



**DEPARTMENT OF THE AIR FORCE
27TH CIVIL ENGINEER SQUADRON (ACC)
CANNON AIR FORCE BASE NEW MEXICO**

14 Jun 05

Lieutenant Colonel Alexander P. Karibian
Commander
506 N DL Ingram Blvd
Cannon AFB NM 88103-5003

Mr. David Cobrain
Hazardous Waste Bureau
New Mexico Environment Department
2905 Rodeo Dr E Building 1
Santa Fe NM 87505-6303



Dear Mr. Cobrain

Enclosed for your review and records are two copies of the Voluntary Corrective Measures Report Fire Training Area No. 4 (FTA-4) Cannon Air Force Base, New Mexico, dated May 05.

The purpose of this report is to explain the corrective measures completed at FTA-4 to facilitate site closure.

If you have any questions regarding this information, please contact Mrs. Sheila Newman, Environmental Flight, at (505) 784-6391 or email sheila.newman@cannon.af.mil.

Sincerely

ALEXANDER P. KARIBIAN, Lt Col, USAF

Attachments:

Voluntary Corrective Measures Report FTA-4 Cannon AFB, NM, dated May 05 (2 cys)

**Voluntary Corrective Measures Report
Fire Training Area No. 4 (FTA-4)
Cannon Air Force Base, New Mexico**

May 2005



Prepared for:

**27 CE/CEV
Cannon Air Force Base
New Mexico**





BILL RICHARDSON
GOVERNOR

State of New Mexico
ENVIRONMENT DEPARTMENT

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RON CURRY
SECRETARY

DERRITH WATCHMAN-MOORE
DEPUTY SECRETARY

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

March 7, 2006

Colonel John D. Posner
Commander 27th Fighter Wing
100 D.L. Ingram Boulevard
Cannon Air Force Base, New Mexico 88103-5214

SUBJECT: REQUIREMENT FOR FURTHER CORRECTIVE ACTION
VOLUNTARY CORRECTIVE MEASURES REPORT FIRE TRAINING
AREA No. 4 (FTA-4)
CANNON AIR FORCE BASE, NEW MEXICO
CANNON AIR FORCE BASE
EPA ID NO. NM7572124454
CAFB-05-002

Dear Colonel Posner:

The New Mexico Environment Department (NMED) has completed its review of Cannon Air Force Base's (CAFB's) 2005 "*Voluntary Corrective Measures Report Fire Training Area No. 4 (FTA-4)*" Report. NMED hereby approves the report. However, fuel contaminated soil is still present at the site at concentrations greater than industrial total petroleum hydrocarbons (TPH) screening guidelines. CAFB must submit a work plan describing activities to achieve clean closure of the site. CAFB must use the clean up levels specified in the New Mexico Environment Department guidance document titled *Total Petroleum (TPH) Screening Levels*, (November, 2005). These guidelines can be found at <http://www.nmenv.state.nm.us/hwb/data/guidance>.

Colonel John D. Posner

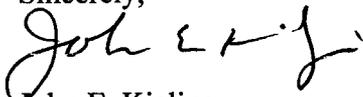
March 7, 2006

Page 2

6SRP06
CAFB must submit the work plan for remediation of residual petroleum-related contamination within 180 days of receipt of this letter.

If you have any questions concerning this letter, please contact Tammy Diaz of my staff at 505-428-2552.

Sincerely,



John E. Kieling

Manager

Permits Management Program

JEK:td

cc: Dave Cobrain, NMED HWB
Tammy Diaz, NMED HWB
C. Frischkorn, NMED HWB
L. King, EPA Region 6 (6PD-N)
Pete Zamie, CAFB

File: Reading File & CAFB 2005 File

BULLET BACKGROUND PAPER

ON

FIRE TRAINING AREA 4 SOLID WASTE MANAGEMENT UNIT (SWMU) 109 VOLUNTARY CORRECTIVE MEASURES REPORT WAY AHEAD

- Fire Training Area 4 (FTA-4) was activated in 1976
 - It consisted of a shallow concrete pit containing a mock aircraft
 - Commingled waste oils, solvents and recovered JP-4 jet fuel were burned during fire training exercises until 1995 when a replacement fire training area was built at a new location
 - FTA-4 underwent various modifications during its lifetime which included addition of an aboveground fuel storage tank with pipe line to the pit and an oil/water separator to eliminate excess fuel after each training exercise and consequently four SWMUs were created
 - SWMU 109, Fire Training Pit
 - SWMU 110, Underground Waste Oil Tank (Removed in 1989)
 - SWMU 111, Unlined Pit (Backfilled with clean soil in 1985)
 - SWMU 112, Oil/Water Separator (Removed in 1997)
 - The only SWMU with any contamination remaining is 109 (See attached Voluntary Corrective Measure Report)
- Funding was received for a Corrective Measures Study (CMS) implementation; this was prepared in 2001 and recommended soil removal for SWMU 109 as a corrective action to reduce the total petroleum hydrocarbon (TPH) contamination in the soil
 - New Mexico Environment Department (NMED) reviewed CMS in 2004 and requested additional soil sampling to determine if any natural attenuation had reduced the contaminant levels
 - Further sampling determined that significant attenuation had not occurred
- Funding for FTA-4 contract was scheduled to expire, so subsequently a Voluntary Corrective Measure (VCM) soil removal project was awarded in 2005
 - During the VCM remediation action, it was determined that sufficient funds were not available to do a complete cleanup at FTA-4 due to amount of contaminated soil needing to be removed and hauled off-site

- The contractor removed the most contaminated soil with the exception of three “hot spots” which were delineated during confirmation sampling
- These three “hot spots” are the areas NMED described as fuel contaminated soil in their 7 Mar 06 letter
- After the soil was removed, the site closure report was completed and submitted to NMED in Jul 05. In response, NMED generated the Requirement for Further Corrective Action (FCA) (7 Mar 06 letter)
- Two alternatives exist to address this issue
 - The first is to submit a request for No Further Action (NFA) based on the low risk presented to ecological receptors or migration to groundwater which is 300 feet below the ground surface
 - A NFA request has been prepared and reviewed by CEV
 - If the NFA Report is approved by NMED, there will be little cost but may have some follow-on testing or controls associated with it (signs)
 - The second is to prepare a work plan to completely dispose of all the contaminated soil that exceeds the state’s screening levels
 - The estimated cost to remediate the hot spots is approximately \$250K
 - A copy of the FCA request has been sent to both the Omaha District of the Corps of Engineers which is the construction agent and HQ/ACC to request funding for the requested work plan and additional cleanup
 - It is unknown when funds will be available for either the work plan or the cleanup and an extension to the 180 day suspense may be necessary
 - Alternative 2 is more costly but would complete the cleanup and allow for removal of the site from the permit as part of an NFA request
- Recommend that we proceed with Alternative 1 as a response to the FCA

**VOLUNTARY CORRECTIVE MEASURES REPORT
FIRE TRAINING AREA NO. 4 (FTA-4)
CANNON AIR FORCE BASE, NEW MEXICO**

FINAL

Prepared for:

27 CE/CEV
Cannon Air Force Base, New Mexico
and
HQ ACC/CEV
Langley Air Force Base, Virginia

Prepared by:

Tetra Tech EC, Inc.
143 Union Boulevard, Suite 1010
Lakewood, Colorado 80228

Under Contract No. DACW45-94-D-0003

Delivery Order 28 Work Authorization Directive 1

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

May 2005

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LIST OF ACRONYMS AND ABBREVIATIONS

AFB	Air Force Base
Base	Cannon Air Force Base
CAO	corrective action objective
CMS	Corrective Measures Study
CQC	Construction Quality Control
DQCR	Daily Quality Control Report
DRO	diesel-range organics
EPA	U.S. Environmental Protection Agency
ft	foot, feet
Final Work Plan Addendum	Final Work Plan Addendum for the Removal of Contaminated Soil at SWMU 109 (Fire Training Area No. 4)
FTA-4	Fire Training Area No. 4
Foster Wheeler Environmental	Foster Wheeler Environmental, Inc.
mg/kg	milligrams per kilograms
PCS	petroleum-contaminated soil
QA/QC	quality assurance/quality control
Rhino Environmental	Rhino Environmental, Inc.
SWMU	solid waste management unit
TCLP	toxicity characteristic procedure
TN&A	TN & Associates
TPH	total petroleum hydrocarbons
TtEC	Tetra Tech EC, Inc.
USACE	U.S. Army Corps of Engineers
VCM	Voluntary Corrective Measure

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1. INTRODUCTION

1.1 Purpose

This report documents the implementation of a Voluntary Corrective Measure (VCM) at Environmental Restoration Program site Fire Training Area No. 4 (FTA-4) at Cannon Air Force Base (AFB). FTA-4 consists of the following four solid waste management units (SWMUs):

- SWMU 109, Fire Training Pit
- SWMU 110, Underground Waste Oil Tank
- SWMU 111, Unlined Pit
- SWMU 112, Oil/Water Separator

The primary purpose of the VCM was to remove petroleum-contaminated soil (PCS) from SWMU 109, an area covering approximately 7,000 square feet (ft). This VCM involved removing the top 2 ft of soil from the area.

The Corrective Measures Study (CMS) report for FTA-4 was prepared in 2001 (Foster Wheeler Environmental, 2001). The corrective action objective (CAO) developed in the CMS for SWMUs 109, 110, and 111 was to meet the then-current total petroleum hydrocarbon (TPH) action level of 5,000 milligrams per kilogram (mg/kg) in soil. No CAO was developed for SWMU 112, because the oil/water separator and associated leach field at this site had been removed previously and all related soil contamination was addressed under the corrective action for SWMU 111.

The recommendations in the CMS included No Action for SWMUs 110 and 111 and passive bioventing for SWMU 109. Passive bioventing was selected as the remedy for SWMU 109 based on data from 1991 and 1997. To determine the current site conditions so that design parameters for the remedy could be established, a Phase I Soil Investigation was conducted at SWMU 109 in November 2004. The results of this investigation (TN&A, 2005) supported a decision to excavate and dispose the contaminated soil rather than implement passive bioventing.

1.2 Report Organization

The VCM Report is organized as follows:

- Section 1 contains the project purpose and organization.

- Section 2 summarizes the site description and history.
- Section 3 provides a description of VCM activities, including field, quality assurance/quality control (QA/QC), and health and safety activities.
- Section 4 provides an overview of the excavation, sampling and disposal activities, and a summary of project health and safety considerations.
- Section 5 presents the conclusions and recommendations for the site.

Supporting information for the VCM is presented in the following appendices:

- Appendix A, Analytical Data
- Appendix B, Site Inspections and Quality Control
- Appendix C, Waste Manifests
- Appendix D, Site Photographs
- Appendix E, Final Work Plan Addendum for the Removal of Contaminated Soil at SWMU 109, which includes the Draft Work Plan for the Removal of Contaminated Soil at SWMU 109

2. SITE DESCRIPTION AND HISTORY

2.1 Project Background

Cannon AFB is located in Curry County, New Mexico, approximately 7 miles west of the city of Clovis. The Base occupies 4,320 acres, primarily consisting of the airfield and associated operations, maintenance, and support facilities that are located northwest of the airfield. Housing facilities are located in the former northwest portion of the Base, west of Highway 277 and north of Highway 60. Additional Base support facilities, such as the former wastewater lagoons, munitions storage area, and current fire department training area, are located south and east of the airfield. FTA-4 is located near the southeastern corner of Cannon AFB, approximately 500 ft southeast of the end of the Abandoned Runway (Figure 1).

2.2 Site History

SWMU 109 was used as a fuel truck cleaning area between 1961 and 1974. An estimated 3,000 to 4,000 gallons of fuel percolated into the ground as a result of these activities (Walk, Haydel, and Associates, 1990). In 1974, the site was activated as a fire training area. Commingled waste oils, solvents, and recovered jet fuel JP-4 were burned during fire training exercises conducted from 1974 to 1975. An underground waste oil tank (SWMU 110) was installed in 1975, and until 1995 only recovered JP-4 was burned during exercises. After 1995, the SWMU was no longer used as a fire training area (Harza, 1997).

Prior to 1985, runoff generated during fire training exercises at SWMU 109 collected in the unlined pit at SWMU 111. The pit was backfilled in 1985 prior to the installation of the oil/water separator (SWMU 112). The pit was filled with gravel and included internal drainage features that conveyed excess fuel and water to the oil/water separator (SWMU 112) located in the northeastern part of the site. These drainage features included an underground pipe running from the pit to the oil/water separator. The separator was removed in 1997; however, the underground pipe is still in place. A mock airplane was formerly located in the center of the pit.

Only one corrective action was recommended in the CMS—passive bioventing at SWMU 109. No action was selected for SWMU 110 and SWMU 111. The oil/water separator had already been removed from SWMU 112 and the TPH-contaminated soil was addressed under SWMU 111, for which no action was selected.

Soil boring samples collected during the Remedial Investigation (Woodward-Clyde, 1992) and Phase II RFI (Harza, 1997) indicated that TPH concentrations exceeding 5,000 mg/kg were detected at four

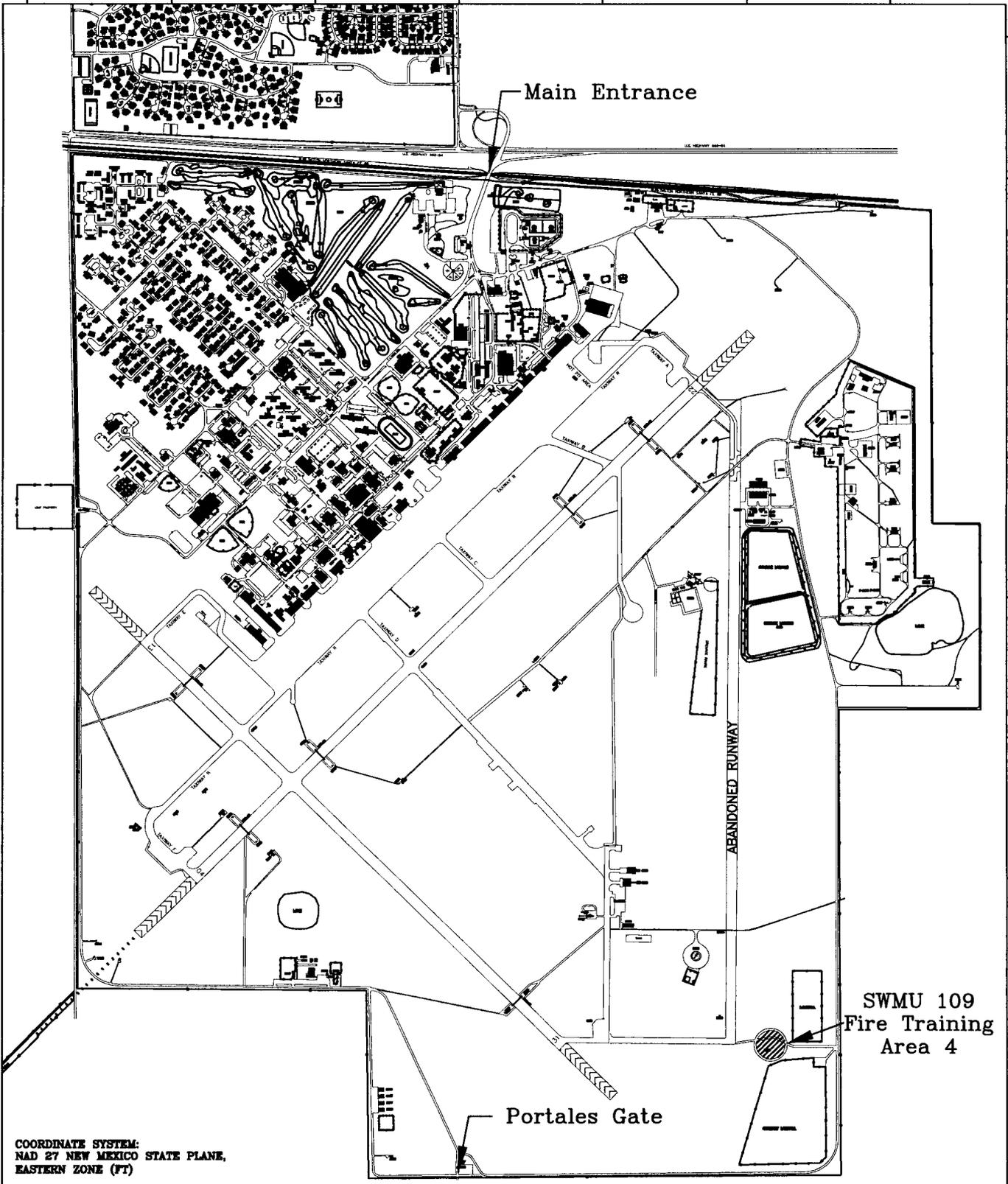
locations associated with SWMU 109. The maximum TPH concentration (38,500 mg/kg) was detected at a depth of 0 to 0.5 ft (Woodward-Clyde, 1992).

