T38-LTO
Project ID (name): HAFB/DO WAD/HOLLOMAN/NM

Method: EPA 8081
Matrix: Solids

GTEL Sample Number	W6120390-06	W6120390-07	W6120390-08	W6120390-09
Client ID	SWMU132-01-4	SWMU132-02-4	SWMU132-03-4	SWMU132-04-4
Date Sampled	12/19/96	12/19/96	12/19/96	12/19/96
Date Prepared	12/23/96	12/23/96	12/23/96	12/23/96
Date Analyzed	12/27/96	12/27/96	12/27/96	12/27/96
Dilution Factor	1.00	1.00	1.00	1.00

Analyte	Reporting Limit	Units	Concentration:Dry Weight			
alpha-BHC	1.0	ug/kg	< 1.0	< 1.0	< 1.0	< 1.0
gamma-BHC(Lindane)	1.0	ug/kg	< 1.0	< 1.0	< 1.0	< 1.0
beta-BHC	1.0	ug/kg	< 1.0	< 1.0	< 1.0	< 1.0
Heptachlor	1.0	ug/kg	< 1.0	< 1.0	< 1.0	< 1.0
delta-BHC	1.0	ug/kg	< 1.0	< 1.0	< 1.0	< 1.0
Aldrin	1.0	ug/kg	< 1.0	< 1.0	< 1.0	< 1.0
Heptachlor epoxide	1.0	ug/kg	< 1.0	< 1.0	< 1.0	< 1.0
Endosulfan I	1.0	ug/kg	< 1.0	< 1.0	< 1.0	< 1.0
4,4'-DDE	1.0	ug/kg	< 1.0	< 1.0	< 1.0	< 1.0
Dieldrin	1.0	ug/kg	< 1.0	< 1.0	< 1.0	< 1.0
Endrin	1.0	ug/kg	< 1.0	< 1.0	< 1.0	< 1.0
4,4'-DDD	1.0	ug/kg	< 1.0	< 1.0	< 1.0	< 1.0
ndosulfan II	1.0	ug/kg	< 1.0	< 1.0	< 1.0	< 1.0
4'-DDT	1.0	ug/kg	< 1.0	< 1.0	< 1.0	< 1.0
Endrin aldehyde	1.0	ug/kg	< 1.0	< 1.0	< 1.0	< 1.0
Endosulfan sulfate	1.0	ug/kg	< 1.0	< 1.0	< 1.0	< 1.0
Methoxychlor	1.0	ug/kg	< 1.0	< 1.0	< 1.0	< 1.0
Endrin ketone	1.0	ug/kg	< 1.0	< 1.0	< 1.0	< 1.0
alpha-Chlordane	1.0	ug/kg	< 1.0	< 1.0	< 1.0	< 1.0
gamma-Chlordane	1.0	ug/kg	< 1.0	< 1.0	< 1.0	< 1.0
Toxaphene	20.	ug/kg	< 20.	< 20.	< 20.	< 20.
PCB - Aroclor 1221	10.	ug/kg	< 10.	< 10.	< 10.	< 10.
PCB - Aroclor 1232	10.	ug/kg	< 10.	< 10.	< 10.	< 10.
PCB - Aroclor 1242 (1016)	10.	ug/kg	< 10.	< 10.	< 10.	< 10.
PCB - Aroclor 1248	10.	ug/kg	< 10.	< 10.	< 10.	< 10.
PCB - Aroclor 1254	10.	ug/kg	< 10.	< 10.	< 10.	< 10.
PCB - Aroclor 1260	10.	ug/kg	< 10.	< 10.	< 10.	< 10.

Notes:

Dilution Factor:

Dilution factor indicates the adjustments made for sample dilution.

EPA 8081:

Extraction by EPA METHOD 3550 (sonication). "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW-846, Third Edition including Update 2.

ANALYTICAL RESULTS
Organochlorine Pesticides and/or PCB's

GTEL Client ID: FWH03FWH03
Login Number: W6120390
Project ID (number): DOIIWAD3 T38-LTO
Project ID (name): HAFB/DO WAD/HOLLOMAN/NM

Method: EPA 8081
Matrix: Solids

GTEL Sample Number	W6120390-10	--	--	--
Client ID	SWMU132-05-5	--	--	--
Date Sampled	12/19/96	--	--	--
Date Prepared	12/23/96			
Date Analyzed	12/27/96	--	--	--
Dilution Factor	1.00	--	--	--

Analyte	Reporting Limit	Units	Concentration:Dry Weight			
alpha-BHC	1.0	ug/kg	< 1.0	--	--	--
gamma-BHC(Lindane)	1.0	ug/kg	< 1.0	--	--	--
beta-BHC	1.0	ug/kg	< 1.0	--	--	--
Heptachlor	1.0	ug/kg	< 1.0	--	--	--
delta-BHC	1.0	ug/kg	< 1.0	--	--	--
Aldrin	1.0	ug/kg	< 1.0	--	--	--
Heptachlor epoxide	1.0	ug/kg	< 1.0	--	--	--
Endosulfan I	1.0	ug/kg	< 1.0	--	--	--
4,4'-DDE	1.0	ug/kg	< 1.0	--	--	--
Dieldrin	1.0	ug/kg	< 1.0	--	--	--
Endrin	1.0	ug/kg	< 1.0	--	--	--
4,4'-DDD	1.0	ug/kg	< 1.0	--	--	--
Endosulfan II	1.0	ug/kg	< 1.0	--	--	--
4,4'-DDT	1.0	ug/kg	< 1.0	--	--	--
Endrin aldehyde	1.0	ug/kg	< 1.0	--	--	--
Endosulfan sulfate	1.0	ug/kg	< 1.0	--	--	--
Methoxychlor	1.0	ug/kg	< 1.0	--	--	--
Endrin ketone	1.0	ug/kg	< 1.0	--	--	--
alpha-Chlordane	1.0	ug/kg	< 1.0	--	--	--
gamma-Chlordane	1.0	ug/kg	< 1.0	--	--	--
Toxaphene	20.	ug/kg	< 20.	--	--	--
PCB - Aroclor 1221	10.	ug/kg	< 10.	--	--	--
PCB - Aroclor 1232	10.	ug/kg	< 10.	--	--	--
PCB - Aroclor 1242 (1016)	10.	ug/kg	< 10.	--	--	--
PCB - Aroclor 1248	10.	ug/kg	< 10.	--	--	--
PCB - Aroclor 1254	10.	ug/kg	< 10.	--	--	--
PCB - Aroclor 1260	10.	ug/kg	< 10.	--	--	--

Notes:

Dilution Factor:

Dilution factor indicates the adjustments made for sample dilution.

EPA 8081:

Extraction by EPA METHOD 3550 (sonication). "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW-846, Third Edition including Update 2.

GTEL Client ID: FWH03FWH03 QUALITY CONTROL RESULTS
Login Number: W6120390 Organochlorine Pesticides and/or PCB
Project ID (number): DOIIWAD3 T38-LTO Method: EPA 8081
Project ID (name): HAFB/DO WAD/HOLLOMAN/NM Matrix: Solids

Conformance/Non-Conformance Summary

(X = Requirements Met * = See Comments -- = Not Required NA = Not Applicable)

Conformance Item	Volatile Organics	Semi-Volatile Organics	Inorganics (MT, WC)
GC/MS Tune	--	--	NA
Initial Calibration	--	--	--
Continuing Calibration	--	--	--
Surrogate Recovery	--	X	NA
Holding Time	--	X	--
Method Accuracy	--	*	--
Method Precision	--	*	--
Blank Contamination	--	X	--

Comments:
*: Indicates value(s) outside of acceptability limits. See Nonconformance Summary.

GTEL Client ID: FWH03FWH03
Login Number: W6120390
Project ID (number): DOIIWAD3 T38-LTO
Project ID (name): HAFB/DO WAD/HOLLOMAN/NM

QUALITY CONTROL RESULTS

Organochlorine Pesticides and/or PCB
Method: EPA
Matrix: Soil

Surrogate Results

QC Batch No.	Reference	Sample ID	TCMX	DCBP
Method: EPA 8081		Acceptability Limits:	37.7-126%	35.6-155%
122396PESS-1	BS122396PES	Method Blank Soil	70.7	80.4
122396PESS-2	LS122396PES	Laboratory control	70.9	80.9
122396PESS-4	MS12039010	Matrix Spike	64.6	85.6
122396PESS-5	MD12039010	Matrix Spike Dupli	58.6	79.9
--	12039006	SWMU132-01-4	72.4	79.5
--	12039007	SWMU132-02-4	71.0	81.9
--	12039008	SWMU132-03-4	72.3	86.1
--	12039009	SWMU132-04-4	71.6	85.0
--	12039010	SWMU132-05-4	68.7	82.1

Notes:

*: Indicates values outside of acceptability limits. See Nonconformance Summary.

Data is acceptable as long as at least one surrogate has a recovery within acceptability limits.

Acceptability limits are derived from statistical analysis of laboratory samples.

GTEL Client ID: FWH03FWH03 QUALITY CONTROL RESULTS
Login Number: W6120390 Organochlorine Pesticides and/or PCB
oject ID (number): DOIIWAD3 T38-LTO Method: EPA 8081
Project ID (name): HAFB/DO WAD/HOLLOMAN/NM Matrix: Solids

Method Blank Results

QC Batch No: 122396PESS-1
Date Analyzed: 27-DEC-96

Analyte	Method:EPA 8081	Concentration: ug/kg
alpha-BHC	< 1.00	
gamma-BHC(Lindane)	< 1.00	
beta-BHC	< 1.00	
Heptachlor	< 1.00	
delta-BHC	< 1.00	
Aldrin	< 1.00	
Heptachlor epoxide	< 1.00	
Endosulfan I	< 1.00	
4,4'-DDE	< 1.00	
Dieldrin	< 1.00	
Endrin	< 1.00	
4,4'-DDD	< 1.00	
Endosulfan II	< 1.00	
4,4'-DDT	< 1.00	
Endrin aldehyde	< 1.00	
Endosulfan sulfate	< 1.00	
Endrin ketone	< 1.00	
thoxychlor	< 1.00	
pha-Chlordane	< 1.00	
gamma-Chlordane	< 1.00	
Toxaphene	< 20.0	
PCB - Aroclor 1221	< 10.0	
PCB - Aroclor 1232	< 10.0	
PCB - Aroclor 1242 (1016)	< 10.0	
PCB - Aroclor 1242 (1016)	< 10.0	
PCB - Aroclor 1248	< 10.0	
PCB - Aroclor 1254	< 10.0	
PCB - Aroclor 1260	< 10.0	

Notes:

GTEL Client ID: FWH03FWH03
Login Number: W6120390
Project ID (number): DOIIWAD3 T38-LTO
Project ID (name): HAFB/DO WAD/HOLLOMAN/NM

QUALITY CONTROL RESULTS

Organochlorine Pesticides and/or PCB
Method: EPA
Matrix: Soil

Laboratory Control Sample Summary

Analyte	Spike Amount	Check Sample Concentration	QC Percent Recovery	Acceptability Limits Recovery
EPA 8081 Units:ug/L	QC Batch:122396PESS-2			
alpha-BHC	8.33	5.67	68.1	37-134%
gamma-BHC(Lindane)	8.33	6.29	75.5	46-127%
beta-BHC	8.33	6.44	77.3	17-147%
Heptachlor	8.33	7.77	93.3	35-130%
delta-BHC	8.33	2.97	35.7	19-140%
Aldrin	8.33	6.61	79.4	34-132%
Heptachlor epoxide	8.33	6.43	77.2	37-142%
Endosulfan I	8.33	6.63	79.6	45-153%
4,4'-DDE	8.33	6.83	82.0	30-145%
Dieldrin	8.33	7.07	84.9	31-134%
Endrin	8.33	8.42	101.	42-139%
4,4'-DDD	8.33	7.17	86.1	23-134%
Endosulfan II	8.33	6.98	83.8	10-202%
4,4'-DDT	8.33	8.54	103.	38-127%
Endrin aldehyde	8.33	4.96	59.5	34-110%
Endosulfan sulfate	8.33	5.49	65.9	26-144%
Methoxychlor	8.33	7.67	92.1	38-127%
Endrin ketone	8.33	6.55	78.6	56-121%

Notes:
*: Indicates value(s) outside of acceptability limits. See Nonconformance Summary.

GTEL Client ID: FWH03FWH03 QUALITY CONTROL RESULTS
Login Number: W6120390 Organochlorine Pesticides and/or PCB
Project ID (number): DOIIWAD3 T38-LTO Method: EPA 8081
Project ID (name): HAFB/DO WAD/HOLLOMAN/NM Matrix: Solids

Matrix Spike(MS) and Matrix Spike Duplicate(MSD) Results

GTEL Sample ID:W6120390-10 MS ID:MS12039010 MSD ID:MD12039010
Analysis Date: 27-DEC-96 27-DEC-96 27-DEC-96

Units: ug/kg	Sample	Spikes Added		MS	MS	MSD	MSD		Acceptability Limits	
Analyte	Conc.	MS	MSD	Conc.	% Rec.	Conc.	% Rec.	RPD	RPD	%Rec.
alpha-BHC	< 1.00(0.000)	8.29	8.21	5.50	66.3	4.95	60.3	9.50	28	37-134
gamma-BHC(Lindane)	< 1.00(0.0941)	8.29	8.21	6.14	72.9	5.63	67.4	7.80	15	46-127
beta-BHC	< 1.00(0.271)	8.29	8.21	5.90	67.9	5.53	64.1	5.80	38	17-147
Heptachlor	< 1.00(0.000)	8.29	8.21	7.84	94.6	7.17	87.3	8.00	20	35-130
delta-BHC	< 1.00(0.000)	8.29	8.21	3.31	39.9	2.98	36.3	9.40	43	19-140
Aldrin	< 1.00(0.000)	8.29	8.21	6.66	80.3	6.01	73.2	9.30	22	34-132
Heptachlor epoxide	< 1.00(0.000)	8.29	8.21	6.62	79.9	6.15	74.9	6.50	22	37-142
Endosulfan I	< 1.00(0.000)	8.29	8.21	6.89	83.1	6.38	77.7	6.70	25	45-153
4,4'-DDE	< 1.00(0.133)	8.29	8.21	7.25	85.9	6.70	80.0	7.10	30	30-145
Dieldrin	< 1.00(0.000)	8.29	8.21	7.33	88.4	6.84	83.3	5.90	18	31-134
Endrin	< 1.00(0.000)	8.29	8.21	9.10	110.	8.36	102.	7.50	21	42-139
4,4'-DDD	< 1.00(0.125)	8.29	8.21	7.89	93.7	7.25	86.8	7.60	32	23-134
Endosulfan II	< 1.00(0.000)	8.29	8.21	7.28	87.8	6.68	81.4	7.60	63	10-202
4,4'-DDT	< 1.00(0.448)	8.29	8.21	9.68	111.	8.83	102.	8.50	27	38-127
Endrin aldehyde	< 1.00(0.000)	8.29	8.21	0.654	7.89*	0.949	11.6*	38.1*	21	34-110
Endosulfan sulfate	< 1.00(0.000)	8.29	8.21	5.77	69.6	5.24	63.8	8.70	32	26-144
Methoxychlor	< 1.00(0.000)	8.29	8.21	8.41	101.	7.75	94.4	6.80	27	38-127
rin ketone	< 1.00(0.000)	8.29	8.21	7.48	90.2	6.89	83.9	7.20	21	56-121

Notes:

Values in parentheses in the sample concentration column are used for % recovery calculations.

*: Indicates value(s) outside of acceptability limits. See Nonconformance Summary.

122396PESS-5: Due to matrix interferences, the percent recovery for Endrin aldehyde for the matrix spike and matrix spike duplicate were outside of acceptability limits.

122396PESS-5: :The percent recovery for Endrin aldehyde for the Laboratory Control Sample is within acceptability limits, demonstrating system control.

ANALYTICAL RESULTS
Total Petroleum Hydrocarbons

GTEL Client ID: FWH03FWH03
Login Number: W6120390
Project ID (number): DOIIWAD3 T38-LTO
Project ID (name): HAFB/DO WAD/HOLLOMAN/NM

Method: EPA 418.1
Matrix: Solids

GTEL Sample Number	W6120390-01	W6120390-02	W6120390-03	W6120390-04
Client ID	SWMU132-01-4	SWMU132-02-4	SWMU132-03-4	SWMU132-04-4
Date Sampled	12/19/96	12/19/96	12/19/96	12/19/96
Date Prepared	12/23/96	12/23/96	12/23/96	12/23/96
Date Analyzed	12/23/96	12/23/96	12/23/96	12/23/96
Dilution Factor	1.00	1.00	1.00	1.00

Analyte	Reporting Limit	Units	Concentration:Dry Weight			
Total Petroleum Hydrocarbons	20.	mg/kg	< 20.	< 20.	< 20.	< 20.
Percent Solids	--	%	98.8	98.0	97.1	99.4

Notes:

Dilution Factor:

Dilution factor indicates the adjustments made for sample dilution.

EPA 418.1:

Extraction is modified for soils by using EPA Method 9071 (soxhlet extraction). "Methods for Chemical Analysis of Water and Wastes", EPA 600/4-79-020, USEPA EMSL, Cincinnati, OH, Revised, March 1983.

ANALYTICAL RESULTS
Total Petroleum Hydrocarbons

GTEL Client ID: FWH03FWH03
Job Number: W6120390
Project ID (number): DOIIWAD3 T38-LTO
Project ID (name): HAFB/DO WAD/HOLLOMAN/NM

Method: EPA 418.1
Matrix: Solids

GTEL Sample Number	W6120390-05	--	--	--
Client ID	SWMU132-05-5	--	--	--
Date Sampled	12/19/96	--	--	--
Date Prepared	12/23/96			
Date Analyzed	12/23/96	--	--	--
Dilution Factor	1.00	--	--	--

Analyte	Reporting Limit	Units	Concentration:Dry Weight			
Total Petroleum Hydrocarbons	20.	mg/kg	< 20.	--	--	--
Percent Solids	--	%	98.6	--	--	--

Notes:

Dilution Factor:

Dilution factor indicates the adjustments made for sample dilution.

EPA 418.1:

Extraction is modified for soils by using EPA Method 9071 (soxhlet extraction). "Methods for Chemical Analysis of Water and Wastes", EPA 600/4-79-020, USEPA EMSL, Cincinnati, OH, Revised, March 1983.

GTEL Client ID:	FWH03FWH03	QUALITY CONTROL RESULTS	
Login Number:	W6120390		Total Petroleum Hydrocarbons
Project ID (number):	DOIIWAD3 T38-LTO		Method: EPA 4
Project ID (name):	HAFB/DO WAD/HOLLOMAN/NM		Matrix: Solids

Method Blank Results

QC Batch No: 122396IRSX-1
Date Analyzed: 23-DEC-96

Analyte	Method:EPA 418.1	Concentration: mg/kg
Total Petroleum Hydrocarbons	< 20.0	

Notes:

GTEL Client ID: FWH03FWH03

QUALITY CONTROL RESULTS

Login Number: W6120390

Total Petroleum Hydrocarbons

Project ID (number): DOIIWAD3 T38-LTO

Method: EPA 418.1

Project ID (name): HAFB/DO WAD/HOLLOMAN/NM

Matrix: Solids

Calibration Verification Sample Summary

Analyte	Spike Amount	Check Sample Concentration	QC Percent Recovery	Acceptability Limits Recovery
EPA 418.1 Units:mg/L	QC Batch:122396IRSX-6			
Total Petroleum Hydrocarbons	5.00	4.99	99.8	90-110%

Notes:

GTEL Client ID: FWH03FWH03
Login Number: W6120390
Project ID (number): DOIIWAD3 T38-LTO
Project ID (name): HAFB/DO WAD/HOLLOMAN/NM

QUALITY CONTROL RESULTS

Total Petroleum Hydrocarbons
Method: EPA 4
Matrix: So

Laboratory Control Sample Summary

Analyte	Spike Amount	Check Sample Concentration	QC Percent Recovery	Acceptability Limits Recovery
EPA 418.1 Units:mg/kg	**QC Batch:122396IRSX-2**			
Total Petroleum Hydrocarbons	150.	188.	125.	42-141%

Notes:
The accuracy limits are for a fuel oil #2 spike when the calibration is based on the standard reference oil.