Because of the limited historical data, additional soil sampling was performed in November 2004. The associated data review and the sampling plan are presented in the Evaluation of Total Petroleum Hydrocarbons in Soil at Fire-Training Area 4 Technical Memorandum (TtFW, 2004). The sampling results are presented in the Phase I Investigation Report (TN&A, 2005). The remedy selection was revisited in 2004 and it was decided to excavate and dispose contaminated soils at SWMU 109, rather than to implement bioventing.

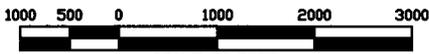
The revised remedy is described in detail in the Final Work Plan Addendum for the Removal of Contaminated Soil at SWMU 109 (Fire Training Area No. 4) (Final Work Plan Addendum) (TtEC, 2005) and is included in Appendix E. The remedy was completed during April 2005 and is described in Section 3 of this report.

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1,228,000
1,226,000



COORDINATE SYSTEM:
NAD 27 NEW MEXICO STATE PLANE,
EASTERN ZONE (FT)



SCALE IN FEET
PREPARED BY:



TETRA TECH EC, INC.



Voluntary Corrective Measure
SWMU 109 - Fire Training Area 4
Cannon Air Force Base, New Mexico
U.S. Army Corps of Engineers, Omaha District

Fire Training Area 4
Location Map

Date: 05/25/05

File Name: Fig 1_Final.dwg

Figure 1

3. DESCRIPTION OF VCM ACTIVITIES

Tetra Tech EC, Inc. (TtEC) and TN & Associates (TN&A) conducted the VCM at SWMU 109 in accordance with the approved work plan addendum (Appendix E). Field activities were performed in two phases between March 28 and April 22, 2005, as shown in the project schedule presented in Table 3-1. TtEC performed mobilization, soil characterization, excavation, stockpiling, and confirmation sampling activities between March 28 and April 1 and provided waste sample results to the U.S. Army Corps of Engineers (USACE), the Base, and TN&A on April 6. TN&A completed the waste disposal, hauling, and demobilization activities between April 18 and April 22. Photographs taken during sampling and excavation are presented in Appendix D.

Table 3-1. Project Schedule

Task	Start Date	End Date	Duration
TtEC Tasks			
Mobilization	03/28/05	03/28/05	1 day
Soil Characterization Sampling and Shipping	03/29/05	03/29/05	<1 day
Excavation and Stockpiling	03/29/05	03/31/05	3 days
Excavation Demobilization and Confirmation Sampling	04/1/05	04/1/05	1 day
Soil Results to USACE, Cannon AFB, and TN&A		04/6/05	
TN&A Tasks			
Waste Disposal Hauling and Backfilling	04/18/05	04/22/05	5 days
Final Demobilization and Site Restoration	04/22/05	04/22/05	1 day

3.1 Field Activities

The purpose of the field activities was to remove PCS from the area of the former concrete pad within SWMU 109. Figure 2 shows the outline of the excavation as well as the confirmation sampling locations. The contaminated soil was excavated and stockpiled prior to disposal. Field activities were conducted in two phases by TtEC and TN&A as indicated below:

- Phase 1 (TtEC)
 - Site mobilization
 - Excavation and stockpiling of approximately 500 cubic yards (equivalent to 740 tons) of PCS from the area or the former concrete pad within SWMU 109
 - Confirmation sampling of the excavation sidewalls and floor and sampling of the soil to be disposed offsite for the purpose of waste characterization

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1,227,740

1,227,710

1,227,680

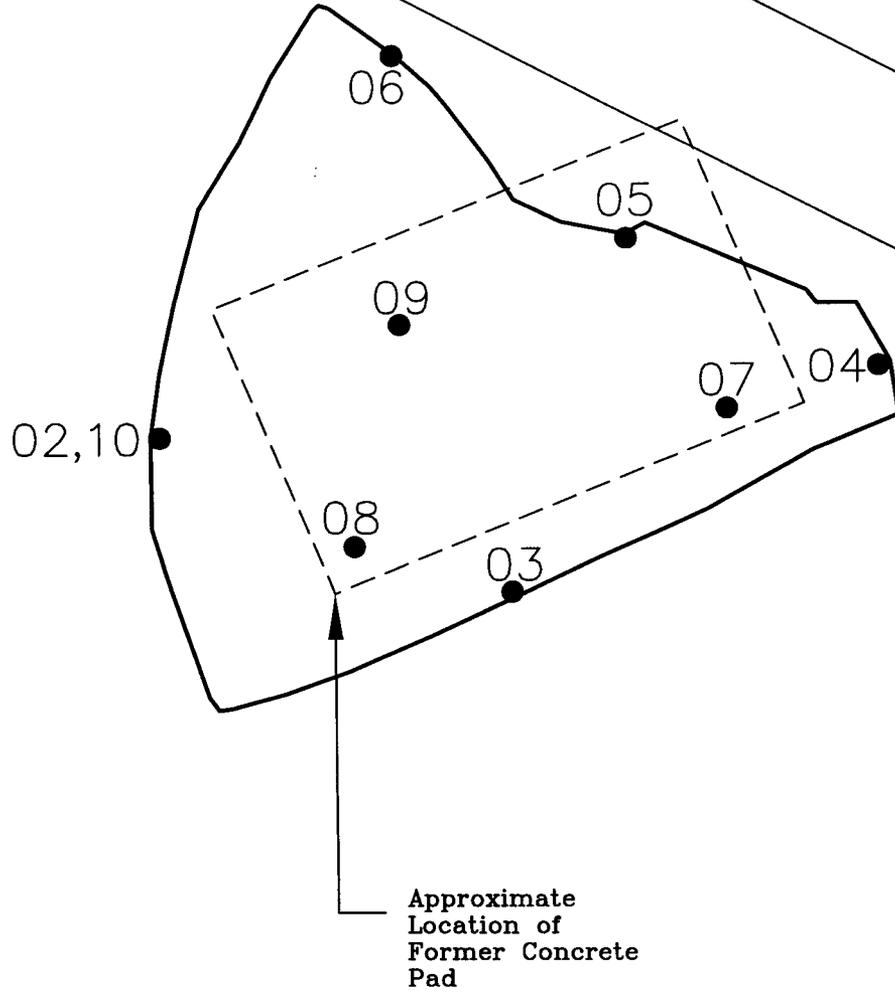
1,227,650

1,227,620

1,227,590

1,227,560

1,227,530



COORDINATE SYSTEM:
NAD 27 NEW MEXICO STATE PLANE,
EASTERN ZONE (FT)

Legend
 — Extent of Excavation
 ● Confirmation Sampling Points

Voluntary Corrective Measure
 SWMU 109 - Fire Training Area 4
 Cannon Air Force Base, New Mexico
 U.S. Army Corps of Engineers, Omaha District

Extent of Excavation and
 Confirmation Sample Locations

Date: 05/25/05
 File Name: Fig 2_Final.dwg

Figure 2



SCALE IN FEET
PREPARED BY:



TETRA TECH EC, INC.



- Phase 2 (TN&A)
 - Offsite transportation and disposal of up to 750 tons of PCS
 - Excavation backfilling, compacting, and grading
 - Site demobilization

All field activities were performed in accordance with the Draft Work Plan (Foster Wheeler Environmental, 2000) and the Final Work Plan Addendum (TtEC, 2005), included in Appendix E.

3.1.1 Excavation and Waste Characterization

Prior to excavating, one sample was collected from 0 to 2 ft using a hand auger within the excavation footprint where the highest levels of contamination were expected to exist. The purpose of this sample was to provide data for waste characterization of the PCS. The waste characterization sample was analyzed for the following parameters:

- TPH-diesel-range organics (DRO)—U.S. Environmental Protection Agency (EPA) SW-846 method modified 8015M
- Toxicity characteristic leaching procedure (TCLP) volatile organic compounds—EPA SW-846 method 1311/8260
- TCLP semivolatile organic compounds—EPA SW-846 method 1311/8270
- TCLP pesticides—EPA SW-846 method 1311/8081
- TCLP herbicides—EPA SW-846 method 1311/8151
- TCLP metals—EPA SW-846 method 1311/6010B and 7470A
- Ignitability—EPA SW-846 method 1311/1010
- Reactivity (cyanide and sulfide)—EPA SW-846 method Chapter 7

Based on the analytical results of the waste sample, the PCS was characterized as nonhazardous waste and eligible for disposal at the permitted Rhino Environmental Inc. (Rhino Environmental) landfarm facility in Hobbs, New Mexico.

PCS was excavated by Rhino Environmental with oversight from TtEC from within the delineated footprint and stockpiled onsite in a temporary storage area. The stockpile area was bermed and lined and covered in plastic to prevent cross contamination and runoff from the PCS during the 2-week period between the excavation and disposal and backfilling activities. During Phase 1, the stockpile was covered with plastic to prevent potential erosion because of wind or precipitation.

A total of approximately 740 tons of PCS soil was excavated and transported from FTA-4 for offsite disposal at the Rhino Environmental landfarm facility. All soil was exported under nonhazardous waste manifests that were signed by a Cannon AFB representative. Copies of the waste manifests are provided in Appendix C.

3.1.2 Confirmation Sampling

Rhino Environmental performed excavation and stockpiling activities with oversight from TtEC. The excavation was performed using a track excavator and stockpiling was performed with a wheel loader.

Confirmation samples were collected by TtEC from the sidewalls and floor of the excavation to verify the concentrations of petroleum contamination remaining in place prior to backfilling. Five discrete samples were collected at equally spaced intervals along the sidewalls and three samples were collected from the floor of the excavation. Confirmation samples were analyzed for TPH-DRO using EPA SW-846 method modified 8015M. Table 3-2 presents a summary of the TPH-DRO results for confirmation samples. There were two exceedances of the TPH-DRO regulatory guideline of 940 mg/kg (NMED, 2003). The highest detection of 7,200 mg/kg occurred in the sample collected from the southeastern wall of the excavation. The other exceedance was on the western side of the excavation floor (2,200 mg/kg). The exceedance of the duplicate sample result from the western excavation sidewall (990 mg/kg) was not considered significant. Results from the analytical laboratory are provided in Appendix A.

3.1.3 Backfilling, Compaction, and Grading Activities

Rhino Environmental performed backfilling, compaction, and grading activities with oversight from TN&A. The SWMU 109 excavation was completely backfilled using certified clean soil. The surface was graded to a slight mound to allow for settlement and to provide positive drainage. The first loads of clean fill material was imported from Rhino Environmental's landfarm in Hobbs, New Mexico. Additional fill material was brought in from a second source on the property of Clovis Concrete in Clovis, New Mexico, on April 22. A total of approximately 800 tons of clean soil was imported to backfill the excavation.

Table 3-2. TPH-DRO Analytical Results for Confirmation Samples

Sample ID	Location	TPH-DRO (mg/kg)	Exceedance of Regulatory Standard (940 mg/kg)	Comments
C109WEW02	West Excavation Sidewall	810	No	
C109WEWED10	West Excavation Sidewall (Duplicate)	990	Yes	Duplicate of above sample
C109SEW03	Southeast Excavation Sidewall	7,200	Yes	High level of TPH-DRO
C109EEW04	East Excavation sidewall	9.9	No	
C109NEW05	North Excavation Sidewall	20	No	
C109NEEW06	Northeast Excavation Sidewall	7.5	No	
C109EEF07	East Excavation Floor	630	No	
C109WEF08	West Excavation Floor	2,200	Yes	High level of TPH-DRO
C109MEF09	Middle of Excavation Floor	210	No	

Site restoration consisted of backfilling, compaction, and grading activities. Both backfilling and compacting were performed using a wheel loader. Table 3-3 presents summary soil volumes for excavated and backfilled soil.

Table 3-3. Soil Volumes Excavated and Backfilled at SWMU 109

Date	Stockpile Removed (tons)	Clean Fill (tons)
04/18/05	70.665	33.080
04/19/05	175.920	133.985
04/20/05	175.440	147.145
04/21/05	172.180	114.525
04/22/05	149.265	264.905
Subtotal	743.470	693.640
03/29/05		106.860
Total Estimated Clean Fill		800.500

3.1.4 Site Demobilization

Demobilization was conducted in accordance with the Work Plan Addendum (TtEC, 2005) and consisted of removing all equipment, cleaning the project site, inspecting the work, and certifying completion.

3.2 Quality Assurance/Quality Control Summary

All activities were conducted in accordance with the project-specific Construction Quality Control (CQC) Plan in the Work Plan (Foster Wheeler Environmental, 2000; TtEC, 2005). The CQC Plan combined the QA/QC requirements of the USACE-Omaha District and Base with the TtEC QC program.

Preparatory, initial, and follow-up phase inspections were performed at the site in accordance with the Work Plan. Results of the inspections are presented in Appendix B.

3.3 Health and Safety

All field activities were conducted in accordance with the Basewide Health and Safety Plan and project-specific Site Safety and Health Plan contained in the Draft Work Plan (Foster Wheeler Environmental, 2000). All safety zones were established and maintained throughout construction operations. There were no Occupational Safety and Health Administration recordable or lost time incidents or accidents associated with this effort.

The Site Supervisor performed daily health and safety awareness meetings. The Site Health and Safety Officer conducted site inspections daily. Equipment was also inspected daily and reported in the Daily Quality Control Reports (DQCRs), which are maintained by USACE. There were no significant findings as a result of these inspections.

4. CONSTRUCTION DOCUMENTATION

4.1 Record Drawings

No Record Drawings were made of this project.

4.2 Completion Inspection Reports

The Completion Inspection Report (punch list) is presented in Appendix B.

4.3 Waste Manifests

Copies of the waste manifests for the excavated soil are presented in Appendix C.

4.4 Variance Reports

There were no variance reports generated for this project.

4.5 Site Inspections and Quality Control Reporting

The DQCRs from field efforts were submitted to USACE daily during the March and April 2005 field activities. Copies of the DQCRs are provided in Appendix B.

4.6 Nonconformance Reports

There were no Nonconformance Reports generated during the field activities.

4.7 Site Photographs

Photographs of the site taken throughout construction are presented in Appendix D.

4.8 Certified Payroll

Certified payroll documentation has been submitted to USACE and is not included in this document.

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5. CONCLUSIONS AND RECOMMENDATIONS

The confirmation sampling results confirmed that remediation of FTA-4 was completed through the removal of the contaminated soil. On April 22, 2005, Ms. Donna Russell, the USACE Project Engineer, visited the excavation site and approved the final backfilling and site grading.

Based on the work completed at SWMU 109 and confirmation that contaminated soil still exists within the footprint of the excavation, additional corrective action is required. Future discussion with the New Mexico Environment Department should focus on the requirements for cleanup since the CAO in the CMS has been superseded by more recent guidance from the state.