GTEL Client ID: FWH03FWH03
Login Number: W6120390
Project ID (number): DOIIWAD3 T38-LTO
Project ID (name): HAFB/DO WAD/HOLLOMAN/NM

QUALITY CONTROL RESULTS

Total Petroleum Hydrocarbons
Method: EPA 418.1
Matrix: Solids

Matrix Spike(MS) and Matrix Spike Duplicate(MSD) Results

GTEL Sample ID:W6120390-01 MS ID:MS12039001 MSD ID:MD12039001
Analysis Date: 23-DEC-96 23-DEC-96 23-DEC-96

Units: mg/kg	Sample	Spikes Added		MS	MS	MSD	MSD		Acceptability Limits	
Analyte	Conc.	MS	MSD	Conc.	% Rec.	Conc.	% Rec.	RPD	RPD	%Rec.
Total Petroleum Hydrocarbons	20. (15.1)	150.	150.	196.	121.	205.	127.	4.80	50	42-141

Notes:
Values in parentheses in the sample concentration column are used for % recovery calculations.
The accuracy limits are for a fuel oil #2 spike when the calibration is based on the standard reference oil.

GTEL Client ID: FWH03FWH03 QUALITY CONTROL RESULTS
Login Number: W6120390 Total Petroleum Hydrocarbons
Project ID (number): DOIIWAD3 T38-LTO Method: EPA 4
Project ID (name): HAFB/DO WAD/HOLLOMAN/NM Matrix: So

Conformance/Non-Conformance Summary

(X = Requirements Met * = See Comments -- = Not Required NA = Not Applicable)

Conformance Item	Volatile Organics	Semi-Volatile Organics	Inorganics (MT, WC)
GC/MS Tune	--	--	NA
Initial Calibration	--	--	--
Continuing Calibration	--	X	--
Surrogate Recovery	--	--	NA
Holding Time	--	X	--
Method Accuracy	--	X	--
Method Precision	--	X	--
Blank Contamination	--	X	--

Comments:

APPENDIX B

SWMUs 17/21

NEI/GTEL
ENVIRONMENTAL LABORATORIES, INC.

Midwest Region
4211 May Avenue
Wichita, KS 67209
(316) 945-2624
(800) 633-7936
(316) 945-0506 (FAX)

May 23, 1997

Dan Holmquist
Foster Wheeler Environmental Corporation
241 Arkansas St. /Behind Rv Storage
Holloman A F B, NM 88330

RE: NEI/GTEL Client ID: FWH03FWH03
Login Number: W7050297
Project ID (number):
Project ID (name): HAFB/D014 WAD3/"O" CLUB/HOLLOMAN/NM

Dear Dan Holmquist:

Enclosed please find the analytical results for the samples received by NEI/GTEL Environmental Laboratories, Inc. on 05/20/97 under Chain-of-Custody Number(s) 47749.

A formal Quality Assurance/Quality Control (QA/QC) program is maintained by NEI/GTEL, which is designed to meet or exceed the EPA requirements. Analytical work for this project met QA/QC criteria unless otherwise stated in the footnotes. This report is to be reproduced only in full.

NEI/GTEL is certified by the U.S. Army Corp of Engineers Laboratory Validation, expiration date March 18, 1997.

If you have any questions regarding this analysis, or if we can be of further assistance, please call our Customer Service Representative.

Sincerely,
NEI/GTEL Environmental Laboratories, Inc.

Customer Service Manager

Terry R. Loucks
Laboratory Director

ANALYTICAL RESULTS
Total Petroleum Hydrocarbons

NEI/GTEL Client ID: FWH03FWH03
Login Number: W7050297
Project ID (number): FWH03FWH03
Project ID (name): HAFB/D014 WAD3/"O" CLUB/HOLLOMAN/NM

Method: EPA 418.1
Matrix: Solids

NEI/GTEL Sample Number	W7050297-01	--	--	--
Client ID	SWMV17/121-3	--	--	--
Date Sampled	05/16/97	--	--	--
Date Prepared	05/22/97			
Date Analyzed	05/23/97	--	--	--
Dilution Factor	1.00	--	--	--

Analyte	Reporting Limit	Units	Concentration:Dry Weight			
Total Petroleum Hydrocarbons	20.	mg/kg	< 20.	--	--	--
Percent Solids	--	%	68.8	--	--	--

Notes:

Dilution Factor:

Dilution factor indicates the adjustments made for sample dilution.

EPA 418.1:

Extraction is modified for soils by using EPA Method 9071 (soxhlet extraction). "Methods for Chemical Analysis of Water and Wastes", EPA 600/4-79-020, USEPA EMSL, Cincinnati, OH, Revised, March 1983.

NEI/GTEL
ENVIRONMENTAL LABORATORIES, INC.

Midwest Region
4211 May Avenue
Wichita, KS 67209
(316) 945-2624
(800) 633-7936
(316) 945-0506 (FAX)

May 23, 1997

Dan Holmquist
Foster Wheeler Environmental Corporation
241 Arkansas St. /Behind Rv Storage
Holloman A F B, NM 88330

RE:	NEI/GTEL Client ID:	FWH03FWH03
	Login Number:	W7050297
	Project ID (number):	
	Project ID (name):	HAFB/D014 WAD3/"O" CLUB/HOLLOMAN/NM

Dear Dan Holmquist:

Enclosed please find the analytical results for the samples received by NEI/GTEL Environmental Laboratories, Inc. on 05/20/97 under Chain-of-Custody Number(s) 47749.

A formal Quality Assurance/Quality Control (QA/QC) program is maintained by NEI/GTEL, which is designed to meet or exceed the EPA requirements. Analytical work for this project met QA/QC criteria unless otherwise stated in the footnotes. This report is to be reproduced only in full.

NEI/GTEL is certified by the U.S. Army Corp of Engineers Laboratory Validation, expiration date March 18, 1997.

If you have any questions regarding this analysis, or if we can be of further assistance, please call our Customer Service Representative.

Sincerely,
NEI/GTEL Environmental Laboratories, Inc.

Customer Service Manager

Terry R. Loucks
Laboratory Director

ANALYTICAL RESULTS
Total Petroleum Hydrocarbons

NEI/GTEL Client ID: FWH03FWH03
gin Number: W7050297
Project ID (number): FWH03FWH03
Project ID (name): HAFB/D014 WAD3/"O" CLUB/HOLLOMAN/NM

Method: EPA 418.1
Matrix: Solids

NEI/GTEL Sample Number	W7050297-01	--	--	--
Client ID	SWMV17/121-3	--	--	--
Date Sampled	05/16/97	--	--	--
Date Prepared	05/22/97			
Date Analyzed	05/23/97	--	--	--
Dilution Factor	1.00	--	--	--

Analyte	Reporting Limit	Units	Concentration:Dry Weight			
Total Petroleum Hydrocarbons	20.	mg/kg	< 20.	--	--	--
Percent Solids	--	%	68.8	--	--	--

Notes:

Dilution Factor:

Dilution factor indicates the adjustments made for sample dilution.

EPA 418.1:

Extraction is modified for soils by using EPA Method 9071 (soxhlet extraction). "Methods for Chemical Analysis of Water and Wastes", EPA 600/4-79-020, USEPA EMSL, Cincinnati, OH, Revised, March 1983.

Jason D. Morales

NEI/GTEL Client ID:	FWH03FWH03	QUALITY CONTROL RESULTS	
Login Number:	W7050297		Total Petroleum Hydrocarb
Project ID (number):	FWH03FWH03		Method: EPA 4
Project ID (name):	HAFB/D014 WAD3/"O" CLUB/HOLLOMAN/NM		Matrix: Solids

Method Blank Results

QC Batch No: 052297IRSX-1
Date Analyzed: 23-MAY-97

Analyte	Method:EPA 418.1	Concentration: mg/kg
Total Petroleum Hydrocarbons	< 20.0	

Notes:

NEI/GTEL Client ID: FWH03FWH03

QUALITY CONTROL RESULTS

Login Number: W7050297

Total Petroleum Hydrocarbons

Project ID (number): FWH03FWH03

Method: EPA 418.1

Project ID (name): HAFB/DO14 WAD3/"O" CLUB/HOLLOMAN/NM

Matrix: Solids

Calibration Verification Sample Summary

Analyte	Spike Amount	Check Sample Concentration	QC Percent Recovery	Acceptability Limits Recovery
EPA 418.1 **Units:mg/L**	**QC Batch:052297IRSX-6**			
Total Petroleum Hydrocarbons	5.00	4.97	99.4	90-110%

Notes:

NEI/GTEL Client ID: FWH03FWH03
Login Number: W7050297
Project ID (number): FWH03FWH03
Project ID (name): HAFB/D014 WAD3/"O" CLUB/HOLLOMAN/NM

QUALITY CONTROL RESULTS

Total Petroleum Hydrocar
Method: EPA 4
Matrix: Solids

Laboratory Control Sample Summary

Analyte	Spike Amount	Check Sample Concentration	QC Percent Recovery	Acceptability Limits Recovery
EPA 418.1 Units:mg/kg	QC Batch:052297IRSX-2			
Total Petroleum Hydrocarbons	150.	166.	111.	42-141%

Notes:
The accuracy limits are for a fuel oil #2 spike when the calibration is based on the standard reference oil.