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6. REFERENCES

- Foster Wheeler Environmental (Foster Wheeler Environmental Corporation)
2001 *Final Corrective Measures Study Report for SWMUs 109, 110, 111, and 112—Fire Training Area Four. Cannon Air Force Base, New Mexico. December.*
- 2000 *Draft Work Plan for the Removal of Contaminated Soil at SWMU 109, Cannon Air Force Base, Clovis, New Mexico. May.*
- Harza (Harza Environmental Services)
1997 *Phase II RCRA Facility Investigation Report (Draft), Cannon Air Force, New Mexico. August.*
- NMED (New Mexico Environment Department)
2003 *Total Petroleum Hydrocarbon (TPH) Screening Guidelines. June 24, 2004.*
- TN&A (TN & Associates)
2005 *Phase 1 Investigation at Fire Training Area 04, Cannon Air Force Base, New Mexico. January.*
- TtEC (Tetra Tech EC, Inc.)
2005 *Final Work Plan Addendum for the Removal of Contaminated Soil at SWMU 109 (Fire Training Area No. 4). March.*
- TtFW (Tetra Tech FW, Inc.)
2004 *Technical Memorandum, Evaluation of Total Petroleum Hydrocarbons in Soil at Fire-Training Area 4. May.*
- USACE (U.S. Army Corps of Engineers)
2003 *Safety and Health Requirement, EM 385-1-1. November.*
- 2002 *General Chemistry Supplement to the Scope of Services, Revision 2. November.*
- Walk, Haydel, and Associates (Walk, Haydel, and Associates, Inc.)
1990 *Final Installation Restoration Program Remedial Investigations, Cannon Air Force Base, New Mexico. January.*
- Woodward-Clyde (Woodward-Clyde Consultants)
1992 *Remedial Investigation Report for 18 Solid Waste Management Units, Cannon Air Force Base, New Mexico. October.*

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Appendix A
Analytical Data

Analytical Results for Stockpile Soils

Analytical Report For 503147

for

Tetra Tech - FW

Project Manager : Pam Moss

Project Name : Cannon AFB FTA4

April 5, 2005

GPL

Laboratories

**GPL Laboratories, LLLP Certifies that the test results meet all requirements of the
NELAC Standards unless otherwise noted.**

**Reviewed by,
Project Manager**

**Approved by,
Laboratory Director**

**7210A Corporate CT Frederick, MD 21703 Phone (301) 694-5310 Fax: (301) 620-0731
www.gplab.com**

GPL LABORATORIES, LLLP

Summary of Analytical Results

Client ID: C109SP01
GPL ID: 503147-001-001-1/1
Matrix: SOIL
Date Collected: 03/29/2005
Date Received: 03/30/2005

Prep Method:
Prep Date:
Prep Time:
Prep Batch:

Analytical Method: CLP_SOLIDS
Date Analyzed: 04/01/2005
Time Analyzed: 09:30
Analysis Batch: 75208

Parameter	Result	Rep Limit	Units	Qualifier	D.F.
Percent Solids	93	1.0	%		1

GPL LABORATORIES, LLLP

Summary of Analytical Results

Client ID: C109SP01
GPL ID: 503147-001-005-1/1
Matrix: SOIL
Date Collected: 03/29/2005
Date Received: 03/30/2005

Prep Method:
Prep Date:
Prep Time:
Prep Batch:

Analytical Method: SW1010
Date Analyzed: 03/30/2005
Time Analyzed: 00:00
Analysis Batch: 75194

Parameter	Result	Rep Limit	Units	Qualifier	D.F.
Flash Point	BQL	100	DC	U	1

GPL LABORATORIES, LLLP

Summary of Analytical Results

Client ID: C109SP01
GPL ID: 503147-001-002-1/3
Matrix: SOIL
Date Collected: 03/29/2005
Date Received: 03/30/2005

Prep Method: SW3010A
Prep Date: 03/31/2005
Prep Time: 00:00
Prep Batch: 74647

Analytical Method: SW6010B_TCLP
Date Analyzed: 04/01/2005
Time Analyzed: 06:24
Analysis Batch: 19274

Parameter	Result	Rep Limit	Units	Qualifier	D.F.
Arsenic	BQL	200	ug/L	U	1
Barium	2090	1000	ug/L		1
Cadmium	BQL	60	ug/L	U	1
Chromium	BQL	50	ug/L	U	1
Lead	BQL	100	ug/L	U	1
Selenium	BQL	200	ug/L	U	1
Silver	BQL	30	ug/L	U	1

GPL LABORATORIES, LLLP

Summary of Analytical Results

Client ID: C109SP01
GPL ID: 503147-001-002-1/3
Matrix: SOIL
Date Collected: 03/29/2005
Date Received: 03/30/2005

Prep Method: SW7470A_DIG
Prep Date: 03/31/2005
Prep Time: 14:00
Prep Batch: 74649

Analytical Method: SW7471A_TCLP
Date Analyzed: 04/01/2005
Time Analyzed: 11:16
Analysis Batch: 19274

Parameter	Result	Rep Limit	Units	Qualifier	D.F.
Mercury	BQL	2	ug/L	U	1

GPL LABORATORIES, LLLP

Summary of Analytical Results

Client ID: C109SP01DL
GPL ID: 503147-001-001-1/1
Matrix: SOIL
Date Collected: 03/29/2005
Date Received: 03/30/2005

Prep Method: SW3550
Prep Date: 03/31/2005
Prep Time: 00:00
Prep Batch: 74628

Analytical Method: SW8015DRO
Date Analyzed: 03/31/2005
Time Analyzed: 13:32
Analysis Batch: 75229

Parameter	Result	Rep Limit	Units Qualifier	D.F.
TPH-DRO (Diesel Range Organics)	0.47		mg/kg	2

GPL LABORATORIES, LLLP

Summary of Analytical Results

Client ID: C109SP01
GPL ID: 503147-001-002-1/3
Matrix: SOIL
Date Collected: 03/29/2005
Date Received: 03/30/2005

Prep Method: SW3510C
Prep Date: 03/31/2005
Prep Time: 00:00
Prep Batch: 74658

Analytical Method: SW8081A_TCLP
Date Analyzed: 04/04/2005
Time Analyzed: 13:26
Analysis Batch: 75284

Parameter	Result	Rep Limit	Units	Qualifier	D.F.
Chlordane	BQL	5.0	ug/L	U	1
Endrin	BQL	0.25	ug/L	U	1
Gamma-BHC (Lindane)	BQL	0.25	ug/L	U	1
Heptachlor	BQL	0.25	ug/L	U	1
Heptachlor Epoxide	BQL	0.25	ug/L	U	1
Methoxychlor	BQL	0.25	ug/L	U	1
Toxaphene	BQL	5.0	ug/L	U	1

GPL LABORATORIES, LLLP

Summary of Analytical Results

Client ID: C109SP01
GPL ID: 503147-001-002-1/3
Matrix: SOIL
Date Collected: 03/29/2005
Date Received: 03/30/2005

Prep Method: EXT_SW8151
Prep Date: 03/31/2005
Prep Time: 00:00
Prep Batch: 74656

Analytical Method: SW8151A_TCLP
Date Analyzed: 04/04/2005
Time Analyzed: 12:58
Analysis Batch: 75279

Parameter	Result	Rep Limit	Units	Qualifier	D.F.
2,4,5-TP (Silvex)	BQL	5.0	ug/L	U	1
2,4-D	BQL	5.0	ug/L	U	1

GPL LABORATORIES, LLLP

Summary of Analytical Results

Client ID: C109SP01
GPL ID: 503147-001-002-1/3
Matrix: SOIL
Date Collected: 03/29/2005
Date Received: 03/30/2005

Prep Method: SW5030B
Prep Date: 03/31/2005
Prep Time: 06:33
Prep Batch: 74663

Analytical Method: SW8260B_TCLP
Date Analyzed: 03/31/2005
Time Analyzed: 12:52
Analysis Batch: 75243

Parameter	Result	Rep Limit	Units	Qualifier	D.F.
1,1-Dichloroethene	BQL	100	ug/L	U	10
1,2-Dichloroethane	BQL	100	ug/L	U	10
1,4-Dichlorobenzene	BQL	100	ug/L	U	10
2-Butanone	BQL	100	ug/L	U	10
Benzene	BQL	100	ug/L	U	10
Carbon Tetrachloride	BQL	100	ug/L	U	10
Chlorobenzene	BQL	100	ug/L	U	10
Chloroform	BQL	100	ug/L	U	10
Tetrachloroethylene	BQL	100	ug/L	U	10
Trichloroethene	BQL	100	ug/L	U	10
Vinyl Chloride	BQL	100	ug/L	U	10

Summary of Analytical Results

Client ID: C109SP01
GPL ID: 503147-001-002-1/3
Matrix: SOIL
Date Collected: 03/29/2005
Date Received: 03/30/2005

Prep Method: SW3510C
Prep Date: 03/31/2005
Prep Time: 00:00
Prep Batch: 74650

Analytical Method: SW8270C_TCLP
Date Analyzed: 04/01/2005
Time Analyzed: 13:21
Analysis Batch: 75295

Parameter	Result	Rep Limit	Units	Qualifier	D.F.
1,4-Dichlorobenzene	BQL	50	ug/L	U	1
2,4,5-Trichlorophenol	BQL	50	ug/L	U	1
2,4,6-Trichlorophenol	BQL	50	ug/L	U	1
2,4-Dinitrotoluene	BQL	50	ug/L	U	1
2-methylphenol	BQL	50	ug/L	U	1
3 & 4-Methylphenol	BQL	50	ug/L	U	1
Hexachlorobenzene	BQL	50	ug/L	U	1
Hexachlorobutadiene	BQL	50	ug/L	U	1
Hexachloroethane	BQL	50	ug/L	U	1
Nitrobenzene	BQL	50	ug/L	U	1
Pentachlorophenol	BQL	100	ug/L	U	1
Pyridine	BQL	50	ug/L	U	1

GPL LABORATORIES, LLLP

Summary of Analytical Results

Client ID: C109SP01
GPL ID: 503147-001-002-1/3
Matrix: SOIL
Date Collected: 03/29/2005
Date Received: 03/30/2005

Prep Method: SW7.3_EXT
Prep Date: 03/31/2005
Prep Time: 09:00
Prep Batch: 74681

Analytical Method: SW9014R
Date Analyzed: 04/01/2005
Time Analyzed: 06:15
Analysis Batch: 75258

Parameter	Result	Rep Limit	Units	Qualifier	D.F.
Cyanide, Reactive	BQL	0.030	mg/kg	U	1

GPL LABORATORIES, LLLP

Summary of Analytical Results

Client ID: C109SP01
GPL ID: 503147-001-002-1/3
Matrix: SOIL
Date Collected: 03/29/2005
Date Received: 03/30/2005

Prep Method:
Prep Date:
Prep Time:
Prep Batch:

Analytical Method: SW9034R
Date Analyzed: 04/01/2005
Time Analyzed: 10:30
Analysis Batch: 75282

Parameter	Result	Rep Limit	Units	Qualifier	D.F.
Sulfide, Reactive	BQL	10	mg/kg	U	1

Summary of Analytical Results

Client ID: C109SP01
GPL ID: 503147-001-002-1/3
Matrix: SOIL
Date Collected: 03/29/2005
Date Received: 03/30/2005

Prep Method:
Prep Date:
Prep Time:
Prep Batch:

Analytical Method: SW9045C
Date Analyzed: 03/31/2005
Time Analyzed: 13:39
Analysis Batch: 75224

Parameter	Result	Rep Limit	Units	Qualifier	D.F.
pH	8.3	0	pH		1

GPL LABORATORIES, LLP
ANALYTICAL RESULTS

Project Name : Cannon AFB FTA4

Date Printed April 5, 2005

GPL ID	Client ID
503147-001-001-1/1	C109SP01
503147-001-002-1/3	C109SP01
503147-001-005-1/1	C109SP01
503147-001-001-1/1	C109SP01DL

Analytical Results for Confirmation Sampling

Analytical Report For 504012

for

Tetra Tech - FW

Project Manager : Pam Moss

Project Name : Cannon AFB FTA4

April 7, 2005

GPL

Laboratories

**GPL Laboratories, LLLP Certifies that the test results meet all requirements of the
NELAC Standards unless otherwise noted.**

**Reviewed by,
Project Manager**

**Approved by,
Laboratory Director**

**7210A Corporate CT Frederick, MD 21703 Phone (301) 694-5310 Fax: (301) 620-0731
www.gplab.com**

GPL LABORATORIES, LLLP

Summary of Analytical Results

Client ID: C109WEW02
GPL ID: 504012-001-001-1/1
Matrix: SOIL
Date Collected: 01/31/2005
Date Received: 04/01/2005

Prep Method:
Prep Date:
Prep Time:
Prep Batch:

Analytical Method: CLP_SOLIDS
Date Analyzed: 04/05/2005
Time Analyzed: 12:23
Analysis Batch: 75267

Parameter	Result	Rep Limit	Units	Qualifier	D.F.
Percent Solids	95	1.0	%		1

GPL LABORATORIES, LLLP

Summary of Analytical Results

Client ID: C109SEW03
GPL ID: 504012-002-002-1/1
Matrix: SOIL
Date Collected: 01/31/2005
Date Received: 04/01/2005

Prep Method:
Prep Date:
Prep Time:
Prep Batch:

Analytical Method: CLP_SOLIDS
Date Analyzed: 04/05/2005
Time Analyzed: 12:23
Analysis Batch: 75267

Parameter	Result	Rep Limit	Units	Qualifier	D.F.
Percent Solids	98	1.0	%		1

GPL LABORATORIES, LLLP

Summary of Analytical Results

Client ID: C109EEW04
GPL ID: 504012-003-003-1/1
Matrix: SOIL
Date Collected: 01/31/2005
Date Received: 04/01/2005

Prep Method:
Prep Date:
Prep Time:
Prep Batch:

Analytical Method: CLP_SOLIDS
Date Analyzed: 04/05/2005
Time Analyzed: 12:23
Analysis Batch: 75267

Parameter	Result	Rep Limit	Units Qualifier	D.F.
Percent Solids	99	1.0	%	1

GPL LABORATORIES, LLLP

Summary of Analytical Results

Client ID: C109NEW05
GPL ID: 504012-004-004-1/1
Matrix: SOIL
Date Collected: 01/31/2005
Date Received: 04/01/2005

Prep Method:
Prep Date:
Prep Time:
Prep Batch:

Analytical Method: CLP_SOLIDS
Date Analyzed: 04/05/2005
Time Analyzed: 12:23
Analysis Batch: 75267

Parameter	Result	Rep Limit	Units	Qualifier	D.F.
Percent Solids	99	1.0	%		1

GPL LABORATORIES, LLLP

Summary of Analytical Results

Client ID: C109NEEW06
GPL ID: 504012-005-005-1/1
Matrix: SOIL
Date Collected: 01/31/2005
Date Received: 04/01/2005

Prep Method:
Prep Date:
Prep Time:
Prep Batch:

Analytical Method: CLP_SOLIDS
Date Analyzed: 04/05/2005
Time Analyzed: 12:23
Analysis Batch: 75267

Parameter	Result	Rep Limit	Units	Qualifier	D.F.
Percent Solids	97	1.0	%		1

GPL LABORATORIES, LLLP

Summary of Analytical Results

Client ID: C109EEF07
GPL ID: 504012-006-006-1/1
Matrix: SOIL
Date Collected: 01/31/2005
Date Received: 04/01/2005

Prep Method:
Prep Date:
Prep Time:
Prep Batch:

Analytical Method: CLP_SOLIDS
Date Analyzed: 04/05/2005
Time Analyzed: 12:23
Analysis Batch: 75267

Parameter	Result	Rep Limit	Units Qualifier	D.F.
Percent Solids	98	1.0	%	1

GPL LABORATORIES, LLLP

Summary of Analytical Results

Client ID: C109WEF08
GPL ID: 504012-007-007-1/1
Matrix: SOIL
Date Collected: 01/31/2005
Date Received: 04/01/2005

Prep Method:
Prep Date:
Prep Time:
Prep Batch:

Analytical Method: CLP_SOLIDS
Date Analyzed: 04/05/2005
Time Analyzed: 12:23
Analysis Batch: 75267

Parameter	Result	Rep Limit	Units	Qualifier	D.F.
Percent Solids	99	1.0	%		1

GPL LABORATORIES, LLLP

Summary of Analytical Results

Client ID: C109MEF09
GPL ID: 504012-008-008-1/1
Matrix: SOIL
Date Collected: 01/31/2005
Date Received: 04/01/2005

Prep Method:
Prep Date:
Prep Time:
Prep Batch:

Analytical Method: CLP_SOLIDS
Date Analyzed: 04/05/2005
Time Analyzed: 12:23
Analysis Batch: 75267

Parameter	Result	Rep Limit	Units	Qualifier	D.F.
Percent Solids	99	1.0	%		1

GPL LABORATORIES, LLLP

Summary of Analytical Results

Client ID: C109WEWED10
GPL ID: 504012-009-009-1/1
Matrix: SOIL
Date Collected: 01/31/2005
Date Received: 04/01/2005

Prep Method:
Prep Date:
Prep Time:
Prep Batch:

Analytical Method: CLP_SOLIDS
Date Analyzed: 04/05/2005
Time Analyzed: 12:23
Analysis Batch: 75267

Parameter	Result	Rep Limit	Units	Qualifier	D.F.
Percent Solids	95	1.0	%		1

GPL LABORATORIES, LLLP

Summary of Analytical Results

Client ID: C109WEW02DL
GPL ID: 504012-001-001-1/1
Matrix: SOIL
Date Collected: 01/31/2005
Date Received: 04/01/2005

Prep Method: SW3550
Prep Date: 04/04/2005
Prep Time: 00:00
Prep Batch: 74695

Analytical Method: SW8015DRO
Date Analyzed: 04/05/2005
Time Analyzed: 13:14
Analysis Batch: 75322

Parameter	Result	Rep Limit	Units	Qualifier	D.F.
TPH-DRO (Diesel Range Organics)	810	18	mg/kg		10

GPL LABORATORIES, LLLP

Summary of Analytical Results

Client ID: C109SEW03DL
GPL ID: 504012-002-002-1/1
Matrix: SOIL
Date Collected: 01/31/2005
Date Received: 04/01/2005

Prep Method: SW3550
Prep Date: 04/04/2005
Prep Time: 00:00
Prep Batch: 74695

Analytical Method: SW8015DRO
Date Analyzed: 04/05/2005
Time Analyzed: 15:32
Analysis Batch: 75322

Parameter	Result	Rep Limit	Units Qualifier	D.F.
TPH-DRO (Diesel Range Organics)	7200	170	mg/kg	100

GPL LABORATORIES, LLLP

Summary of Analytical Results

Client ID: C109EEW04
GPL ID: 504012-003-003-1/1
Matrix: SOIL
Date Collected: 01/31/2005
Date Received: 04/01/2005

Prep Method: SW3550
Prep Date: 04/04/2005
Prep Time: 00:00
Prep Batch: 74695

Analytical Method: SW8015DRO
Date Analyzed: 04/05/2005
Time Analyzed: 16:01
Analysis Batch: 75322