NEI/GTEL Client ID: FWH03FWH03 QUALITY CONTROL RESULTS
Origin Number: W7050297 Total Petroleum Hydrocarbons
Project ID (number): FWH03FWH03 Method: EPA 418.1
Project ID (name): HAFB/D014 WAD3/"O" CLUB/HOLLOMAN/NM Matrix: Solids

Matrix Spike(MS) and Matrix Spike Duplicate(MSD) Results

GTEL Sample ID:W7050297-01 MS ID:MS05029701 MSD ID:MD05029701
Analysis Date: 23-MAY-97 23-MAY-97 23-MAY-97

Units: mg/kg	Sample	Spikes Added		MS	MS	MSD	MSD		Acceptability Limits	
Analyte	Conc.	MS	MSD	Conc.	% Rec.	Conc.	% Rec.	RPD	RPD	%Rec.
Total Petroleum Hydrocarbons	< 20. (-2.03)	150.	150.	159.	107.	159.	107.	0.00	50	42-141

Notes:
Values in parentheses in the sample concentration column are used for % recovery calculations.
The accuracy limits are for a fuel oil #2 spike when the calibration is based on the standard reference oil.

NEI/GTEL Client ID: FWH03FWH03 QUALITY CONTROL RESULTS
Login Number: W7050297 Total Petroleum Hydrocarbons
Project ID (number): FWH03FWH03 Method: EPA 4
Project ID (name): HAFB/D014 WAD3/"O" CLUB/HOLLOMAN/NM Matrix: Soils

Conformance/Non-Conformance Summary

(X = Requirements Met * = See Comments -- = Not Required NA = Not Applicable)

Conformance Item	Volatile Organics	Semi-Volatile Organics	Inorganics (MT, WC)
GC/MS Tune	--	--	NA
Initial Calibration	--	--	--
Continuing Calibration	--	X	--
Surrogate Recovery	--	--	NA
Holding Time	--	X	--
Method Accuracy	--	X	--
Method Precision	--	X	--
Blank Contamination	--	X	--

Comments:

NEI/GTEL
ENVIRONMENTAL LABORATORIES, INC.

Midwest Region
4211 May Avenue
Wichita, KS 67209
(316) 945-2624
(800) 633-7936
(316) 945-0506 (FAX)

June 6, 1997

Dan Holmquist
Foster Wheeler Environmental Corporation
241 Arkansas St. /Behind Rv Storage
Holloman A F B, NM 88330

RE:	NEI/GTEL Client ID:	FWH03FWH03
	Login Number:	W7060027
	Project ID (number):	DOIIWAD3 POL PHASEII
	Project ID (name):	HAFB/DOII WAD3/HOLLOMAN/NM

Dear Dan Holmquist:

Enclosed please find the analytical results for the samples received by NEI/GTEL Environmental Laboratories, Inc. on 06/04/97 under Chain-of-Custody Number(s) 47271.

A formal Quality Assurance/Quality Control (QA/QC) program is maintained by NEI/GTEL, which is designed to meet or exceed the EPA requirements. Analytical work for this project met QA/QC criteria unless otherwise stated in the footnotes. This report is to be reproduced only in full.

NEI/GTEL is certified by the U.S. Army Corp of Engineers Laboratory Validation, expiration date March 18, 1997.

If you have any questions regarding this analysis, or if we can be of further assistance, please call our Customer Service Representative.

Sincerely,
NEI/GTEL Environmental Laboratories, Inc.

Customer Service Manager

Terry R. Loucks
Laboratory Director

RECEIVED JUN 12 1997

ANALYTICAL RESULTS
Total Petroleum Hydrocarbons

NEI/GTEL Client ID: FWH03FWH03
gin Number: W7060027
Project ID (number): DOIIWAD3 POL PHASEII
Project ID (name): HAFB/DOII WAD3/HOLLOMAN/NM

Method: EPA 418.1
Matrix: Solids

NEI/GTEL Sample Number	W7060027-01	W7060027-02	W7060027-03	--
Client ID	SWMU 17/121-1-6	SWMU 17/121-2-6	SWMU 17/121-3-55	--
Date Sampled	06/02/97	06/02/97	06/02/97	--
Date Prepared	06/05/97	06/05/97	06/05/97	
Date Analyzed	06/06/97	06/06/97	06/06/97	--
Dilution Factor	1.00	1.00	1.00	--

Analyte	Reporting Limit	Units	Concentration:Dry Weight			
Total Petroleum Hydrocarbons	20.	mg/kg	80.	43.	< 20.	--
Percent Solids	--	%	87.6	75.6	68.7	--

Notes:

Dilution Factor:

Dilution factor indicates the adjustments made for sample dilution.

EPA 418.1:

Extraction is modified for soils by using EPA Method 9071 (soxhlet extraction). "Methods for Chemical Analysis of Water and Wastes", EPA 600/4-79-020, USEPA EMSL, Cincinnati, OH, Revised, March 1983.

NEI/GTEL Client ID: FWH03FWH03 QUALITY CONTROL RESULTS
Login Number: W7060027 Total Petroleum Hydrocarbons
Project ID (number): DOIIWAD3 POL PHASEII Method: EPA 4
Project ID (name): HAFB/DOII WAD3/HOLLOMAN/NM Matrix: Solids

Method Blank Results

QC Batch No: 060597IRSX-1
Date Analyzed: 06-JUN-97

Analyte	Method:EPA 418.1	Concentration: mg/kg
Total Petroleum Hydrocarbons	< 20.0	

Notes:

NEI/GTEL Client ID: FWH03FWH03

QUALITY CONTROL RESULTS

Login Number: W7060027

Total Petroleum Hydrocarbons

Project ID (number): DOIIWAD3 POL PHASEII

Method: EPA 418.1

Project ID (name): HAFB/DOII WAD3/HOLLOMAN/NM

Matrix: Solids

Calibration Verification Sample Summary

Analyte	Spike Amount	Check Sample Concentration	QC Percent Recovery	Acceptability Limits Recovery
EPA 418.1 Units:mg/L	QC Batch:060597IRSX-6			
Total Petroleum Hydrocarbons	5.00	5.12	102.	90-110%

Notes:

NEI/GTEL Client ID: FWH03FWH03 QUALITY CONTROL RESULTS
Login Number: W7060027 Total Petroleum Hydrocarbons
Project ID (number): DOIIWAD3 POL PHASEII Method: EPA 41
Project ID (name): HAFB/DOII WAD3/HOLLOMAN/NM Matrix: Sol

Matrix Spike(MS) and Matrix Spike Duplicate(MSD) Results

GTEL Sample ID:W7060027-01 MS ID:MS06002701 MSD ID:MD06002701
Analysis Date: 06-JUN-97 06-JUN-97 06-JUN-97

Units: mg/kg	Sample	Spikes Added		MS	MS	MSD	MSD		Acceptability Limits	
Analyte	Conc.	MS	MSD	Conc.	% Rec.	Conc.	% Rec.	RPD	RPD	%Rec.
Total Petroleum Hydrocarbons	70. (70.3)	150.	150.	240.	113.	396.	217.*	63.0*	50	42-141

Notes:

Values in parentheses in the sample concentration column are used for % recovery calculations.

The accuracy limits are for a fuel oil #2 spike when the calibration is based on the standard reference oil.

060597IRSX-5: Sample spike recovery is outside of acceptability limits due to sample inhomogeneity. Blank spike recovery is within acceptability limits, therefore demonstrating method accuracy.

060597IRSX-5: :Sample duplicate RPD is outside of acceptability limits due to sample inhomogeneity. Blank spike RPD is within acceptability limits, therefore demonstrating method precision.

NEI/GTEL Client ID: FWH03FWH03 QUALITY CONTROL RESULTS
Login Number: W7060027 Total Petroleum Hydrocarbons
Project ID (number): DOIIWAD3 POL PHASEII Method: EPA 418.1
Project ID (name): HAFB/DOII WAD3/HOLLOMAN/NM Matrix: Solids

Laboratory Control Sample (LCS) and Laboratory Control Duplicate Results

Analyte	Spike Amount	LCS Concentration	LCS Recovery, %	LCS Duplicate Concentration	LCS Duplicate Recovery, %	RPD, %	Acceptability Limits RPD, %	Acceptability Limits Recovery, %
EPA 418.1 Units: mg/kg QC Batch:060597IRSX-3								
Total Petroleum Hydrocarbons	150.	174.	116.	175.	117.	0.858	50	42-141%

Notes:
The accuracy limits are for a fuel oil #2 spike when the calibration is based on the standard reference oil.

NEI/GTEL Client ID: FWH03FWH03 QUALITY CONTROL RESULTS
Login Number: W7060027 Total Petroleum Hydrocarbons
Project ID (number): DOIIWAD3 POL PHASEII Method: EPA 4
Project ID (name): HAFB/DOII WAD3/HOLLOMAN/NM Matrix: So

Conformance/Non-Conformance Summary

(X = Requirements Met * = See Comments -- = Not Required NA = Not Applicable)

Conformance Item	Volatile Organics	Semi-Volatile Organics	Inorganics (MT, WC)
GC/MS Tune	--	--	NA
Initial Calibration	--	--	--
Continuing Calibration	--	X	--
Surrogate Recovery	--	--	NA
Holding Time	--	X	--
Method Accuracy	--	*	--
Method Precision	--	*	--
Blank Contamination	--	X	--

Comments:
The accuracy limits are for a fuel oil #2 spike when the calibration is based on the standard reference oil.

APPENDIX B

AOC-A

NEI/GTEL
ENVIRONMENTAL LABORATORIES, INC.

Midwest Region
4211 May Avenue
Wichita, KS 67209
(316) 945-2624
(800) 633-7936
(316) 945-0506 (FAX)

October 14, 1996

Dan Holmquist
Foster Wheeler Environmental Corporation
241 Arkansas St. /Behind Rv Storage
Holloman A F B, NM 88330

RE:	GTEL Client ID:	FWH03FWH03
	Login Number:	W6100198
	Project ID (number):	
	Project ID (name):	HAFB/DO WAD/HOLLOMAN/NM

Dear Dan Holmquist:

Enclosed please find the analytical results for the samples received by GTEL Environmental Laboratories, Inc. on 10/11/96 under Chain-of-Custody Number(s) 44518.

A formal Quality Assurance/Quality Control (QA/QC) program is maintained by GTEL, which is designed to meet or exceed the EPA requirements. Analytical work for this project met QA/QC criteria unless otherwise stated in the footnotes. This report is to be reproduced only in full.