Parameter	Result	Rep Limit	Units	Qualifier	D.F.
TPH-DRO (Diesel Range Organics)	9.9	1.7	mg/kg		1

GPL LABORATORIES, LLLP

Summary of Analytical Results

Client ID: C109NEW05
GPL ID: 504012-004-004-1/1
Matrix: SOIL
Date Collected: 01/31/2005
Date Received: 04/01/2005

Prep Method: SW3550
Prep Date: 04/04/2005
Prep Time: 00:00
Prep Batch: 74695

Analytical Method: SW8015DRO
Date Analyzed: 04/05/2005
Time Analyzed: 16:30
Analysis Batch: 75322

Parameter	Result	Rep Limit	Units	Qualifier	D.F.
TPH-DRO (Diesel Range Organics)	20	1.7	mg/kg		1

GPL LABORATORIES, LLLP

Summary of Analytical Results

Client ID: C109NEEW06
GPL ID: 504012-005-005-1/1
Matrix: SOIL
Date Collected: 01/31/2005
Date Received: 04/01/2005

Prep Method: SW3550
Prep Date: 04/04/2005
Prep Time: 00:00
Prep Batch: 74695

Analytical Method: SW8015DRO
Date Analyzed: 04/05/2005
Time Analyzed: 16:59
Analysis Batch: 75322

Parameter	Result	Rep Limit	Units	Qualifier	D.F.
TPH-DRO (Diesel Range Organics)	7.5	1.7	mg/kg		1

GPL LABORATORIES, LLLP

Summary of Analytical Results

Client ID: C109EEF07DL
GPL ID: 504012-006-006-1/1
Matrix: SOIL
Date Collected: 01/31/2005
Date Received: 04/01/2005

Prep Method: SW3550
Prep Date: 04/04/2005
Prep Time: 00:00
Prep Batch: 74695

Analytical Method: SW8015DRO
Date Analyzed: 04/05/2005
Time Analyzed: 17:27
Analysis Batch: 75322

Parameter	Result	Rep Limit	Units	Qualifier	D.F.
TPH-DRO (Diesel Range Organics)	630	17	mg/kg		10

GPL LABORATORIES, LLLP

Summary of Analytical Results

Client ID: C109WEF08DL
GPL ID: 504012-007-007-1/1
Matrix: SOIL
Date Collected: 01/31/2005
Date Received: 04/01/2005

Prep Method: SW3550
Prep Date: 04/04/2005
Prep Time: 00:00
Prep Batch: 74695

Analytical Method: SW8015DRO
Date Analyzed: 04/06/2005
Time Analyzed: 09:51
Analysis Batch: 75322

Parameter	Result	Rep Limit	Units	Qualifier	D.F.
TPH-DRO (Diesel Range Organics)	2200	50	mg/kg		30

GPL LABORATORIES, LLLP

Summary of Analytical Results

Client ID: C109MEF09DL
GPL ID: 504012-008-008-1/1
Matrix: SOIL
Date Collected: 01/31/2005
Date Received: 04/01/2005

Prep Method: SW3550
Prep Date: 04/06/2005
Prep Time: 00:00
Prep Batch: 74735

Analytical Method: SW8015DRO
Date Analyzed: 04/06/2005
Time Analyzed: 18:52
Analysis Batch: 75323

Parameter	Result	Rep Limit	Units Qualifier	D.F.
TPH-DRO (Diesel Range Organics)	210	8.4	mg/kg	5

GPL LABORATORIES, LLLP

Summary of Analytical Results

Client ID: C109WEWED10DL
GPL ID: 504012-009-009-1/1
Matrix: SOIL
Date Collected: 01/31/2005
Date Received: 04/01/2005

Prep Method: SW3550
Prep Date: 04/04/2005
Prep Time: 00:00
Prep Batch: 74695

Analytical Method: SW8015DRO
Date Analyzed: 04/05/2005
Time Analyzed: 19:51
Analysis Batch: 75322

Parameter	Result	Rep Limit	Units	Qualifier	D.F.
TPH-DRO (Diesel Range Organics)	990	17	mg/kg		10

GPL LABORATORIES, LLP
ANALYTICAL RESULTS

Project Name : Cannon AFB FTA4

Date Printed April 7, 2005

GPL ID	Client ID
504012-006-006-1/1	C109EEF07
504012-006-006-1/1	C109EEF07DL
504012-003-003-1/1	C109EEW04
504012-008-008-1/1	C109MEF09
504012-008-008-1/1	C109MEF09DL
504012-005-005-1/1	C109NEEW06
504012-004-004-1/1	C109NEW05
504012-002-002-1/1	C109SEW03
504012-002-002-1/1	C109SEW03DL
504012-007-007-1/1	C109WEF08
504012-007-007-1/1	C109WEF08DL
504012-001-001-1/1	C109WEW02
504012-001-001-1/1	C109WEW02DL
504012-009-009-1/1	C109WEWED10
504012-009-009-1/1	C109WEWED10DL

Appendix B
Site Inspections and Quality Control

TERC CONTRACT No.: DACW45-94-D-0003

DELIVERY ORDER: 28

PROJECT TITLE AND LOCATION: FIRE TRAINING AREA 4 PCS REMOVAL. CANNON AFB NM

DAILY QUALITY CONTROL REPORT

Daily Report No: 01

Date: 3/28/05

Project Title & Location: FTA 4 PCS Removal Cannon AFB NM

Weather: Clear , breezy

Precipitation: none In.: 39 low Temp. : 60 high

1. Contract/Subcontractors and Area of Responsibility:

NUMBER	TRADE	HOURS/TOT	EMPLOYER	LOCATION/DESCRIPTION WORK
1	Operator	8	Rhino Env.	FTA 4 Mobilization
0	Truckers	0	Rhino Env.	FTA 4 Mobilization
1	Geologist/DOM	8	FW	FTA 4 Mobilization
1	Supt/HSO/QCM	8	FW	FTA 4 Mobilization

2. Operating Plant or Equipment (not hand tools):

Plant/Equipment	Date of Arrival Or Departure	Date of Safety Check	Hours Used	Hours Idle
Case FEL	3/28/06	3/28/05	0	

3. Work performed today: (Indicate location and description of work performed by prime and/or subcontractors. When network analysis is used, identify work by NAS activity number).

Mobilization, site set up and staking, pre con meeting and base passes.

4. Control Activities Performed:

- Preparatory Inspections: Identify features of work and attach minutes.
- Initial Inspections: Identify features of work and attach minutes.
- Follow-up Inspections: List inspections performed, results of inspection compared to specification

Pre con meeting and preparatory inspection conducted see agenda attached.

5. Tests Performed and Test Results: Identify test requirement by paragraph number in specifications and/or sheet number in plans.

none

6. Material Received: Note inspection results and storage provided.

none

7. Submittals Reviewed:

(a) Submittal No.	(b) Spec/Plan Reference	(c) Item/Task	(d) Action
none			

8. Off-Site Surveillance Activities, Including Action Taken:

none

9. Job Safety: List items checked, results, instructions, and corrective actions taken.

AHA review

10. Delays Encountered/Changes From:

None

11. Instructions Received:

none

12. Remarks: Instructions received or given. Conflict(s) in plans and/or specifications. Delays encountered.

Port potty delivered.

Contractor's Verification: On behalf of the Contractor, I certify this report is complete and correct, and all materials and equipment used and work performed during this reporting period are in compliance with the contract plans and specifications, to the best of my knowledge, except as may be noted above.

James Morning
CQC SYSTEM MANAGER

SIGNATURE

DATE
3/24/05
DATE



TETRA TECH EC, INC.

Cannon AFB New Mexico

FTA-4 Meeting Sign In Sheet
March 28, 2005 1430

NAME ORGANIZATION PHONE/EMAIL

1.	Frank Reyes	RHino Environmental	cell (915) 497-2226 / 886-4355
2.	Denny Timmons	ZTCES/CEYC	505-784-6371
3.	JAMES MORNING	ITEC	3014716
4.			
5.			
6.	Donna Russell - not signed in		
7.	Kath Wiley - " "		
8.	Parley - TD/AA - phone		
9.			
10.			
11.			
12.	via phone		

denny, timmo.
@cannon.af.mil

NOTES

NOVA,
DANIELLE
JAMES

ACTION ITEMS

Truck haul may start 3/29/05



TETRA TECH EC, INC.

AGENDA

Pre Construction Meeting FTA-4 Project—CANNON AIR FORCE BASE

DATE & TIME: March 28, 2005 1430

PARTICIPANTS: CANNON AFB
USACE-OMAHA
USACE-CAFB
Tetra Tech ECI
Rhino Environmental
T&N Associates

Teleconference Information	
Toll-Free Telephone Number	1-877-322-9654
Participant Pass code	477037

I. Introductions, roles and responsibilities
Review Scope of Work

II. Construction Schedule/Production/Mobilization logistics and Forecast of Progress until next scheduled meeting

Digging Permit DONE

ROAD CLOSED.

FORM 93

III. Coordination of Schedules / Review of Submittal Schedules

SDS SUNDAY.

IV. Review of quality/health and safety programs

Tetra Tech EC, Inc

Equipment/Vehicle Inspection Report

Date: 9/28/05 Unit Number: _____ Description: CASE Front
 _____ Miles or _____ Hours: _____ MFG: _____
 Unit to be taken from: _____ to: _____

	Good	Satisfactory	Repair Req.	N/A		Good	Satisfactory	Repair Req.	N/A
1. Tires _____ %*	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	16. Interior	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2. Brakes	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	17. Glass	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. Steering	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	18. Wipers/Review Mirrors	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4. Undercarriage	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	19. Heater	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5. Suspension	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	20. Safety Equipment/Belts	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6. Engine	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		21. Lights/Turn Signals	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7. Drive Train	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		22. Mounted Equipment	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8. Fuel System	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		23. Mounted Attachments	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9. Cooling System	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		24. Blade/Bucket	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10. Electrical System	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		25. Boom	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
11. Exhaust System	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		26. Outriggers	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
12. Hydraulic System	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		27. Fire Ext./First Aid Kit	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
13. Transmission	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		28. Horn/Backup Alarm	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
14. Clutch	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		29. _____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
15. Body	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		30. _____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Note percentage of tread usefulness

Comments: _____

Inspected By: [Signature]

TERC CONTRACT No.: DACW45-94-D-0003

DELIVERY ORDER: 28

PROJECT TITLE AND LOCATION: FIRE TRAINING AREA 4 PCS REMOVAL. CANNON AFB NM

DAILY QUALITY CONTROL REPORT

Daily Report No: 02 Date: 3/29/05

Project Title & Location: FTA 4 PCS Removal Cannon AFB NM

Weather: Clear, windy 45 mph Precipitation: none In.: 42 low Temp.: 65 high

1. Contract/Subcontractors and Area of Responsibility:

NUMBER	TRADE	HOURS/TOT	EMPLOYER	LOCATION/DESCRIPTION WORK
1	Operator	10	Rhino Env.	FTA 4 Mobilization
6	Truckers	60	Rhino Env.	FTA 4 Mobilization
1	Geologist/DOM	10	FW	FTA 4 Mobilization
1	Supt/HSO/QCM	10	FW	FTA 4 Mobilization

2. Operating Plant or Equipment (not hand tools):

Plant/Equipment	Date of Arrival Or Departure	Date of Safety Check	Hours Used	Hours Idle
Case FEL	3/28/06	3/29/05	8	2

3. Work performed today: (Indicate location and description of work performed by prime and/or subcontractors. When network analysis is used, identify work by NAS activity number).

Mobilization completed, excavated approx 300 CY and stock piled, sampled stock piles, see coc attached, Disposal haul cancelled for today

4. Control Activities Performed:

- Preparatory Inspections: Identify features of work and attach minutes.
- Initial Inspections: Identify features of work and attach minutes.
- Follow-up Inspections: List inspections performed, results of inspection compared to specification

None

5. Tests Performed and Test Results: Identify test requirement by paragraph number in specifications and/or sheet number in plans.

None

TERC CONTRACT NO.: DACW45-94-D-0003

DELIVERY ORDER: 28

PROJECT TITLE AND LOCATION: FIRE TRAINING AREA 4 PCS REMOVAL. CANNON AFB NM

6. Material Received: Note inspection results and storage provided.

6 -18 cubic yard loads of fill material delivered.

7. Submittals Reviewed:

(a) Submittal No.	(b) Spec/Plan Reference	(c) Item/Task	(d) Action
none			

8. Off-Site Surveillance Activities, Including Action Taken:

none

9. Job Safety: List items checked, results, instructions, and corrective actions taken.

AHA and HASP review with truckers, daily safety briefing conducted.

10. Delays Encountered/Changes From:

None

11. Instructions Received:

none

12. Remarks: Instructions received or given. Conflict(s) in plans and/or specifications. Delays encountered.

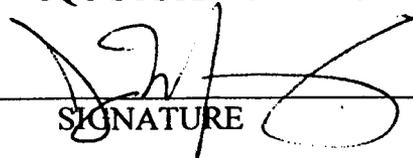
Rhino haul on hold awaiting CE review of waste disposal documents.

Contractor's Verification: On behalf of the Contractor, I certify this report is complete and correct, and all materials and equipment used and work performed during this reporting period are in compliance with the contract plans and specifications, to the best of my knowledge, except as may be noted above.

James Morning

CQC SYSTEM MANAGER

DATE



SIGNATURE

3-29-05

DATE



Tetra Tech EC, Inc

DAILY BRIEFING SIGN-IN SHEET

Date: 3-29-05 Project Name/Location: FTA 4, CAFB, NM
Shift/Department: DAY Person Conducting Briefing: J. MORNING

1. DAILY ACTIVITIES:

Table with 2 columns: TASKS, CONTROLS/PPE. Row 1: Site Specific TRAINING, DID. Row 2: AHA REVIEW, DIP.

2. AWARENESS (e.g., special H&S concerns, recent incidents, etc.):

Spill Control

EHS STATEMENT: Recycle tires

3. OTHER ISSUES (HASP changes, attendee comments, etc.):

4. ATTENDEES (SIGN NAME):

Table with 2 columns: Numbered list (1-20), Signatures. Includes names like Tom Dwyer, Benita Bandy, Michael Bigler.

GPL LABORATORIES, LLLP

7210A Corporate Court
 Frederick, MD 21703
 (301) 694-5310
 Fax (301) 620-0731

Contract #/Billing Reference

1 of 1 Pgs.

Project: CANNON AFB Sumc 109					Turnaround Time 5 DAY																			
Client: USACE - Tetra Tech SCI					# of Containers																			
Send Results To: CA01					Container Type																			
Address: 6605 Uptown Blvd #220					Preservative Used																			
ABQ, NM 87110					Type of Analysis																			
Phone: 505 878 8900 EXT 201					TPH PRO TCLP Pesticides Cyanide PCBs Volatiles VOCs																			
Sample ID#	Date Sampled	Time Sampled	Sample Matrix	Sampler's Initials											Lab Cooler No.									
															CLIENT COMMENTS									
C109SPQ1	3-29	0730	Soil	JAM											Stack Pile									
C109SPQ1	3-29	0730	Soil	JAM											Composite									
C109SPQ1	3-29	0730	Soil	JAM											↓									
TEMP BLANK	3-29	NA	WTR	CLB	Temp Blank																			
TRIP BLANK	3-29	NA	WTR	CLB	Trip Blank																			

Relinquished By: <i>[Signature]</i>	Date/Time: <i>3-29 0900</i>	Received By: <i>[Signature]</i>	Relinquished By:	Received for Laboratory By:	Date/Time:
Relinquished By: <i>[Signature]</i>	Date/Time: <i>3-29 1400</i>	Received By: FEDEX	Date/Time:	Shipper:	Airbill No.: FEDEX 82622264112
Relinquished By:	Date/Time:	Received By:	Lab Comments:		Temp:

Tetra Tech EC, Inc

Equipment/Vehicle Inspection Report

Date: 3-29 Unit Number: _____ Description: 771 CASE
 _____ Miles or _____ Hours: _____ MFG: _____
 Unit to be taken from: _____ to: _____

	Good	Satisfactory	Repair Req.	N/A		Good	Satisfactory	Repair Req.	N/A
1. Tires _____ %*	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	16. Interior	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2. Brakes	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	17. Glass	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. Steering	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	18. Wipers/Review Mirrors	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4. Undercarriage	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	19. Heater	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5. Suspension	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	20. Safety Equipment/Belts	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6. Engine	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		21. Lights/Turn Signals	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7. Drive Train	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		22. Mounted Equipment	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8. Fuel System	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		23. Mounted Attachments	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9. Cooling System	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		24. Blade/Bucket	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10. Electrical System	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		25. Boom	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
11. Exhaust System	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		26. Outriggers	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
12. Hydraulic System	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		27. Fire Ext./First Aid Kit	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
13. Transmission	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		28. Horn/Backup Alarm	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
14. Clutch	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		29. _____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
15. Body	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		30. _____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Note percentage of tread usefulness

Comments: _____

Inspected By: SAM

TERC CONTRACT No.: DACW45-94-D-0003

DELIVERY ORDER: 28

PROJECT TITLE AND LOCATION: FIRE TRAINING AREA 4 PCS REMOVAL. CANNON AFB NM

DAILY QUALITY CONTROL REPORT

Daily Report No: 03 Date: 3/30/05
 Project Title & Location: FTA 4 PCS Removal Cannon AFB NM
 Weather: PC, windy 30 mph Precipitation: none In.: 42 low Temp.: 58 high

1. Contract/Subcontractors and Area of Responsibility:

NUMBER	TRADE	HOURS/TOT	EMPLOYER	LOCATION/DESCRIPTION WORK
1	Operator	10	Rhino Env.	FTA 4 PCS Removal
0	Truckers	0	Rhino Env.	FTA 4 PCS Removal
0	Geologist/DOM	0	FW	FTA 4 PCS Removal
1	Supt/HSO/QCM	10	FW	FTA 4 PCS Removal

2. Operating Plant or Equipment (not hand tools):

Plant/Equipment	Date of Arrival Or Departure	Date of Safety Check	Hours Used	Hours Idle
Case FEL	3/28/06	3/30/05	8	2

3. Work performed today: (Indicate location and description of work performed by prime and/or subcontractors. When network analysis is used, identify work by NAS activity number).

Completed excavation to staked limits to depth of 2 FTBLG, approx 350 CY and stock piled, total approx 650 cy. Covered SP with 6 mil plastic, to awaiting analyses and disposal. Rhino released and off site until next week. COE and USAF came by site, No issues communicated. Found a 4 inch PVC pipe in side wall of North area, Not able to chase. Not all stained material was able to be removed due to SOW.

4. Control Activities Performed:

- Preparatory Inspections: Identify features of work and attach minutes.
- Initial Inspections: Identify features of work and attach minutes.
- Follow-up Inspections: List inspections performed, results of inspection compared to specification

None

5. Tests Performed and Test Results: Identify test requirement by paragraph number in specifications and/or sheet number in plans.

None

6. Material Received: Note inspection results and storage provided.

None

7. Submittals Reviewed:

(a) Submittal No.	(b) Spec/Plan Reference	(c) Item/Task	(d) Action
none			

8. Off-Site Surveillance Activities, Including Action Taken:

none

9. Job Safety: List items checked, results, instructions, and corrective actions taken.

Daily safety briefing conducted. PID calibration 100 PPM w/ 100 PPM Isobutylene, Bat OK. All site readings in breathing zones were at background of 0.0 Spot checks of soil head space were from 60 to 80 PPM

10. Delays Encountered/Changes From:

None

11. Instructions Received:

none

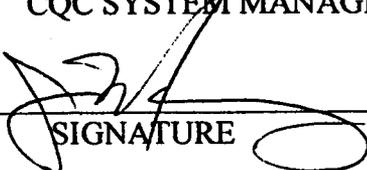
12. Remarks: Instructions received or given. Conflict(s) in plans and/or specifications. Delays encountered.

Rhino haul on hold awaiting CE review of waste disposal documents.

Contractor's Verification: On behalf of the Contractor, I certify this report is complete and correct, and all materials and equipment used and work performed during this reporting period are in compliance with the contract plans and specifications, to the best of my knowledge, except as may be noted above.

James Morning

 CQC SYSTEM MANAGER DATE

 _____
 SIGNATURE DATE

3-31-05



Tetra Tech EC, Inc

DAILY BRIEFING SIGN-IN SHEET

Date: 3-30-05 Project Name/Location: FTA 4, CAFB, NM
Shift/Department: DAY Person Conducting Briefing: James

1. DAILY ACTIVITIES:

Table with 2 columns: TASKS, CONTROLS/PPE. Row 1: EXCAVATION - Stockpile Pcs, D/D

2. AWARENESS (e.g., special H&S concerns, recent incidents, etc.):

SUP TRIP FALLS
Windy CONDITIONS
SAFETY GLASSES

EHS STATEMENT: Recycle torn plastics

3. OTHER ISSUES (HASP changes, attendee comments, etc.):

4. ATTENDEES (SIGN NAME):

Table with 2 columns for attendee numbers 1-20. Rows 1 and 2 contain handwritten signatures.

Tetra Tech EC, Inc

Equipment/Vehicle Inspection Report

Date: 3-30-05 Unit Number: _____ Description: CASE FEL
 _____ Miles or _____ Hours: _____ MFG: _____
 Unit to be taken from: _____ to: _____

	Good	Satisfactory	Repair Req.	N/A		Good	Satisfactory	Repair Req.	N/A
1. Tires _____ %*	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	16. Interior	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2. Brakes	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	17. Glass	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. Steering	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	18. Wipers/Review Mirrors	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4. Undercarriage	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	19. Heater	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5. Suspension	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	20. Safety Equipment/Belts	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6. Engine	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		21. Lights/Turn Signals	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7. Drive Train	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		22. Mounted Equipment	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8. Fuel System	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		23. Mounted Attachments	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9. Cooling System	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		24. Blade/Bucket	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10. Electrical System	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		25. Boom	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
11. Exhaust System	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		26. Outriggers	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
12. Hydraulic System	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		27. Fire Ext./First Aid Kit	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
13. Transmission	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		28. Horn/Backup Alarm	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
14. Clutch	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		29. _____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
15. Body	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		30. _____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Note percentage of tread usefulness

Comments: _____

Inspected By: [Signature]

GPL LABORATORIES, LLLP

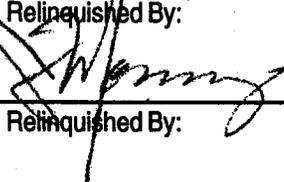
7210A C State Court
 Frede. MD 21703
 (301) 694-5310
 Fax (301) 620-0731

Contract #/Billing Reference
 515500280001E1100

1 of 1 Pgs.

Project: CANNON AFB SUMM 109	Turnaround Time
Client: USACE-TETRA TECH ECI	# of Containers 9
Send Results To: CAROL B	Container Type 502 GALS
Address: 6605 Uptown Blvd #220	Preservative Used 4^{1/2} 12^{1/2} 11^{1/2}
ALB. NM 87110	Type of Analysis TPH DRU
Phone: 558788900 #201	Lab Cooler No.

Sample ID#	Date Sampled	Time Sampled	Sample Matrix	Sampler's Initials											CLIENT COMMENTS				
C109NEW02	1-31-05	1000	Soil	JAM	X														WESTSIDE WALL
C109SEW03	1-31-05	1015	Soil	JAM	X														SOUTH SIDE WALL
C109EEN04	1-31-05	1030	Soil	JAM	X														EAST SIDE WALL
C109NEW05	1-31-05	1040	Soil	JAM	X														NORTH SIDE WALL
C109NEEW06	1-31-05	1045	Soil	JAM	X														NE DUG LEG WALL
C109EEF07	1-31-05	1050	Soil	JAM	X														EAST FLOOR
C109WEF08	1-31-05	1100	Soil	JAM	X														WEST FLOOR
C109MEF09	1-31-05	1110	Soil	JAM	X														MIDDLE FLOOR
TEMP BLANK	1-31-05	NA	WATER	JA	NA	NA													TEMP BLANK W/A
TRIP BLANK	1-31-05	NA	WATER	JA		X													TRIP BLANK W/A
C109WENED10	1-31-05	1115	Soil	JA	X														DUST W/ENED 10 JAM

Relinquished By: 	Date/Time: 2-3-05 1300	Received By: FED X	Relinquished By:	Received for Laboratory By:	Date/Time:
Relinquished By:	Date/Time:	Received By:	Date/Time:	Shipper:	Airbill No.:
Relinquished By:	Date/Time:	Received By:	Lab Comments: Air Bill # 826222641134		Temp:

G.P. W.O. _____

Cannon Air Force Base

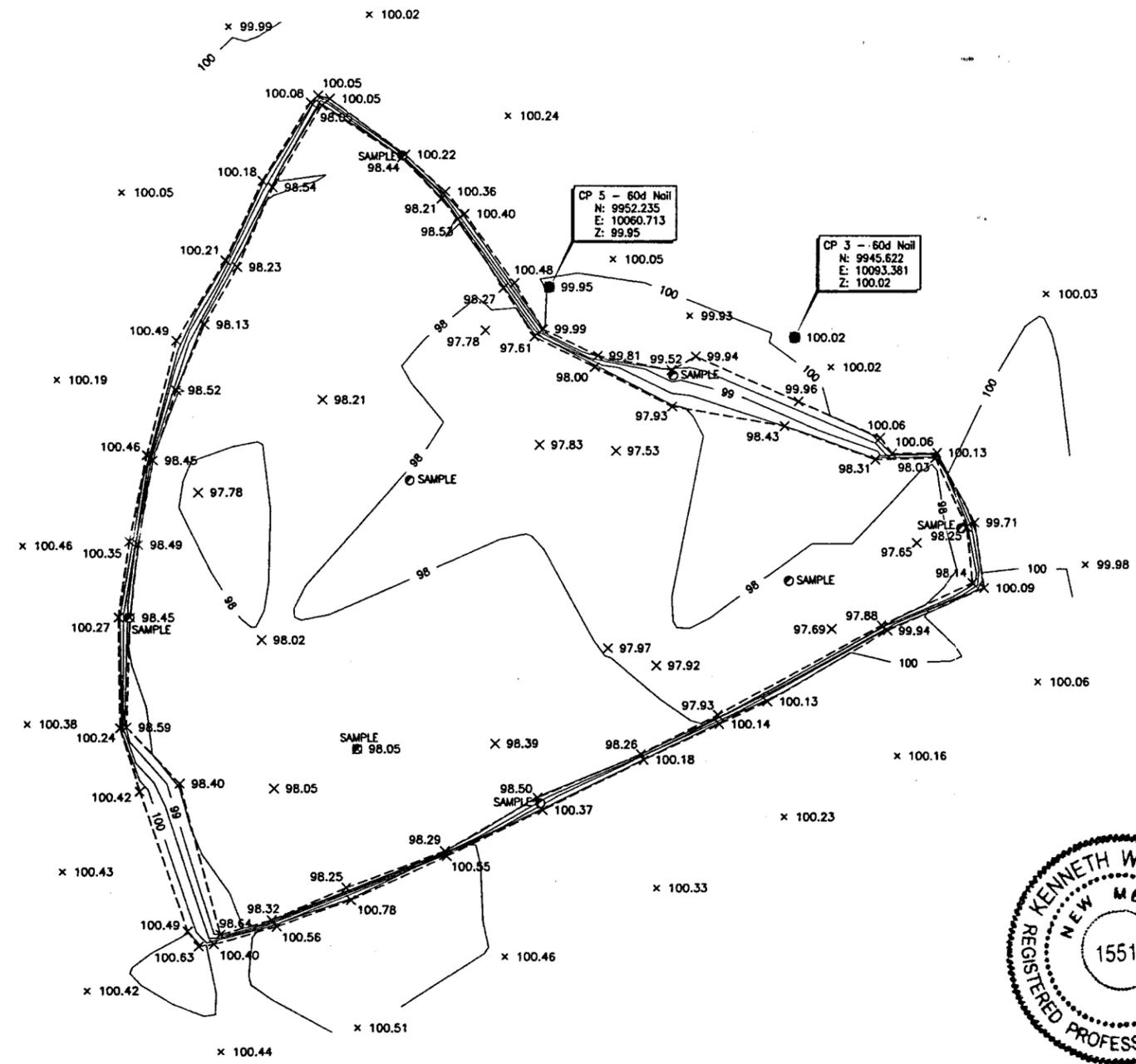
Clovis, New Mexico

Excavated Volume: 14,111 c.f. - 522.6 c.y.

CP 4 - 60d Nail
N: 10000.000
E: 10000.000
Z: 100.00

CP 5 - 60d Nail
N: 9952.235
E: 10060.713
Z: 99.95

CP 3 - 60d Nail
N: 9945.622
E: 10093.381
Z: 100.02



Scale 1" = 20'

NOTES:

1. This survey is based upon magnetic North and an assumed coordinate system.
2. Elevations for this survey are based upon an elevation of 100.00 assumed on Control Point 4.

I, Kenneth W. Hagar, New Mexico Professional Surveyor No. 15514, do hereby certify that this Topographic Survey Plat and the actual survey on the ground upon which it is based were performed by me or under my direct supervision; that I am responsible for this survey; that this survey meets the Minimum Standards for Surveying in New Mexico; and that it is true and correct to the best of my knowledge and belief.

Ground survey completed April 1, 2005.



K. Hagar
Kenneth W. Hagar

04-07-05
Date

Professional Surveyor of New Mexico No. 15514

Hagar, Brown & Dorsey, LLC.

LAND SURVEYORS

P.O. Box 1248 Hereford, Texas 79045 (806) 384-8084 (806) 384-6088 FAX	Sheet 1 of 1 Drawn By: J. Pringle File: HBD4 - A4147.DWG	4713 S. Western St. Amarillo, Texas 79109 (806) 352-8040 (806) 352-1008 FAX
--	--	--

TERC CONTRACT No.: DACW45-94-D-0003

DELIVERY ORDER: 28

PROJECT TITLE AND LOCATION: FIRE TRAINING AREA 4 PCS REMOVAL. CANNON AFB NM

DAILY QUALITY CONTROL REPORT

Daily Report No: 04 Date: 3/31/05
 Project Title & Location: FTA 4 PCS Removal Cannon AFB NM
 Weather: PC, windy 30 mph Precipitation: snow In.: 32 low Temp.: 48 high

1. Contract/Subcontractors and Area of Responsibility:

NUMBER	TRADE	HOURS/TOT	EMPLOYER	LOCATION/DESCRIPTION WORK
0	Operator	0	Rhino Env.	FTA 4 PCS Removal
0	Truckers	0	Rhino Env.	FTA 4 PCS Removal
0	Geologist/DOM	0	FW	FTA 4 PCS Removal
1	Supt/HSO/QCM	10	FW	FTA 4 PCS Removal

2. Operating Plant or Equipment (not hand tools):

Plant/Equipment	Date of Arrival Or Departure	Date of Safety Check	Hours Used	Hours Idle
Case FEL	3/28/06	3/30/05	0	8
Stored on site until disposal task				

3. Work performed today: (Indicate location and description of work performed by prime and/or subcontractors. When network analysis is used, identify work by NAS activity number).

Reviewed SOP's C3,5 and section 2.4 of WP addendum. Collected post excavation samples. 3 Floor and 5 sidewall with 1 dup. Sidewalls samples were a composite collected by scraping wall from approx. 6 inches below sub grade and 4 inches above floor. Excavation surrounding surface consist of deteriorated asphalt pavement and gravels. Floor samples were taken approx 4-5 inches below loose material. All samples had slight petroleum odor. Samples labeled, packaged, iced and shipped FED X for delivery 4-1-05. See COC and attached map for details. Stock Pile cover 90 %intact.

4. Control Activities Performed:

- Preparatory Inspections: Identify features of work and attach minutes.
- Initial Inspections: Identify features of work and attach minutes.
- Follow-up Inspections: List inspections performed, results of inspection compared to specification

None

5. Tests Performed and Test Results: Identify test requirement by paragraph number in specifications and/or sheet number in plans.

None

6. **Material Received:** Note inspection results and storage provided.

None

7. **Submittals Reviewed:**

(a) Submittal No.	(b) Spec/Plan Reference	(c) Item/Task	(d) Action
none			

8. **Off-Site Surveillance Activities, Including Action Taken:**

none

9. **Job Safety:** List items checked, results, instructions, and corrective actions taken.

No crews on site. Area barricaded with caution tape.

10. **Delays Encountered/Changes From:**

None

11. **Instructions Received:**

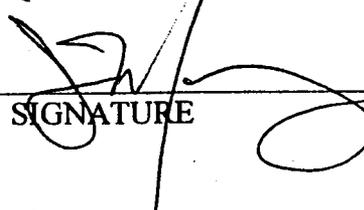
none

12. **Remarks:** Instructions received or given. Conflict(s) in plans and/or specifications. Delays encountered.