NEI/GTEL is certified by the U.S. Army Corp of Engineers Laboratory Validation, expiration date March 18, 1997.

If you have any questions regarding this analysis, or if we can be of further assistance, please call our Customer Service Representative.

Sincerely,
GTEL Environmental Laboratories, Inc.

Terry R. Loucks
Laboratory Director

RECEIVED OCT 21 1996

ANALYTICAL RESULTS
Flashpoint

GTEL Client ID: FWH03FWH03
gin Number: W6100198
rroject ID (number): FWH03FWH03
Project ID (name): HAFB/DO WAD/HOLLOMAN/NM

Method: ASTM D93
Matrix: Solids

GTEL Sample Number	W6100198-06	--	--	--
Client ID	AOC-A-SP	--	--	--
Date Sampled	10/09/96	--	--	--
Date Analyzed	10/11/96	--	--	--
Dilution Factor	1.00	--	--	--

Analyte	Reporting Limit	Units	Concentration:Wet Weight			
Flashpoint (Closed Cup)	70.0	degrees F	> 200.	--	--	--
Percent Solids	--	%	79.6	--	--	--

Notes:

Dilution Factor:

Dilution factor indicates the adjustments made for sample dilution.

ASTM D93:

Annual Book of ASTM Standards, 1983 Revision.

ANALYTICAL RESULTS
Total Petroleum Hydrocarbons

GTEL Client ID: FWH03FWH03
Login Number: W6100198
Project ID (number): FWH03FWH03
Project ID (name): HAFB/DO WAD/HOLLOMAN/NM

Method: EPA 418.1
Matrix: Solids

GTEL Sample Number	W6100198-01	W6100198-02	W6100198-03	W6100198-04
Client ID	AOC-A-5-1	AOC-A-5-2	AOC-A-5-3	AOC-A-5-4
Date Sampled	10/09/96	10/09/96	10/09/96	10/09/96
Date Prepared	10/12/96	10/12/96	10/12/96	10/12/96
Date Analyzed	10/13/96	10/13/96	10/13/96	10/13/96
Dilution Factor	1.00	1.00	1.00	1.00

Analyte	Reporting Limit	Units	Concentration:Dry Weight			
Total Petroleum Hydrocarbons	20.	mg/kg	20.	33.	27.	20.
Percent Solids	--	%	84.5	84.4	82.7	82.7

Notes:

Dilution Factor:

Dilution factor indicates the adjustments made for sample dilution.

EPA 418.1:

Extraction is modified for soils by using EPA Method 9071 (soxhlet extraction). "Methods for Chemical Analysis of Water and Wastes", EPA 600/4-79-020, USEPA EMSL, Cincinnati, OH, Revised, March 1983.

ANALYTICAL RESULTS
Total Petroleum Hydrocarbons

GTEL Client ID: FWH03FWH03
gin Number: W6100198
oject ID (number): FWH03FWH03
Project ID (name): HAFB/DO WAD/HOLLOMAN/NM

Method: EPA 418.1
Matrix: Solids

GTEL Sample Number	W6100198-05	W6100198-06	W6100198-07	W6100198-08
Client ID	AOC-A-5-5	AOC-A-SP	AOC-A-5-6	AOC-A-6-7
Date Sampled	10/09/96	10/09/96	10/09/96	10/09/96
Date Prepared	10/12/96	10/12/96	10/12/96	10/12/96
Date Analyzed	10/13/96	10/13/96	10/13/96	10/13/96
Dilution Factor	1.00	20.0	1.00	1.00

Analyte	Reporting Limit	Units	Concentration:Dry Weight			
Total Petroleum Hydrocarbons	20.	mg/kg	< 20.	74000	370	20.
Percent Solids	--	%	83.3	79.6	77.5	78.9

Notes:

Dilution Factor:

Dilution factor indicates the adjustments made for sample dilution.

EPA 418.1:

Extraction is modified for soils by using EPA Method 9071 (soxhlet extraction). "Methods for Chemical Analysis of Water and Wastes", EPA 600/4-79-020, USEPA EMSL, Cincinnati, OH, Revised, March 1983.

GTEL Client ID: FWH03FWH03
Login Number: W6100198
Project ID (number): FWH03FWH03
Project ID (name): HAFB/DO WAD/HOLLOMAN/NM

QUALITY CONTROL RESULTS

Total Petroleum Hydrocarbons
Method: EPA 4
Matrix: Solids

Method Blank Results

QC Batch No: 101296IRSX-1
Date Analyzed: 13-OCT-96

Analyte	Method:EPA 418.1 Concentration: mg/kg
Total Petroleum Hydrocarbons	< 10.0

Notes:

GTEL Client ID: FWH03FWH03 QUALITY CONTROL RESULTS
Login Number: W6100198 Total Petroleum Hydrocarbons
Project ID (number): FWH03FWH03 Method: EPA 418.1
Project ID (name): HAFB/DO WAD/HOLLOMAN/NM Matrix: Solids

Calibration Verification Sample Summary

Analyte	Spike Amount	Check Sample Concentration	QC Percent Recovery	Acceptability Limits Recovery
EPA 418.1 Units:mg/L	QC Batch:101296IRSX-6			
Total Petroleum Hydrocarbons	5.00	5.10	102.	90-110%

Notes:

GTEL Client ID: FWH03FWH03
Login Number: W6100198
Project ID (number): FWH03FWH03
Project ID (name): HAFB/DO WAD/HOLLOMAN/NM

QUALITY CONTROL RESULTS

Total Petroleum Hydrocarbons
Method: EPA 4
Matrix: Sol

Matrix Spike(MS) and Matrix Spike Duplicate(MSD) Results

GTEL Sample ID:W6100199-01 MS ID:MS10019901 MSD ID:MD10019901
Analysis Date: 13-OCT-96 13-OCT-96 13-OCT-96

Units: mg/kg	Sample	Spikes Added		MS	MS	MSD	MSD		Acceptability Limits	
Analyte	Conc.	MS	MSD	Conc.	% Rec.	Conc.	% Rec.	RPD	RPD	%Rec.
Total Petroleum Hydrocarbons	< 20. (-0.479)	144.	150.	191.	133.	194.	130.	2.30	50	42-141

Notes:
Values in parentheses in the sample concentration column are used for % recovery calculations.
The accuracy limits are for a fuel oil #2 spike when the calibration is based on the standard reference oil.

GTEL Client ID: FWH03FWH03

QUALITY CONTROL RESULTS

Login Number: W6100198

Total Petroleum Hydrocarbons

Project ID (number): FWH03FWH03

Method: EPA 418.1

Project ID (name): HAFB/DO WAD/HOLLOMAN/NM

Matrix: Solids

Laboratory Control Sample (LCS) and Laboratory Control Duplicate Results

Analyte	Spike Amount	LCS Concentration	LCS Recovery, %	LCS Duplicate Concentration	LCS Duplicate Recovery, %	RPD, %	Acceptability Limits RPD, %	Acceptability Limits Recovery, %
EPA 418.1 Units: mg/kg QC Batch:101296IRSX-3								
Total Petroleum Hydrocarbons	150.	201.	134.	193.	129.	3.80	50	40-140%

Notes:

The accuracy limits are for a fuel oil #2 spike when the calibration is based on the standard reference oil.

GTEL Client ID: FWH03FWH03
Login Number: W6100198
Project ID (number): FWH03FWH03
Project ID (name): HAFB/DO WAD/HOLLOMAN/NM

QUALITY CONTROL RESULTS

Total Petroleum Hydrocarbons
Method: EPA 41
Matrix: Solids

Conformance/Non-Conformance Summary

(X = Requirements Met * = See Comments -- = Not Required NA = Not Applicable)

Conformance Item	Volatile Organics	Semi-Volatile Organics	Inorganics (MT, WC)
GC/MS Tune	--	--	NA
Initial Calibration	--	--	--
Continuing Calibration	--	X	--
Surrogate Recovery	--	--	NA
Holding Time	--	X	--
Method Accuracy	--	X	--
Method Precision	--	X	--
Blank Contamination	--	X	--

Comments:

APPENDIX C

USACE SITE INSPECTION CLOSURE REPORTS

POL PHASE II FINAL INSPECTION
22 August 1996

Inspectors: Rick Mcfarlane, ACOE
Donna Russell, ACOE
Dan Holmquist, FWENC

SWMU #/BLDG #	STATUS
1/55	Small patch of dry mix - "soft" around oil/water separator, east side. Compactor to replace if asphalt breaks up. **Site cleared.**
2/121	Sewer man-hole cover moved; hole is noticeable because cover not sitting in hole; outside limits of excavation. Agreed not done by FWENC. Landscape complete. **Site cleared.**
7/198	**Action Required**: Remove sheet metal tops from old oil/water separator. **Site cleared.**
11/300	**Action Required**: Clean up concrete chips and debris from side of sidewalk. Compact/build up soil flush around water valve cover for support. **Site cleared.**
17 & 121/316	**Action Required:** Clear landscape rock. recompact. fill, and compact. Re-rock for landscape. **Site cleared.**
12 & 13/304	Repaving complete. **Site cleared.**
21 & 22/702	New shower facility installed. Water drainage causing depression on side of concrete pad. Some mounding apparent from work performed by Civil Engineering Squadron. Landscape complete. **Site cleared.**
19/638	Repaving complete. **Site cleared.**
27/810	**Action Required**: Drive in access soil used for truck entry to be removed from curb. **Site cleared.**
23/800	**Action Required:** Clear landscape rock, recompact. fill and compact, re-rock for landscape. **Site cleared.**
31/855	Repaving complete. **Site cleared.**
29/827	Repaving complete. **Site cleared.**
28/822	**Action Required:** Site not complete. Future work to be completed.

35/903	**Action Required:** Remove rock, compact, fill, recompact, and re-rock for landscape. **Site cleared.**
41/1266	Repaving complete. **Site cleared.**
40 & 128/1166	Construction debris (concrete). Assumed to be from patch the Civil Engineering Squadron performed on wash rack. Landscape complete. **Site cleared.**
14/306	**Not inspected:** No work performed due to future pre-fab wastewater recirculation unit to be installed by FWENC.
25/805	**Not inspected:** No work performed due to waste oil tank removed by previous contractor.

POL PHASE II PRE-FINAL INSPECTIONS
1 - 3 July 1996

Inspectors: Brian Jordan, ACOE
Dino Bonaldo, FWENC

SWMU #/BLDG #	STATUS
1/55	Small patch of dry mix - "soft" around oil/water separator, east side. Compactor to replace if asphalt breaks up.
2/121	Sewer man-hole cover moved; hole is noticeable because cover not sitting in hole; outside limits of excavation. Agreed not done by FWENC. Landscape complete. Site cleared.
7/198	**Action Required**: Remove sheet metal tops from old oil/water separator.
11/300	**Action Required**: Clean up concrete chips and debris from side of sidewalk. Compact/build up soil flush around water valve cover for support.
17 & 121/316	**Action Required**: Clear landscape rock, recompact, fill, and compact. Re-rock for landscape.
12 & 13/304	Repaving complete. Site cleared.
21 & 22/702	New shower facility installed by POL personnel. Water drainage causing depression on side of concrete pad. Some mounding apparent from work performed by Civil Engineering Squadron. Landscape complete. Site cleared.
19/638	Repaving complete. Site cleared.
27/810	**Action Required**: Drive in access soil used for truck entry to be removed from curb.
23/800	**Action Required**: Clear landscape rock, recompact, fill and compact, re-rock for landscape.
31/855	Repaving complete. Site cleared.
29/827	Repaving complete. Site cleared.
28/822	Site no complete. Future work to be completed.

35/903	**Action Required:** Remove rock, compact, fill, recompact, and re-rock for landscape.
41/1266	Repaving complete. Site cleared.
40 & 128/1166	Construction debris (concrete). Assumed to be from patch the Civil Engineering Squadron performed on wash rack. Landscape complete. Site cleared.
14/306	**Not inspected:** No work performed due to future pre-fab wastewater recirculation unit to be installed by FWENC.
25/805	**Not inspected:** No work performed due to waste oil tank removed by previous contractor.

FIGURE 8-1
INSPECTION CHECKLIST

ITEM: FINAL INSPECTION POL PHASE II				DATE: 8/22/96
Contract Specifications:				
MATERIAL	QTY	CONDITION	TESTING	COMMENTS
NA				

STORAGE CONDITIONS:

NA

SUBMITTALS:

NA

FIGURE 8-1 (Continued)
INSPECTION CHECKLIST

MATERIAL/EQUIPMENT CERTIFICATIONS:

NA

PREPARATORY SITE CONDITIONS:

NA

CONTRACT VARIANCE:

NA

COMMENTS:

SWMU's 1, 2, 7, 11, 17, 121, 12, 13, 21, 22, 19, 27, 23, 31, 29, 35, 41, 40, 128 FROM THE POC PHASE II RA PROJECT HAVE BEEN CLEARED

ATTENDEES:

DAN HOLMQUIST
RICK MACFARLANE
DONNA RUSSELL

QC REPRESENTATIVE	DATE
[signature]	8/22/96
QCSM	DATE

Holloman AFB
Completion Inspection for SWMUs 8, 123, 107 14, 17/121 and AOC-G

INSPECTION CHECKLIST

ITEM: Contaminated soil excavation DATE: 6/11/97

Contract Specifications:

MATERIAL	QTY	CONDITION	TESTING	COMMENTS

STORAGE CONDITIONS:

SUBMITTALS: Record Documents will be submitted to USACE. These will include:
- Construction drawings
- Field change requests
- DQCRs
- Analytical and testing results
- Waste manifests

INSPECTION CHECKLIST

MATERIAL/EQUIPMENT CERTIFICATIONS:

PREPARATORY SITE CONDITIONS:

CONTRACT VARIANCE: FCR No. 17.

COMMENTS: All sites look good

ATTENDEES:

Dan Kohnquist FWENC 6/17/97

George Fitch USACE

OC REPRESENTATIVE Dale K Hu 6/17/97 DATE

OCSM DATE

INSPECTION CHECKLIST

ITEM: DATE: 6/11/97

Contract Specifications:

MATERIAL	QTY	CONDITION	TESTING	COMMENTS
backhoe	1	good		
5 yd dump	1	good		
bobcat	1	good		
32" smooth dr	1	good		
Import fill	Ton		Proctor in-place densities	
3/4-inch chips	20 Ton			
Base course	30 Ton		gradation test in-place density	
Asphalt	47 Ton			
PID	1	good		
40 mil plastic	1000 ft			
4 mil plastic	3 rolls	good		
grout	3½			

Storage conditions:
The PID is stored inside the FWENC trailer. All other materials are stored outside

SUBMITTALS: Record documents will be submitted to ACOE at the completion of the POL work. The record documents will include:

- construction drawings
- Field change requests
- Non conformance reports
- DQCR's
- all analytical results
- all soil testing results
- Base Course gradation tests
- Base course density tests
- Asphalt mix design
- grout mix design
- waste manifests
- delivery tickets

INSPECTION CHECKLIST

MATERIAL/EQUIPMENT CERTIFICATIONS:

PREPARATORY SITE CONDITIONS:

CONTRACT VARIANCE: This project was started in 1996. ACOE directed the work to stop because the Air Force was going to install a remedial system. Upon reviewing the cost of the system, the Air Force decided it would be more economical to excavate the contaminated soil. This is out of scope work and is being done per FCR No. 17.

COMMENTS: In addition to ~~[illegible]~~ excavating remaining contaminated soil, an area where the asphalt had sunk was repaired. This involved placing grout under a washout and replacing some asphalt.
Confirmation samples were less than 100 PPM. 1000 PPM or less is what the state requires for closure. -: NO DISCREPANCIES.

ATTENDEES:

CHUCK McCLINTOCK (ACOE)
GEORGE FISH
DINO BONALDO (FWENC)
DREW LESSARO .. (HAFB)

SF 6/17/97

CC REPRESENTATIVE DATE

CCSM .. DATE

COMPLETION INSPECTION - SWMU-3

INSPECTION CHECKLIST

ITEM: | DATE: 4/14/97

Contract Specifications:

MATERIAL		CONDITION	TESTING	COMMENTS
FENCING	140' & 9' FENCE 2, 20'x9' GATES 2, 15'x8' GATES	NEW	N/A	MATCHES EXISTING OR BETTER.
SCREENED FILL	760 TONS		PROCTOR/DENSITIES	PLACED IN 8-INCH LOOSE LIFTS AND COMPACTED TO 95%
LANDSCAPE ROCK (2")	60 TONS		N/A	
3/4" ROCK CHIPS	400 TONS		N/A	PLACED IN BOTTOM OF EXCAVATION TO 1.0 FOOT ABOVE GROUNDWATER

STORAGE CONDITIONS: 1157 TONS OF TPH CONTAMINATED SOIL HAVE BEEN PLACED AT THE RHINO ENVIRONMENTAL LANDFARM IN NEWMAN, NEW MEXICO.
EXCAVATED NATIVE SOIL DETERMINED TO BE CLEAN (LESS THAN 1000 PPM FOR TPH) WAS USED TO BACKFILL THE EXCAVATION.

SUBMITTALS:
RECORD DOCUMENTS WILL BE SUBMITTED TO ACOE AT THE COMPLETION OF POL PHASE II WORK.
THE RECORD DOCUMENTS WILL INCLUDE:
- CONSTRUCTION DRAWINGS
- FIELD CHANGE REQUESTS
- NON CONFORMANCE REPORTS
- DQCR's
- CONFIRMATION AND STOCKPILE SAMPLE ANALYTICAL RESULTS
- NON-HAZARDOUS WASTE MANIFESTS
- PROCTORS
- FIELD DENSITY TESTS
- SAND CONE DENSITY RESULTS
- FENCING SPECIFICATIONS
- INSPECTIONS

INSPECTION CHECKLIST

MATERIAL/EQUIPMENT CERTIFICATIONS:

PREPARATORY SITE CONDITIONS:
SWMU-3 CONFIRMATION SAMPLE LOCATIONS AND ANALYTICAL RESULTS ARE ATTACHED. NO CONFIRMATION SAMPLES WERE TAKEN FROM THE BOTTOM OF THE EXCAVATION BECAUSE THE EXCAVATION BOTTOM WAS BELOW GROUNDWATER.

CONTRACT VARIANCE: DURING THE POL PHASE I PROJECT, IT WAS DISCOVERED THAT THERE WAS EXTENSIVE TPH CONTAMINATI AT SWMU-3. HOLLOMAN AFB DIRECTED ACOE TO STOP EXCAVATION ACTIVITIES. THE BASE THEN REQUESTED THAT FWENC DESIGN A SOIL VAPOR EXTRACTION SYSTEM FOR THE SITE. UPON COMPLETION OF THE DESIGN, THE BASE DECIDED THAT EXCAVATION OF THE SITE WOULD BE MORE COST EFFECTIVE THAN THE CONST. OF AN SVE SYSTEM. THIS WORK WAS PERFORMED UNDER FCR 1. AND IS A CHANGE IN SCOPE.

COMMENTS/Deficiencies

- TAKE FENCING TO DRMO
- TAKE PLASTIC TO LAGOONS
- PLACED 6" PVC CAP (PAINTED RED) OVER EXISTING 2" GAS VALVE TO ENSURE VALVE IS NOT LOST / DAMAGED.

• TWO O/W SERARATORS WERE UNCOVERED DURING EXCAVATION ACTIVITEES. PER FCR 20, POL PHASE II, FWENC DECONTAMINATED THE SEPARATO CUT THEM INTO TWO-FOOT SECTIONS AND DISPOSED OF THEM AT THE OTERO COUNTY LANDF.