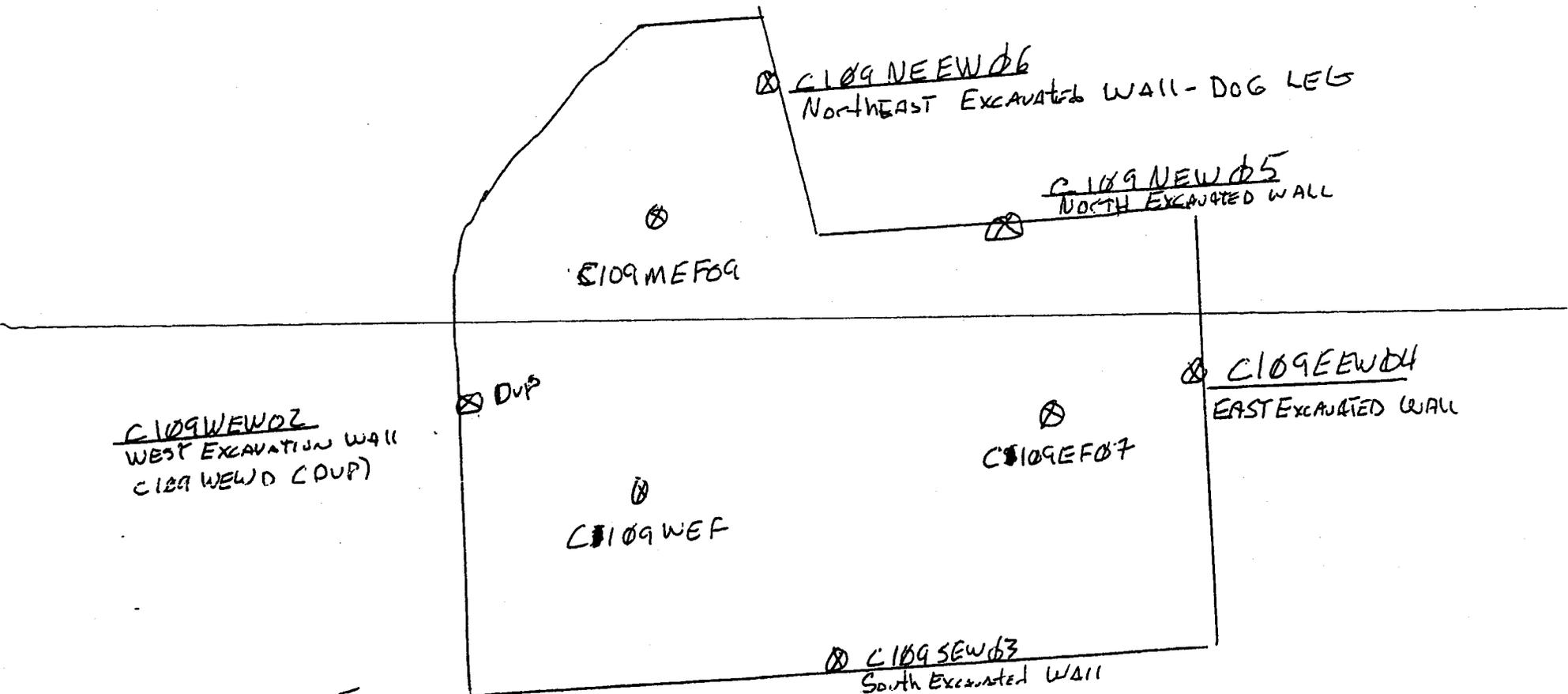
Rhino haul on hold awaiting CE review of waste disposal documents.

Contractor's Verification: On behalf of the Contractor, I certify this report is complete and correct, and all materials and equipment used and work performed during this reporting period are in compliance with the contract plans and specifications, to the best of my knowledge, except as may be noted above.

James Morning
CQC SYSTEM MANAGER DATE


SIGNATURE DATE
4-1-05

SAMPLE MAP - POST
SLMU 109 PCS REMOVAL



3-31-05

NOT TO SCALE
⊗ = SAMPLE LOCATION

PL LABORATORIES, LLLP

7210A Corporate Court
 Frederick, MD 21703
 (301) 694-5310
 Fax (301) 620-0731

Contract #/Billing Reference

515500280001C1100

1 of 1

Pgs.

Object: CANNON AFB SWMU 109
 Client: USACE-TETRA TECH ELL
 Contact Results To: CAROL B
 Address: 6605 UPTOWN BLVD #220
ABO, NM 87110
 Phone: 505 878 8900 # 201

Turnaround Time
 # of Containers: 9
 Container Type: 8026 LBS
 Preservative Used: None
 Type of Analysis: TPH DRG

Lab Cooler No.

Sample ID#	Date Sampled	Time Sampled	Sample Matrix	Sampler's Initials											CLIENT COMMENTS		
<u>C109WEW02</u>	<u>1-31-05</u>	<u>1000</u>	<u>Soil</u>	<u>JAM</u>	<u>X</u>												<u>WESTSIDE WALL</u>
<u>C109SEW03</u>	<u>1-31-05</u>	<u>1015</u>	<u>Soil</u>	<u>JAM</u>	<u>X</u>												<u>SOUTH SIDE WALL</u>
<u>C109EEN04</u>	<u>1-31-05</u>	<u>1030</u>	<u>Soil</u>	<u>JAM</u>	<u>X</u>												<u>EAST SIDE WALL</u>
<u>C109NEW05</u>	<u>1-31-05</u>	<u>1040</u>	<u>Soil</u>	<u>JAM</u>	<u>X</u>												<u>NORTH SIDE WALL</u>
<u>C109NBEW06</u>	<u>1-31-05</u>	<u>1045</u>	<u>Soil</u>	<u>JAM</u>	<u>X</u>												<u>NE DGLE WALL</u>
<u>C109EEF07</u>	<u>1-31-05</u>	<u>1050</u>	<u>Soil</u>	<u>JAM</u>	<u>X</u>												<u>EAST FLOOR</u>
<u>C109WEF08</u>	<u>1-31-05</u>	<u>1100</u>	<u>Soil</u>	<u>JAM</u>	<u>X</u>												<u>WEST FLOOR</u>
<u>C109MEF09</u>	<u>1-31-05</u>	<u>1110</u>	<u>Soil</u>	<u>JAM</u>	<u>X</u>												<u>MIDDLE FLOOR</u>
<u>TEMP BLANK</u>	<u>1-31-05</u>	<u>NA</u>	<u>WATER</u>	<u>JA</u>	<u>NA</u>	<u>NA</u>											<u>TEMP BLANK W/A</u>
<u>TRIP BLANK</u>	<u>1-31-05</u>	<u>NA</u>	<u>WATER</u>	<u>JA</u>		<u>X</u>											<u>TRIP BLANK W/A</u>
<u>C109WEN010</u>	<u>1-31-05</u>	<u>1115</u>	<u>Soil</u>	<u>JA</u>	<u>X</u>												<u>DUP WEN 10</u>

Relinquished By: <u>[Signature]</u>	Date/Time: <u>1-31-05 1300</u>	Received By: <u>Fed X</u>	Relinquished By:	Received for Laboratory By:	Date/Time:
Relinquished By:	Date/Time:	Received By:	Date/Time:	Shipper:	Airbill No.:
Relinquished By:	Date/Time:	Received By:	Lab Comments: <u>Air Bill # 826222641134</u>		Temp:

G.P. W.O. _____

TERC CONTRACT No.: DACW45-94-D-0003

DELIVERY ORDER: 28

PROJECT TITLE AND LOCATION: FIRE TRAINING AREA 4 PCS REMOVAL. CANNON AFB NM

DAILY QUALITY CONTROL REPORT

Daily Report No: 05 Date: 4/1/05

Project Title & Location: FTA 4 PCS Removal Cannon AFB NM

Weather: PC, windy 30 mph Precipitation: snow In.: 32 low Temp.: 58 high

1. Contract/Subcontractors and Area of Responsibility:

NUMBER	TRADE	HOURS/TOT	EMPLOYER	LOCATION/DESCRIPTION WORK
0	Operator	0	Rhino Env.	FTA 4 PCS Removal
1	Surveyor	5	Hager Asso.	FTA 4 Excavation Survey
0	Geologist/DOM	0	FW	FTA 4 PCS Removal
1	Supt/HSO/QCM	10	FW	FTA 4 PCS Removal

2. Operating Plant or Equipment (not hand tools):

Plant/Equipment	Date of Arrival Or Departure	Date of Safety Check	Hours Used	Hours Idle
Case FEL Stored on site until disposal task	3/28/06	3/30/05	0	8

3. Work performed today: (Indicate location and description of work performed by prime and/or subcontractors. When network analysis is used, identify work by NAS activity number).

Excavation limits surveyed. Perform maintenance on Stockpile covers. Secured site. Demobilize.

4. Control Activities Performed:

- Preparatory Inspections: Identify features of work and attach minutes.
- Initial Inspections: Identify features of work and attach minutes.
- Follow-up Inspections: List inspections performed, results of inspection compared to specification

None

5. Tests Performed and Test Results: Identify test requirement by paragraph number in specifications and/or sheet number in plans.

None

6. Material Received: Note inspection results and storage provided.

None

7. Submittals Reviewed:

(a) Submittal No.	(b) Spec/Plan Reference	(c) Item/Task	(d) Action
none			

8. Off-Site Surveillance Activities, Including Action Taken:

none

9. Job Safety: List items checked, results, instructions, and corrective actions taken.

No crews on site. Area barricaded with caution tape.

10. Delays Encountered/Changes From:

None

11. Instructions Received:

none

12. Remarks: Instructions received or given. Conflict(s) in plans and/or specifications. Delays encountered.

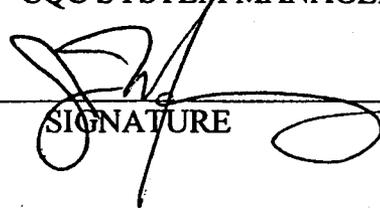
Rhino haul on hold awaiting CE review of waste disposal documents.

Contractor's Verification: On behalf of the Contractor, I certify this report is complete and correct, and all materials and equipment used and work performed during this reporting period are in compliance with the contract plans and specifications, to the best of my knowledge, except as may be noted above.

James Morning

CQC SYSTEM MANAGER

DATE



SIGNATURE

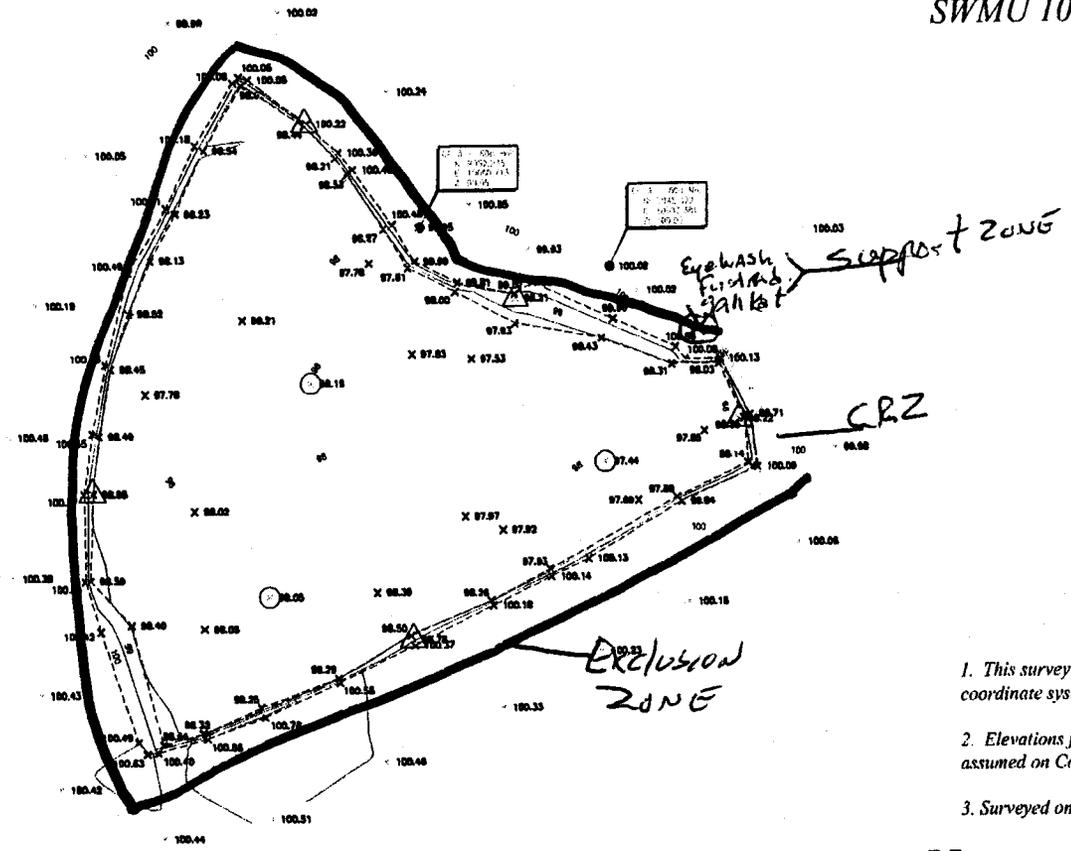
4-1-05

DATE

4
 100.00
 100.00
 100.00
 100.00

Clovis, New Mexico
 Excavated Volume: 14,111 c.f. - 522.6 c.y.

SWMU 109



Scale 1" = 20'

- Excavation Floor Sample Location
- Excavation Wall Sample Location

1. This survey is based upon magnetic North and an assumed coordinate system.
2. Elevations for this survey are based upon an elevation of 100.00 assumed on Control Point 4.
3. Surveyed on the ground April 1, 2005.

Hagar, Brown & Dorsey, LLC.
LAND SURVEYORS

P.O. Box 1848
 Herford, Texas 78045
 (806) 394-8034
 (806) 394-0008 FAX

Sheet: 1 of 1
 Drawn by: J. Hagar
 File: SWMU 109

4715 S. Western St.
 Amarillo, Texas 79109
 (806) 338-8540
 (806) 338-1000 FAX

Site Work ZONES

Stock Pile Area

FIGURE 3-1 INSPECTION CHECKLIST

ITEM: <i>Excavation of PCS Completed</i>				DATE: <i>3-30-05</i>
Contract Specifications: <i>Approx 2 FBCG to Boundry</i>				
MATERIAL:	QTY:	CONDITION:	TESTING:	COMMENTS:
<i>Approx 650 CY</i>	<i>650 CY</i>	<i>Good</i>	<i>IN LAB</i>	
STORAGE CONDITIONS:				
<i>Stack Pile PCS ON 6 mil Poly + Bermed</i> <i>Label Stack Pile</i> <i>Collect Stack Pile samples</i> <i>Collect Side Wall Samples</i> <i>COVER Stack Piles</i>				
SUBMITTALS:				
<i>NA</i>				

3.4 COMPLETION INSPECTION

Completion inspections will be performed as summarized in this section.

3.4.1 Contractor's Quality Control Completion Inspection

The CQC Systems Manager/SHSO or designated Foster Wheeler Environmental QC Inspection personnel will conduct a detailed inspection when all of the work or an increment of work is substantially complete. This inspection will be conducted prior to the prefinal inspection. The Base Project Manager and the USACE Resident Engineer/CR may also participate and will be notified in advance of the inspection date. The work will be inspected for conformance to plans, specifications, quality, workmanship, and completeness. The CQC Systems Manager/SHSO will prepare an itemized list of work not properly completed, inferior workmanship, or work that does not conform to plans and specifications. The list will also include outstanding administrative items such as record (as-built) drawings, O&M manuals, and spare parts. The list will be included in the QC documentation and submitted to the Base Project Manager or designee and the USACE Resident Engineer/CR with an estimated date for correction of each deficiency scheduled within 5 working days after the conduct of the inspection. The completion inspection will be documented on the Inspection Checklist, shown in Figure 3-1, and attached to the DQCR.

3.4.2 Prefinal Inspection

The prefinal inspection will be conducted by the Base Project Manager; the USACE Resident Engineer/CR, Foster Wheeler QC inspection personnel, CQC Systems Manager/SHSO, or other primary management representative, as applicable, will attend. The Base Project Manager or designee in response to notification from the CQC Systems Manager/SHSO prior to the planned inspection date will schedule the prefinal inspection. The CQC Systems Manager/SHSO is required to verify at this time that all specific items previously identified to Foster Wheeler as being unacceptable, along with all remaining project work, will be complete and acceptable by the date scheduled for the prefinal inspection. At this inspection, the Base Project Manager or designee will develop a specific list of incomplete and/or unacceptable work performed under the contract and will provide this list to Foster Wheeler.

3.4.3 Final Acceptance Inspection

The final acceptance inspection will be formally scheduled by the Base Project Manager based on notification from the CQC Systems Manager/SHSO of readiness and will include the QC

FIGURE 3-1 INSPECTION CHECKLIST

MATERIAL/EQUIPMENT CERTIFICATIONS: <i>NA</i>	
PREPARATORY SITE CONDITIONS: <i>Site Secured - ZONES Set up - Took down Eye Wash, First Aid, Spill Kits onsite Site Staked out - Limits * Preparatory conducted concurrently w/ Pre con meeting See DQCR #1 3/29/05</i>	
CONTRACT VARIANCE: <i>NONE</i>	
COMMENTS: <i>Surveyor will be onsite 4-1-05 Rhino offsite until T&D</i>	
ATTENDEES: <i>Kath Wiloy</i>	
	QC REPRESENTATIVE DATE
	<i>[Signature]</i> <i>3-30-05</i>
	QCSM DATE

BASE CIVIL ENGINEERING WORK CLEARANCE REQUEST

(See Instructions on Reverse)

DATE PREPARED

20050324

1. Clearance is requested to proceed with work at Fire Training Area 4 (SWMUs 109, 110, 111, 112)

Work Order No. _____, Contract No. _____, involving excavation or utility disturbance per

attached sketch. This area has has not been staked or clearly marked.