ATTENDEES:

GEORGE FISH (ACOE) 6/7/97
CHUCK McCUNTOCK
OINO BONALOO (FWENC)
DREW LESSARD (HAFB)

CC REPRESENTATIVE DATE

CCSM DATE

Holloman AFB
Completion Inspection

INSPECTION CHECKLIST

ITEM: Bldg 800 / SWMU-23 DATE: 6/11/97

Contract Specifications:

MATERIAL	QTY	CONDITION	TESTING	COMMENTS
Backfill	60 CY	GOOD		
asphalt	14 CY	GOOD		

STORAGE CONDITIONS:

SUBMITTALS: Record Documents will be submitted to USACE at the completion of the POC work. The record documents will include:
- Const. drawings
- FCRs
- NCRs
- DQCRs
- all test results
- manifests

INSPECTION CHECKLIST

MATERIAL/EQUIPMENT CERTIFICATIONS: N/A

PREPARATORY SITE CONDITIONS: N/A

CONTRACT VARIANCE: N/A

COMMENTS: Site looks good.

ATTENDEES:

6/17/97

CC REPRESENTATIVE / DATE 6/17/97

OCSM DATE

INSPECTION CHECKLIST

ITEM: DATE: 4/14/97

Contract Specifications:

MATERIAL	QTY	CONDITION	TESTING	COMMENTS
Backhoe	1	good		
5 yd dump	1	good		
Import fill	80 Ton		N/A	
3/4-inch rock chip	20 Ton			Placed to one foot above ground.
Landscaping rock	20 Ton			
40-mil liner	2000 ft²	good		
6-mil liner	3 Rolls	good		
sand bags	30	good		
PID	1	good		

STORAGE CONDITIONS: The PID is stored in the FWENC trailer. All other items are stored outside.

- 82 CY OF contaminated soil was transported to Highway 36 Land Development Co., Deer Trail Co.

SUBMITTALS: Record Documents will be provided to ACOE at the completion of the POC Project. Record Documents will include:

- Construction drawings
- Field change requests
- Non conformance reports
- DQCR's
- Analytical results
- Waste manifests
- All soil test results
- Copies of all inspections

INSPECTION CHECKLIST

MATERIAL/EQUIPMENT CERTIFICATIONS:

PREPARATORY SITE CONDITIONS: SWMU-132 was relatively easy in that the site was adjacent to a large, thick concrete pad that did not have to be touched in order to remediate SWMU-132.

CONTRACT VARIANCE: There is no contract variance. This project was part of FWENCs POL PHASE II RA project. This project was postponed for a number of months due to a serious water leak in the same area as the SWMU-132 site. Once this water leak was repaired, FWENC started work at this site.

COMMENTS: Apparently PCB oil is clear, odorless, can be detected with a PID or the ENSYS field analysis kit. This resulted in collecting two sets of confirmation samples. The analytical from the second set indicated the excavation was clean and could be backfilled. SWMU-132 had minuscule amounts of pesticides, PCBs and the usual hydrocarbons. Months previous, our waste management contractor assured me that the pesticides and PCBs would be no problem. However, when it came time to move the soil, he refused to touch it. FWENC then had Rollins Environmental transport the soil to their treatment facility in Denver.

ATTENDEES: - NO DESCREPANCIES

CHUCK MCCLINTOCK (ACOE)
GEORGE FISH SI 6/17/97
DREW LESSARD - (HAFB)
DINO BONALDO (FWENC)

CC REPRESENTATIVE DATE

CCSM DATE

INSPECTION CHECKLIST

ITEM: DATE: 6/11/97

Contract Specifications:

MATERIAL	QTY	CONDITION	TESTING	COMMENTS
backhoe	1	good		
5 yd dump	1	good		
Bobcat	1	good		
32" Smooth dr	1	good		
Import fill	100 Ton		Proctor in-place densities	Placed in 8-inch loose lifts
3/4" chips	20 Ton			Placed to one-foot above groundwater
Base Course	20 Ton			
Asphalt				
PID	1	good		
40 mil 6-mil plastic	1000 ft 3 roll	good		

STORAGE CONDITIONS: The PID is stored inside the FWENC Trailer. all other materials are stored outside

SUBMITTALS: Record Documents will be submitted to ACOE at the completion of the POL work. The record documents will include:

- Const ruction drawings
- Field change requests
- Non conformance reports
- DQCRs
- All analytical results
- All soil testing results
- Base course gradation tests
- Base course density tests
- Asphalt mix design
- Delivery tickets
- Waste manifests

INSPECTION CHECKLIST

MATERIAL/EQUIPMENT CERTIFICATIONS:

PREPARATORY SITE CONDITIONS: 2-inches of asphalt and 6-inches of concrete had to be removed and cleared before excavation activities could start.

CONTRACT VARIANCE: This work was out of scope. It was executed per FCR No 17.

COMMENTS: Approximately 120 tons of soil was excavated from the site. Only a portion of this higher than 1000 PPM. This soil was transported to Rhino Environmental's land farm in Newman New Mexico.

- TACK COAT, SLASHED ON BLDG 301 WALL, WAS REMOVED.
- NO DISCREPANCIES.

ATTENDEES:

CHUCK MCCLINTOCK (ACOE)
GEORGE FISH 1/17/97
DREW LESSARD (HAFB)
DINO BONALDO (FWENC)

CC REPRESENTATIVE DATE

CCSM DATE

INSPECTION CHECKLIST

ITEM: DATE: 4/14/97

Contract Specifications:

MATERIAL	QTY	CONDITION	TESTING	COMMENTS
Backhoe	1	good		
5 yd Dump	1	good		
Hydraulic hammer	1	good		
Import fill	80 Tons		N/A	
3/4-inch rock chip	20 Tons			
Landscape rock	20 Tons			
40-mil plastic	1000 ft²	good		
6-mil plastic	3 rolls	good		
Sand bags	30	good		
PID	1	good		

STORAGE CONDITIONS: The PID is stored in the FWENC trailer. All other items are stored outside.

SUBMITTALS: Record Documents will be submitted to ACOE at the completion of the POL Phase II Project. The Record Documents will include:

- Construction drawings
- Field change requests
- Non conformance reports
- DQCRs
- Analytical results
- Waste manifests
- All soil test results
- Inspection checklists

INSPECTION CHECKLIST

MATERIAL/EQUIPMENT CERTIFICATIONS:

PREPARATORY SITE CONDITIONS:

CONTRACT VARIANCE: This project is part of FWENC's POL Phase II project. Because of a serious water leak in the area of AOC-A and SWMU-132, FWENC wasn't able to start work until just recently when the water leak was repaired.

COMMENTS: 111 Tons of TRPH contaminated soil has been transported to the Rhino Environmental land farm in Newman, NM. Clean native soil that was excavated at AOC-A was screened and if determined to be clean (less than 1000 PPM for TRPH) was used as backfill in the AOC-A excavation. AOC-A confirmation sample locations and analytical results are attached. The site should receive clean closure from NMED.

ATTENDEES:

CHUCK McCLINTOCK (ACOE)
GEORGE FISH 8/17/97
DINO BONALDO (FWENC)
DREW LESSARD (HAFB)

CC REPRESENTATIVE DATE

CCSM DATE

APPENDIX D

WOT CERTIFICATES OF DESTRUCTION

Underground Storage Tank
(UST)
Certificate of Destruction

UST Site: Building Number 316 (SWMU 17). On Deleware St. of main base across from the base dorms. This bldg. is the F-117 flight simulator.

Ownership Information		
Tank Owner:	Holloman AFB	**Phone:** (505) 475-3931
Address:	49th Support Group, Holloman Air Force Base, N.M. 88330	

Removal Information		
Contractor:	Foster Wheeler Environmental Corp.	**Phone.** (505) 479-2668
Address:	P.O. Box 540 HAFB, N.M. 88330	

Transporter Information		
Transporter:	Foster Wheeler Environmental Corp	**Phone:** (505) 479-2668
Address:	P.O. Box 540 HAFB, N.M. 88330	

Destruction Information		
Contractor:	Indian Environmental Services	**Phone:** (505) 437-5955
Address:	2800 Airport Road, Alamogordo, N.M. 88310	

I hereby certify that I, James Duncan (Signature of contractor certifying system) destroyed said tank listed above on 6-26-96 (Date)

Description of Destruction Process. Both ends were cut from the tank along with all interior piping, ladders etc. The tank will be cut further into prepared sections (18" x 4') for recycling by Basin Pipe & Metal US Hwy. 54 & 70, Alamogordo, New Mexico 88310

Notes or Comments

TANK CLOSURE WORKSHEET
(COMPLETE AFTER CLOSURE)

Tank Owner US Air Force Holloman Phone 505-475-3341
Mailing Address 833 CES/CEV ATTENTION Roger Wilkins Holloman AFB, N.M. 88330
Tank Address SLAMO 17 & 121, BLDG 3160 CYNOSEP, INCT HAFB, NM
Contractor Name FOSTER WHEELER ENV Phone (505) 477-2668
Address PO BOX 540, HAFB NM 88330
Contractor Name _____ Phone _____
Address _____

Tank Closure Date 24 APR 96 # of Tanks Closed 2

I. Tank Closure Initial Procedures (check measures complied with):
- X Obtain recommended safety equipment for all personnel
- X Contact Fire Marshall or other fire officials
- X Bond or ground equipment
- X Drain product from piping and tank
- X Disconnect, then cap or remove piping
- X Remove all residual product from tank
- X Excavate to tank top
- X Remove all tank fixtures
- X Properly purge or inert tank of all flammable vapors using approved method
- X Continually monitor for explosive vapors while tank is being removed

II. Tank Removal
- X Create vent hole
- X Excavate tank using all safety precautions
- X Clean and inspect tank
- X Check excavation for evidence of leaks and notify EID and other proper authorities if leak is found
- X Check vapor levels in tank before transporting
- X Dispose of tank in approved manner

Tank disposal location ALAMOGORDO, NM
City State

How did you assess site for leakage? VISUAL INSPECTION / CLOSURE SAMPLING (TRPH)
Closure report kept at HOLLOMAN AFB NM
NOTE: Immediately report any evidence of leakage to EID at 827-0188

I hereby state that the above information is correct

DINO BONALDO II
Signature of owner or contractor performing work

FOR EID USE ONLY
Notification Received _____ Approved By _____
Inspection Date _____ Inspector _____

FOR TANKS IN **NM**

RETURN COMPLETED FORM TO:

UST Bureau
N.M. Environment Department
P.O. Box 26110
1190 St. Francis Drive
Santa Fe, New Mexico 87502

STATE USE ONLY

I.D. Number

Date Received

GENERAL INFORMATION

Notification is required by Federal law for all underground tanks that have been used to store regulated substances since January 1, 1974, that are in the ground as of May 8, 1986, or that are brought into use after May 8, 1986. The information requested is required by Section 9002 of the Resource Conservation and Recovery Act (RCRA), as amended.

The primary purpose of this notification program is to locate and evaluate underground tanks that store or have stored petroleum or hazardous substances. It is expected that the information you provide will be based on reasonably available records, or, in the absence of such records, your knowledge, belief, or recollection.

Who Must Notify? Section 9002 of RCRA, as amended, requires that, unless exempted, owners of underground tanks that store regulated substances must notify designated State or local agencies of the existence of their tanks. Owner means:

(a) in the case of an underground storage tank in use on November 8, 1984, or brought into use after that date, any person who owns an underground storage tank used for the storage, use, or dispensing of regulated substances, and

(b) in the case of any underground storage tank in use before November 8, 1984, but no longer in use on that date, any person who owned such tank immediately before the discontinuation of its use.

What Tanks Are Included? Underground storage tank is defined as any one or combination of tanks that (1) is used to contain an accumulation of "regulated substances," and (2) whose volume (including connected underground piping) is 10% or more beneath the ground. Some examples are underground tanks storing: 1. gasoline, and oil, or diesel fuel, and 2. industrial solvents, pesticides, herbicides or fumigants.

What Tanks Are Excluded? Tanks removed from the ground are not subject to notification. Other tanks excluded from notification are:

1. farm or residential tanks of 1,100 gallons or less capacity used for storing motor fuel for noncommercial purposes;
2. tanks used for storing heating oil for consumptive use on the premises where stored;
3. septic tanks;
4. pipeline facilities (including gathering lines) regulated under the Natural Gas Pipeline Safety Act of 1968, or the Hazardous Liquid Pipeline Safety Act of 1979, or which is an intrastate pipeline facility regulated under State laws;
5. surface impoundments, pits, ponds, or lagoons;
6. storm water or wastewater collection systems;
7. flow-through process tanks;
8. liquid traps or associated gathering lines directly related to oil or gas production and gathering operations;
9. storage tanks situated in an underground area (such as a basement, cellar, mineworking, drift, shaft, or tunnel) if the storage tank is situated upon or above the surface of the floor.

What Substances Are Covered? The notification requirements apply to underground storage tanks that contain regulated substances. This includes any substance defined as hazardous in section 101 (14) of the Comprehensive Environmental Response, Compensation and Liability Act of 1980 (CERCLA), with the exception of those substances regulated as hazardous waste under Subtitle C of RCRA. It also includes petroleum, e.g., crude oil or any fraction thereof which is liquid at standard conditions of temperature and pressure (60 degrees Fahrenheit and 14.7 pounds per square inch absolute).

Where To Notify? Completed notification forms should be sent to the address given at the top of this page.

When To Notify? 1. Owners of underground storage tanks in use or that have been taken out of operation after January 1, 1974, but still in the ground, must notify by May 8, 1986. 2. Owners who bring underground storage tanks into use after May 8, 1986, must notify within 30 days of bringing the tanks into use.

Penalties: Any owner who knowingly fails to notify or submits false information shall be subject to a civil penalty not to exceed $10,000 for each tank for which notification is not given or for which false information is submitted.

INSTRUCTIONS

Please type or print in ink all items except "signature" in Section V. This form must by completed for each location containing underground storage tanks. If more than 5 tanks are owned at this location, photocopy the reverse side, and staple continuation sheets to this form.

Indicate number of continuation sheets attached: 1

I. OWNERSHIP OF TANK(S)

Name (Corporation, Individual, Public Agency, or Other Entity)

US Air Force - Holloman

Street Address

833 CSG/DEV, ATTN: Angie Williams

County

Otero

City: Holloman AFB State: NM ZIP Code: 88330

Area Code: 505 Phone Number: [illegible]

Type of Owner (Mark all that apply [✓])

- [X] Current
- [ ] Former
- [ ] State or Local Gov't
- [X] Federal Gov't (DOD Facility)
- [ ] Private or Corporate
- [ ] Ownership Unknown

II. LOCATION OF TANK(S)

(If same as Section I, mark box here [X])

Facility Name or Company Site Identifier, as applicable

SEE SECTION I

Street Address or State Road, as applicable

Bldg. # 316

County

Otero

City (nearest): Holloman State: AFB, NM ZIP Code: 88330

Indicate number of tanks at this location: 2

Mark box here if tank(s) are located on land within an Indian reservation or on other Indian trust lands: [ ]

III. CONTACT PERSON AT TANK LOCATION

Name (If same as Section I, mark box here [X]) Job Title Area Code Phone Number

IV. TYPE OF NOTIFICATION

[ ] Mark box here only if this is an amended or subsequent notification for this location.

V. CERTIFICATION (Must be Signed After Completing Sections VI.)

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete.

Official title of owner or owner's authorized representative	Signature	Date Signed

CONTINUE ON REVERSE SIDE

Owner Name (from Section I) [illegible] Location (from Section II) SWMU 17 & 121 Page No. 2 of 2 Pages

VI. DESCRIPTION OF UNDERGROUND STORAGE TANKS (Complete for each tank at this location)

Tank Identification No. (e.g., ABC-123), or Arbitrarily Assigned Sequential Number (e.g., 1,2,3...)	Tank No. SWMU 17	Tank No. SWMU 121	Tank No.	Tank No.	Tank No.
Status of Tank (Mark all that apply ☒) — Currently in Use	☒	☒			
Temporarily Out of Use					
Permanently Out of Use	■	■			
Brought into Use after 5/8/86					
2. Estimated Age (Years)	15	15			
3. Estimated Total Capacity (Gallons)	250	500			
4. Material of Construction (Mark one ☒) — Steel		■			
Concrete	■				
Fiberglass Reinforced Plastic					
Unknown					
Other, Please Specify					
5. Internal Protection (Mark all that apply ☒) — Cathodic Protection					
Interior Lining (e.g., epoxy resins)					
None	■	■			
Unknown					
Other, Please Specify					
6. External Protection (Mark all that apply ☒) — Cathodic Protection					
Coated (e.g., asphaltic)					
Fiberglass Reinforced Plastic Coated					
None	■	■			
Unknown					
Other, Please Specify					
7. Piping (Mark all that apply ☒) — Bare Steel					
Galvanized Steel					
Fiberglass Reinforced Plastic	■	■			
Cathodically Protected					
Unknown					
Other, Please Specify					
8. Substance Currently or Last Stored in Greatest Quantity by Volume (Mark all that apply ☒) — a. Empty					
b. Petroleum					
Diesel					
Kerosene					
Gasoline (leaded or unleaded blended)					
Used Oil	■	■			
Other, Please Specify					
c. Hazardous Substance					
Please indicate Name of Principal CERCLA Substance or Chemical Abstract Service (CAS) No.					
Mark box ☒ if tank stores a mixture of substances					
d. Unknown					
9. Additional Information (for tanks permanently taken out of service) — a. Estimated date last used (mo/yr)	04/96	04/96	/	/	/
b. Estimated quantity of substance remaining (gal.)	Ø	Ø			
c. Mark box ☒ if tank was filled with inert material (e.g., sand, concrete)					

EBASCO - SANTA FE

RECORD OF TELEPHONE CONVERSATION

DATE: 8 APR 96

TO: MR. ABEL RAMIREZ (NMED)

FROM: MR. DINO BONALDO (FWENC)

CLIENT/PROJECT: POL PHASE II, HAFB

SUBJECT: REMAINING WASTE OIL TANK REMOVALS

CHARGE NO: Client Symbol: _____ OFS No: _____ Dept: _____

SEE ATTACHED SHEET.

BY DINO BONALDO II (Name) FIELD ENGINEER (Title) HOLLOMAN AFB (Dept. No.)

cc:

RECORD OF CONVERSATION

THE FOLLOWING SUMMARIZES THE TELEPHONE CONVERSATION, ON 8 APR 96, BETWEEN MR. DINO BONALDO (FWENC) AND MR. ABEL RAMIREZ (NMED) REGARDING THE REMAINING WASTE OIL TANK'S (WOT) TO BE EXCAVATED (3) AT HAFB.

- MR. BONALDO INFORMED MR. RAMIREZ OF THE EXPECTED TANK EXCAVATIONS (24 HOUR NOTIFICATION)
- MR. RAMIREZ INFORMED MR. BONALDO THAT BECAUSE THE TANKS WERE OIL/WATER SEPERATORS (OWS) & WOT (NON-REGULATED SUBSTANCES), THEY WERE NOT CONSIDERED UST'S.
- MR. BONALDO STATED THE TANKS WOULD BE TREAT AS UST'S DURING EXCAVATION.
- MR. RAMIREZ GAVE THE FOLLOWING CRITERIA TO BE FOLLOWED, DUE TO THE FACT HE WOULD BE ON VACATION AND DID NOT NEED TO VISIT/INSPECT THE SITES DURING EXCAVATION:
  - COMPLETE FAXED PAPERWORK (EPA FORM 7530-1 & TANK CLOSURE WORKSHEET)
  - COPY OF ANY SAMPLING PERFORMED (RESULTS SENT LATER)
  - DETAILED MAP OF EACH SITE / PICTURES IF POSSIBLE
  - INDICATE "OWS REMOVAL" ON COMPLETED PACKAGE TO BESE
- ALSO, MR. BONALDO INDICATED THE ORIGINAL 30 DAY NOTIFICATION (DATED 12 JAN 96) HAD EXPIRED. MR. RAMIRE SAID NO ADDITIONAL NOTIFICATION WAS NEEDED.