2. TYPE OF FACILITY/WORK INVOLVED

- A. PAVEMENTS D. FIRE DETECTION & PROTECTION SYSTEMS G. AIRCRAFT OR VEHICULAR TRAFFIC FLOW
 B. DRAINAGE SYSTEMS E. UTILITY OVERHEAD UNDERGROUND H. SECURITY
 C. RAILROAD TRACKS F. COMM OVERHEAD UNDERGROUND I. OTHER Contaminated soil testing / excavation

3. DATE CLEARANCE REQUIRED

28 MAR 2005

4. DATE OF CLEARANCE

~~28 MAR 2005~~

5. SIGNATURE OF REQUESTING OFFICIAL

Sheila Newman

6. TELEPHONE NO.

(505) 784-6391

7. ORGANIZATION

27 CES/CEVC

ORGANIZATION	REMARKS (Use Reverse for additional comments)	REVIEWER'S NAME AND INITIALS
8. A. ELECTRICAL DISTRIBUTION	Call 784-4371 48 hours prior to digging	Handwritten signature and 784-4349
B. STEAM DISTRIBUTION	Call 784-6742 48 hours prior to digging (Gas Distribution Lines) <u>784-4349</u>	
C. WATER DISTRIBUTION	Call 784-6742 48 hours prior to digging <u>784-4349</u>	
D. POL DISTRIBUTION	Call 784-2112 48 hours prior to digging <u>NA</u>	
E. SEWER DISTRIBUTION	Call 784-6742 48 hours prior to digging <u>784-4349</u>	
F. ENVIRONMENTAL	<u>Digging up SWMU 109 (FTA4)</u>	
G. PAVEMENTS/ GROUNDS	N/A	H2
H. FIRE PROTECTION	NA	H2
I. ZONE <u>EMCS</u>	Call 784-1195 48 hours prior to digging <u>N/A</u>	Gas Safety
J. OTHER (Specify)	NA	H2
9. SECURITY POLICE	NA	H2
10. SAFETY	NA	H2
11. COMMUNICATIONS	Call 784-6622 48 hours prior to digging or Red River Service Corp. 784-4775 <u>Area No Cable in</u>	JD Keith 3-24-05
12. BASE OPERATIONS	NA	H2
13. CABLE TV	Call 1-800-321-2537 48 hours prior to digging (New Mexico One Stop)	2005133160
14. COMMERCIAL UTILITY COMPANY	Call 1-800-321-2537 48 hours prior to digging	<u>Handwritten signature and 28 Mar 05</u>
<input checked="" type="checkbox"/> TELEPHONE <u>Quest BERT NOTING</u>	<u>customer # 1622 completed 10:31am 3-24-05</u>	
<input checked="" type="checkbox"/> GAS <u>D/M/GAD</u>	<u>MARKS will be put with this</u>	
<input type="checkbox"/> ELECTRIC <u>Farmers</u>	<u>IF WE need more time</u>	

15. OTHER (Specify)

REQUESTED CLEARANCE

APPROVED

DISAPPROVED

17. TYPED NAME AND SIGNATURE OF APPROVING OFFICER (Chief of Operations Flight or Chief of Engineering Flight)

Handwritten signature

17a. DATE SIGNED

3/24/05

INSTRUCTIONS

The BCE work clearance request is used for any work (contract or in-house) that may disrupt aircraft or vehicular traffic flow, base utility services, protection provided by fire and intrusion alarm system, or routine activities of the installation. This form is used to coordinate the required work with key base activities and keep customer inconvenience to a minimum. It is also used to identify potentially hazardous work conditions in an attempt to prevent accidents. The work clearance request is processed just prior to the start of work. If delays are encountered and the conditions at the job site change (or may have changed) this work clearance request must be reprocessed.

18. REMARKS. *(This section must describe specific precautionary measure to be taken before and during work accomplishment. Specific comments concerning the approved method of excavation, hand or powered equipment, should be included.)*

The site boundaries will be marked. Excavation will occur and the site will be marked for safety. The site will be backfilled two days after excavation (after soil sampling has been accomplished).

PRAC CONTRACT No.: DACA45-00-D-0006

DELIVERY ORDER: 06

PROJECT TITLE AND LOCATION: FIRE TRAINING AREA 4 PCS REMOVAL. CANNON AFB NM

DAILY QUALITY CONTROL REPORT

Daily Report No: 01 Date: 4/18/05

Project Title & Location: FTA 4 PCS Removal Cannon AFB NM

Weather: Pt. Cloudy Precipitation: In.: 0 Temp.: 50 - 80

1. Contract/Subcontractors and Area of Responsibility:

NUMBER	TRADE	HOURS/TOT	EMPLOYER	LOCATION/DESCRIPTION WORK
1	Operator		Rhino Env.	FTA 4 Mobilize, Load, backfill
4	Truckers		Rhino Env.	FTA 4 Mobilize, haul
1	Supt/HSO/QCM		TN&A	FTA 4 Mobilize, oversight

2. Operating Plant or Equipment (not hand tools):

Plant/Equipment	Date of Arrival Or Departure	Date of Safety Check	Hours Used	Hours Idle
1 721D Case onsite (Rhino)	4/18/05 11:20AM	4/18/05	4	
1 - ¾ ton pickup (Rhino)	4/18/05	4/18/05	--	
1 - ¾ ton pickup (TN&A)	4/18/05	4/18/05	--	

3. Work performed today: (Indicate location and description of work performed by prime and/or subcontractors. When network analysis is used, identify work by NAS activity number).

Imported 33 tons (2 loads) clean backfill; hauled 4 loads hydrocarbon impacted soil off-site (total 71 tons); pushed stockpiled backfill into excavation, wheel-rolled with loader

4. Control Activities Performed:

- Preparatory Inspections: Identify features of work and attach minutes.
- Initial Inspections: Identify features of work and attach minutes.
- Follow-up Inspections: List inspections performed, results of inspection compared to specification

Inspected vehicles, heavy equipment certification.

5. Tests Performed and Test Results: Identify test requirement by paragraph number in specifications and/or sheet number in plans.

None required

6. Material Received: Note inspection results and storage provided.

33.08 tons clean backfill (2 loads)

7. Submittals Reviewed:

(a) Submittal No.	(b) Spec/Plan Reference	(c) Item/Task	(d) Action
N/A			

8. Off-Site Surveillance Activities, Including Action Taken:

None

9. Job Safety: List items checked, results, instructions, and corrective actions taken.

Daily safety talk, put caution tape around backfill and recovered soil stockpiles

10. Delays Encountered/Changes From:

Trucks arrived in time for only one round trip today

11. Instructions Received:

12. Remarks: Instructions received or given. Conflict(s) in plans and/or specifications. Delays encountered.

Base (Sheila Newman) delivered signed manifests at 9:45am, TN&A to fill in load specific information

12. Site Visitors:

Name	Representing	Time On Site	Time Off site
Sheila Newman	Cannon AFB CE/CVE	9:45am	10:00am

Contractor's Verification: On behalf of the Contractor, I certify this report is complete and correct, and all materials and equipment used and work performed during this reporting period are in compliance with the contract plans and specifications, to the best of my knowledge, except as may be noted above.

Parley Ansley/S/
CQC SYSTEM MANAGER

4/18/05
DATE

SAFETY AND HEALTH PLAN SIGNATURE FORM

T N & Associates Safety and Health Program

All site personnel must sign this form indicating receipt of the H&SP. Keep this original on site. It becomes part of the permanent project files. Send a copy to the Corporate Safety and Health Manager.

SITE NAME/NUMBER: Cannon Air Force Base (FTA-4), near Clovis New Mexico

DIVISION/LOCATION: T N & Associates, Milwaukee, WI 414-257-4200

CERTIFICATION:

I understand, and agree to comply with, the provisions of the above referenced H&SP for work activities on this project. I agree to report any injuries, illnesses or exposure incidents to the site Health and Safety Coordinator (SHSC). I agree to inform the SHSC about any drugs (legal and illegal) that I take within three days of site work.

PRINTED NAME	SIGNATURE	DATE
Parley Ansley	<i>Parley Ansley</i>	4-18-05
Jerry Rucro	Jerry Rucro	4-18-05
Michael Bigbee	<i>Michael Bigbee</i>	4-18-05
Raul Alvarado	<i>Raul Alvarado</i>	4-18-05
Johnny Thomas	<i>Johnny Thomas</i>	4-18-05
Enrique Gomez	<i>Enrique Gomez</i>	4-18-05
Daniel Marguez	<i>Daniel Marguez</i>	4-18-05

Heavy Equipment Certification

TO: TN & Associates, Inc. (TN&A)

DATE: 4/18/05

FROM: _____

Project Name Former Fire Training Area -4 Soil Removal April 2005

Project Location: Cannon AFB, New Mexico

(1) This form provides certification of machinery and mechanized equipment to be used on the referenced project for the following work:

Description of equipment work:	Backfill/compact, fill trucks; haul non-haz soils & backfill
Project Site:	Cannon AFB, FTA-4 excavation
Subcontractor providing equipment: Address:	Rhino Environmental Service, Inc. PO Box 310, Canutillo, TX 79835
Dates (duration) of equipment work:	4/18/05 - 4/22/05

(2) Inspection and certification of machinery and mechanized equipment, as required by TN&A has been made prior to, but within seven calendar days' advance, of use on the project site. Re-certification will be required for equipment that is used on the project site for more than one year.

Identification of equipment (make, model, serial no.)		Date of Certification
1	721 Case Loader	4/18/05
2	Dump Trucks - 20 yd	4/18/05
3		

(3) The above listed equipment has been inspected and tested as indicated above, and is certified to be in safe operating condition by the following competent individual:

Name	<i>Jerry Ruero</i>	Title	<i>Operator/Driver</i>
Company	Rhino Environmental Services, Inc.		
Signature	<i>[Signature]</i>	Date	<i>4/18/05</i>

(4) If there are any questions regarding this certification, please contact the following TN&A representative:

Parley Ansley, (530) 682-9375

SAFETY AND HEALTH PLAN SIGNATURE FORM

TN & Associates Safety and Health Program

All site personnel must sign this form indicating receipt of the H&SP. Keep this original on site. It becomes part of the permanent project files. Send a copy to the Corporate Safety and Health Manager.

SITE NAME/NUMBER: Cannon Air Force Base (FTA-4), near Clovis New Mexico

DIVISION/LOCATION: TN & Associates, Milwaukee, WI 414-257-4200

CERTIFICATION:

I understand, and agree to comply with, the provisions of the above referenced H&SP for work activities on this project. I agree to report any injuries, illnesses or exposure incidents to the site Health and Safety Coordinator (SHSC). I agree to inform the SHSC about any drugs (legal and illegal) that I take within three days of site work.

PRINTED NAME	SIGNATURE	DATE
Parley Ansley	<i>Parley Ansley</i>	4-18-05
Jerry Russo	<i>Jerry Russo</i>	4-18-05
Michael Bigbee	<i>Michael Bigbee</i>	4-18-05
Raul Alvarado	<i>Raul Alvarado</i>	4-18-05
Johnny Thomas	<i>Johnny Thomas</i>	4-18-05
Enrique Gomez	<i>Enrique Gomez</i>	4-18-05
Daniel Margosa	<i>Daniel Margosa</i>	4-18-05

PRAC CONTRACT NO.: DACA45-00-D-0006

DELIVERY ORDER: 06

PROJECT TITLE AND LOCATION: FIRE TRAINING AREA 4 PCS REMOVAL. CANNON AFB NM

DAILY QUALITY CONTROL REPORT

Daily Report No: 02 Date: 4/19/05
 Project Title & Location: FTA 4 PCS Removal Cannon AFB NM
 Weather: Pt. Cloudy Precipitation: In.: 0 Temp.: 50 - 80

1. Contract/Subcontractors and Area of Responsibility:

NUMBER	TRADE	HOURS/TOT	EMPLOYER	LOCATION/DESCRIPTION WORK
1	Operator		Rhino Env.	FTA 4 Mobilize, Load, backfill
5	Truckers		Rhino Env.	FTA 4 Mobilize, haul
1	Supt/HSO/QCM		TN&A	FTA 4 Mobilize, oversight

2. Operating Plant or Equipment (not hand tools):

Plant/Equipment	Date of Arrival Or Departure	Date of Safety Check	Hours Used	Hours Idle
1 721D Case onsite (Rhino)	4/18/05 11:20AM	4/18/05	4	
1 - ¾ ton pickup (Rhino)	4/18/05	4/18/05	--	
1 - ¾ ton pickup (TN&A)	4/18/05	4/18/05	--	

3. Work performed today: (Indicate location and description of work performed by prime and/or subcontractors. When network analysis is used, identify work by NAS activity number).

Imported estimated 134 tons clean backfill in 8 loads; hauled estimated 176 tons hydrocarbon impacted soil off-site in 9 loads. Continued backfilling excavation, wheel-rolled with loader

4. Control Activities Performed:

- Preparatory Inspections: Identify features of work and attach minutes.
- Initial Inspections: Identify features of work and attach minutes.
- Follow-up Inspections: List inspections performed, results of inspection compared to specification

--

5. Tests Performed and Test Results: Identify test requirement by paragraph number in specifications and/or sheet number in plans.

None required

6. Material Received: Note inspection results and storage provided.

119.88 tons clean backfill (8 loads, only 7 documented by weight tickets)

7. Submittals Reviewed:

(a) Submittal No.	(b) Spec/Plan Reference	(c) Item/Task	(d) Action
N/A			

8. Off-Site Surveillance Activities, Including Action Taken:

none

9. Job Safety: List items checked, results, instructions, and corrective actions taken.

Daily safety talk – talked with all drivers about speed on Base and no dust on-site

10. Delays Encountered/Changes From:

11. Instructions Received:

12. Remarks: Instructions received or given. Conflict(s) in plans and/or specifications. Delays encountered.

12. Site Visitors:

Name	Representing	Time On Site	Time Off site
Donna Russell	Corps	8:10am	8:20am
Keith	Corps	8:10am	8:20am

Contractor's Verification: On behalf of the Contractor, I certify this report is complete and correct, and all materials and equipment used and work performed during this reporting period are in compliance with the contract plans and specifications, to the best of my knowledge, except as may be noted above.

Parley Ansley /S/
 CQC SYSTEM MANAGER

4/19/05

PRAC CONTRACT No.: DACA45-00-D-0006

DELIVERY ORDER: 06

PROJECT TITLE AND LOCATION: FIRE TRAINING AREA 4 PCS REMOVAL. CANNON AFB NM

DAILY QUALITY CONTROL REPORT

Daily Report No: 03 Date: 4/20/05

Project Title & Location: FTA 4 PCS Removal Cannon AFB NM

Weather: Pt. Cloudy Precipitation: In.: 0 Temp.: 50 - 80

1. Contract/Subcontractors and Area of Responsibility:

NUMBER	TRADE	HOURS/TOT	EMPLOYER	LOCATION/DESCRIPTION WORK
1	Operator		Rhino Env.	FTA 4 Mobilize, Load, backfill
4 - 5	Truckers		Rhino Env.	FTA 4 Mobilize, haul
1	Supt/HSO/QCM		TN&A	FTA 4 Mobilize, oversight

2. Operating Plant or Equipment (not hand tools):

Plant/Equipment	Date of Arrival Or Departure	Date of Safety Check	Hours Used	Hours Idle
1 721D Case onsite (Rhino)	4/18/05 11:20AM	4/18/05	4	
1 - ¾ ton pickup (Rhino)	4/18/05	4/18/05	--	
1 - ¾ ton pickup (TN&A)	4/18/05	4/18/05	--	

3. Work performed today: (Indicate location and description of work performed by prime and/or subcontractors. When network analysis is used, identify work by NAS activity number).

Imported estimated 147 tons clean backfill in 7 loads; hauled 175 tons hydrocarbon impacted soil off-site (8 loads). Continued backfilling excavation, wheel-rolled with loader.

4. Control Activities Performed:

- Preparatory Inspections: Identify features of work and attach minutes.
- Initial Inspections: Identify features of work and attach minutes.
- Follow-up Inspections: List inspections performed, results of inspection compared to specification

none

5. Tests Performed and Test Results: Identify test requirement by paragraph number in specifications and/or sheet number in plans.

None required

6. Material Received: Note inspection results and storage provided.

147 tons clean backfill

7. Submittals Reviewed:

(a) Submittal No.	(b) Spec/Plan Reference	(c) Item/Task	(d) Action
N/A			

8. Off-Site Surveillance Activities, Including Action Taken:

none

9. Job Safety: List items checked results, instructions, and corrective actions taken.

Daily safety talk – talked with all drivers about route/speed on Base

10. Delays Encountered/Changes From:

Scales were down this AM, caused delay on trucks returning to Base

11. Instructions Received:

Informed Dennis Timmons that the imported backfill total was running behind and there might be a depression in the excavation. Dennis said he would discuss with Donna Russell and Sheila Newman.

12. Remarks: Instructions received or given. Conflict(s) in plans and/or specifications. Delays encountered.

12. Site Visitors:

Name	Representing	Time On Site	Time Off site
Dennis Timmons	Base		

Contractor's Verification: On behalf of the Contractor, I certify this report is complete and correct, and all materials and equipment used and work performed during this reporting period are in compliance with the contract plans and specifications, to the best of my knowledge, except as may be noted above.

Parley Ansley /S/
CQC SYSTEM MANAGER

4/20/05

PRAC CONTRACT NO.: DACA45-00-D-0006

DELIVERY ORDER: 06

PROJECT TITLE AND LOCATION: FIRE TRAINING AREA 4 PCS REMOVAL. CANNON AFB NM

DAILY QUALITY CONTROL REPORT

Daily Report No: 04 Date: 4/21/05
 Project Title & Location: FTA 4 PCS Removal Cannon AFB NM
 Weather: Pt. Cloudy Precipitation: In.: 0 Temp. : 50 - 80

1. Contract/Subcontractors and Area of Responsibility:

NUMBER	TRADE	HOURS/TOT	EMPLOYER	LOCATION/DESCRIPTION WORK
1	Operator		Rhino Env.	FTA 4 Mobilize, Load, backfill
	Truckers		Rhino Env.	FTA 4 Mobilize, haul
1	Supt/HSO/QCM		TN&A	FTA 4 Mobilize, oversight

2. Operating Plant or Equipment (not hand tools):

Plant/Equipment	Date of Arrival	Date of Safety Check	Hours Used	Hours Idle
1 721D Case onsite (Rhino)	4/18/05 11:20AM	4/18/05	4	
1 - ¾ ton pickup (Rhino)	4/18/05	4/18/05	--	
1 - ¾ ton pickup (TN&A)	4/18/05	4/18/05	--	

3. Work performed today: (Indicate location and description of work performed by prime and/or subcontractors. When network analysis is used, identify work by NAS activity number).

Imported approx. 115 tons clean backfill in 7 loads; hauled 172 tons hydrocarbon impacted soil off-site (8 loads). Continued backfilling excavation, wheel-rolled with loader.

4. Control Activities Performed:

- Preparatory Inspections: Identify features of work and attach minutes.
- Initial Inspections: Identify features of work and attach minutes.
- Follow-up Inspections: List inspections performed, results of inspection compared to specification

none

5. Tests Performed and Test Results: Identify test requirement by paragraph number in specifications and/or sheet number in plans.

None required

6. Material Received: Note inspection results and storage provided.

Approx 115 tons clean backfill

7. Submittals Reviewed:

(a) Submittal No.	(b) Spec/Plan Reference	(c) Item/Task	(d) Action
N/A			

8. Off-Site Surveillance Activities, Including Action Taken:

none

9. Job Safety: List items checked results, instructions, and corrective actions taken.

Daily safety talk – talked with all drivers about route/speed on Base

10. Delays Encountered/Changes From:

11. Instructions Received:

12. Remarks: Instructions received or given. Conflict(s) in plans and/or specifications. Delays encountered.

12. Site Visitors:

Name	Representing	Time On Site	Time Off site

Contractor's Verification: On behalf of the Contractor, I certify this report is complete and correct, and all materials and equipment used and work performed during this reporting period are in compliance with the contract plans and specifications, to the best of my knowledge, except as may be noted above.

Parley Ansley /S/

 CQC SYSTEM MANAGER

4/21/05

PRAC CONTRACT No.: DACA45-00-D-0006

DELIVERY ORDER: 06

PROJECT TITLE AND LOCATION: FIRE TRAINING AREA 4 PCS REMOVAL. CANNON AFB NM

DAILY QUALITY CONTROL REPORT

Daily Report No: 05 Date: 4/22/05
 Project Title & Location: FTA 4 PCS Removal Cannon AFB NM
 Weather: Pt. Cloudy Precipitation: In.: 0 Temp.: 50 - 80

1. Contract/Subcontractors and Area of Responsibility:

NUMBER	TRADE	HOURS/TOT	EMPLOYER	LOCATION/DESCRIPTION WORK
1	Operator		Rhino Env.	FTA 4 Mobilize, Load, backfill
	Truckers		Rhino Env.	FTA 4 Mobilize, haul
1	Supt/HSO/QCM		TN&A	FTA 4 Mobilize, oversight

2. Operating Plant or Equipment (not hand tools):

Plant/Equipment	Date of Departure	Date of Safety Check	Hours Used	Hours Idle
1 721D Case onsite (Rhino)	4/22/05 1800 hrs		12	
1 - ¾ ton pickup (Rhino)	4/22/05		--	
1 - ¾ ton pickup (TN&A)	4/22/05		--	

3. Work performed today: (Indicate location and description of work performed by prime and/or subcontractors. When network analysis is used, identify work by NAS activity number).

Imported approximately 265 tons clean backfill in 13 loads, including 6 loads from local source for topmost layer. Hauled approximately 149 tons hydrocarbon impacted soil off-site (8 loads). Completed backfilling excavation, wheel-rolled with loader. Total estimated imported soil is 693 tons (4/18 - 4/22); estimated total contaminated soil hauled off-site is 744 tons.

4. Control Activities Performed:

- Preparatory Inspections: Identify features of work and attach minutes.
- Initial Inspections: Identify features of work and attach minutes.
- Follow-up Inspections: List inspections performed, results of inspection compared to specification

none

5. Tests Performed and Test Results: Identify test requirement by paragraph number in specifications and/or sheet number in plans.

none required

PRAC CONTRACT NO.: DACA45-00-D-0006

DELIVERY ORDER: 06

PROJECT TITLE AND LOCATION: FIRE TRAINING AREA 4 PCS REMOVAL. CANNON AFB NM

6. Material Received: Note inspection results and storage provided.

265 tons clean backfill

7. Submittals Reviewed:

(a) Submittal No.	(b) Spec/Plan Reference	(c) Item/Task	(d) Action
N/A			

8. Off-Site Surveillance Activities, Including Action Taken:

none

9. Job Safety: List items checked results, instructions, and corrective actions taken.

Daily safety talk – talked with all drivers about covering loads

10. Delays Encountered/Changes From:

11. Instructions Received:

Discussed with USACE need for additional fill; TN&A PM determined that additional fill from local source should be brought in. This was accomplished by end of day. Donna Russell reviewed and photographed site at end of day and released TN&A from job.

12. Remarks: Instructions received or given. Conflict(s) in plans and/or specifications. Delays encountered.

12. Site Visitors:

Name	Representing	Time On Site	Time Off site

Contractor's Verification: On behalf of the Contractor, I certify this report is complete and correct, and all materials and equipment used and work performed during this reporting period are in compliance with the contract plans and specifications, to the best of my knowledge, except as may be noted above.

Parley Ansley /S/
 CQC SYSTEM MANAGER

4/22/05

Appendix C

Waste Manifests

Please print or type
 (Form designed for use on 12-inch typewriter)

NON-HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. N/A	Manifest Doc. No.	2. Page 1 of
3. Generator's Name and Mailing Address Cannon Air Force Base, New Mexico Hwy 60/84 CAFB, New Mexico			Fire Training Area No.# 4	
4. Generator's Phone () 505-301-4716	5. Transporter 1 Company Name Diamondback Disposal Services	6. US EPA ID Number N/A	A. Transporter's Phone 505-392-9996	
7. Transporter 2 Company Name	8. US EPA ID Number	B. Transporter's Phone		
9. Designated Facility Name and Site Address Facility DP-619 8 miles south of Hobbs, on Hwy 18 Lea County		10. US EPA ID Number N/A	C. Facility's Phone 505-392-9996	
11. Waste Shipping Name and Description			12. Containers	13. Total Quantity
a. Hydrocarbon Impacted Soils (18.26)			No.	Type
b. CLEAN FILL				
c.				
d.				
D. Additional Descriptions for Materials Listed Above Non Hazardous			E. Handling Codes for Wastes Listed Above N/A	
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 Dennis R Timmons		Signature <i>[Signature]</i>		Month Day Year 4 18 05
17. Transporter 1 Acknowledgement of Receipt of Materials Printed/Typed Name Michael Bigbee		Signature <i>[Signature]</i>		Month Day Year 4 18 05
18. Transporter 2 Acknowledgement of Receipt of Materials Printed/Typed Name		Signature		Month Day Year
19. Discrepancy Indication Space #5 Address: 4007 Lovington Hwy. Hobbs, NM 88240				
20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.				
Printed/Typed Name Linsey Oyer		Signature <i>[Signature]</i>		Month Day Year 4 18 05

GENERATOR
TRANSPORTER
FACILITY

ORIGINAL - RETURN TO GENERATOR

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

**NON-HAZARDOUS
WASTE MANIFEST**

1. Generator's US EPA ID No.
N/A

Manifest Doc. No.

2. Page 1
of

3. Generator's Name and Mailing Address

Cannon Air Force Base, New Mexico
Hwy 60/84
CAFB, New Mexico

Fire Training Area
No # 4

4. Generator's Phone () 505-301-4716

5. Transporter 1 Company Name
Diamondback Disposal Services

6. US EPA ID Number
N/A

A. Transporter's Phone
505-392-9996

7. Transporter 2 Company Name

8. US EPA ID Number

B. Transporter's Phone

9. Designated Facility Name and Site Address
Facility DP-619
8 miles south of Hobbs, on Hwy 18
Lea County

10. US EPA ID Number
N/A

C. Facility's Phone
505-392-9996

11. Waste Shipping Name and Description

12. Containers
No. Type

13. Total
Quantity

14. Unit
Wt/Vol

a. Hydrocarbon Impacted Soils (18 26)

Belly 8.26 ton

b. CLEAN FILL

16.26 ton

D. Additional Descriptions for Materials Listed Above

Non Hazardous

E. Handling Codes for Wastes Listed Above

N/A

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
4 18 05

Dennis R Timmins

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

Michael Bigler

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

19. Discrepancy Indication Space

#5 Address: 4007 Lovington Hwy
Hobbs, NM 88240

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

L. N. ...

4 18 05

GENERATOR

TRANSPORTER

FACILITY

CABLE SERVICE CO. - Hobbs, N.M. Date 4-18-05 No. 46629
 CERTIFIED WEIGHMASTER # 060

Load of 217 cont Tk. # 1 Tr. # 502

Driver - On 8:30 Off Contractor Diamond Back
 Gross 35310 Customer Ni base
 Tare _____ To Hobbs
 From Clams
 Weighmaster Dawn #060-33
 Driver Mike Bester

Net _____
 NMDA Approved

CABLE SERVICE CO. - Hobbs, N.M. Date 4-18-05 No. 46605
 CERTIFIED WEIGHMASTER # 060

Load of Sand Tk. # 1 Tr. # 1 #502

Driver - On 8:30 Off Contractor Diamond Back
 Gross 35310 Customer Ni base
 Tare _____ To Clams
 From Hobbs
 Weighmaster Dawn #060-33
 Driver Mike Bester

Net 32520
 NMDA Approved

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

**NON-HAZARDOUS
WASTE MANIFEST**

1. Generator's US EPA ID No. *N/A* Manifest Doc. No. 2. Page 1 of

Generator's Name and Mailing Address
**Cannon Air Force Base, New Mexico
Hwy 60/84
+CAFB, New Mexico**

4. Generator's Phone (**505-801-4716**)

Fire Training Area
No. # 4

5. Transporter 1 Company Name **Diamondback Disposal Services** 6. US EPA ID Number *N/A* A. Transporter's Phone **505-392-9996**

7. Transporter 2 Company Name 8. US EPA ID Number B. Transporter's Phone

9. Designated Facility Name and Site Address **Facility DP-619
8 miles south of Hobbs, on Hwy 18
Lea County** 10. US EPA ID Number *N/A* C. Facility's Phone **505-392-9996**

11. Waste Shipping Name and Description	12. Containers		13. Total Quantity	14. Unit Wt/Vol
	No.	Type		
a. Hydrocarbon Impacted Soils	1	Belly	20 16.64	TON
b. CLEAN FILL	1	Belly	16.82	TON
c.				
d.				

Additional Descriptions for Materials Listed Above **Non Hazardous** E. Handling Codes for Wastes Listed Above: **N/A**

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 **Sheela Newman** Signature *[Signature]* Month Day Year **4/18/05**

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name **Raul Alvarado** Signature *[Signature]* Month Day Year **4/18/05**

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name Signature Month Day Year

19. Discrepancy Indication Space
#5 Address: **4007 Lovington Hwy.
Hobbs, NM 88240**

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

Printed/Typed Name **Linsey Dyer** Signature *[Signature]* Month Day Year **4/18/05**

GENERATOR
TRANSPORTER
FACILITY

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

NON-HAZARDOUS WASTE MANIFEST	1. Generator's US EPA ID No. N/A	Manifest Doc. No.	2. Page 1 of	
-------------------------------------	-------------------------------------	-------------------	--------------	--

3. Generator's Name and Mailing Address Cannon Air Force Base, New Mexico Hwy 60/84 +CAFB, New Mexico	Fire Training Area No. # 4
--	-------------------------------

4. Generator's Phone (505-801-4716	6. US EPA ID Number N/A	A. Transporter's Phone 505-392-9996
-------------------------------------	----------------------------	--

5. Transporter 1 Company Name Diamondback Disposal Services	7. Transporter 2 Company Name	B. Transporter's Phone
--	-------------------------------	------------------------

9. Designated Facility Name and Site Address Facility DP-619 8 miles south of Hobbs, on Hwy 18 Lea County	10. US EPA ID Number N/A	C. Facility's Phone 505-392-9996
--	-----------------------------	-------------------------------------

11. Waste Shipping Name and Description	12. Containers		13. Total Quantity	14. Unit Wt/Vol
	No.	Type		
a. Hydrocarbon Impacted Soils	1	Belly	16.64 20 cy	ton
b. CLEAN FILL	1	Belly	16.82	ton
c.				
d.				

D. Additional Descriptions for Materials Listed Above Non Hazardous	E. Handling Codes for Wastes Listed Above N/A
--	--

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 Sheila Newman	Signature <i>Sheila Newman</i>	Month Day Year 4/18/05
-------------------------------------	-----------------------------------	---------------------------

17. Transporter 1 Acknowledgement of Receipt of Materials Printed/Typed Name Raul Alvaredo	Signature <i>Raul Alvaredo</i>	Month Day Year 4/18/05
--	-----------------------------------	---------------------------

18. Transporter 2 Acknowledgement of Receipt of Materials Printed/Typed Name	Signature	Month Day Year
---	-----------	----------------

19. Discrepancy Indication Space

#5 Address: 4007 Lovington Hwy
Hobbs, NM 88240

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

Printed/Typed Name L. J. Keller	Signature <i>L. J. Keller</i>	Month Day Year 4/18/05
------------------------------------	----------------------------------	---------------------------

GENERATOR FACILITY TRANSPORTER

CABLE SERVICE CO. - Hobbs, N.M. Date 4-18-05 No. 46600
 CERTIFIED WEIGHMASTER # 059

Load of Sand Tk. # 2518 Tr. # 2 635

Driver - On 64910 Off Contractor Darwin Beck
 Gross 31270 Customer
 Tare From Hobbs
 Weighmaster # 00033
 Net 33640 Driver Paul Ahrens
 NMDA Approved

CABLE SERVICE CO. - Hobbs, N.M. Date 4-19-05 No. 46653
 CERTIFIED WEIGHMASTER # 060

Load of Sand Cont Tk. # 501 Tr. # T-501

Driver - On 64540 Off Contractor Darwin Beck
 Gross Customer McBase
 Tare From Hobbs NM
 Weighmaster # 0008
 Net Driver Paul Ahrens
 NMDA Approved

**NON-HAZARDOUS
WASTE MANIFEST**

1. Generator's US EPA ID No.
N/A

Manifest Doc. No.

2. Page 1
of

Generator's Name and Mailing Address

Cannon Air Force Base, New Mexico
Hwy 60/84
CAFB, NM

Fire Training Area
No. # 4

4. Generator's Phone (505-301-4716

5. Transporter 1 Company Name
Rhino Environmental Services, Inc.

6. US EPA ID Number
N/A

A. Transporter's Phone
800-762-0241

7. Transporter 2 Company Name

8. US EPA ID Number

B. Transporter's Phone

9. Designated Facility Name and Site Address
Facility DP-619
8 miles south of Hobbs, on Hwy 18
Lea County

10. US EPA ID Number
N/A

C. Facility's Phone
505-392-9996

11. Waste Shipping Name and Description

12. Containers

13. Total
Quantity

14. Unit
Wt/Vol

a. Hydrocarbon Impacted Soils

No.	Type	Quantity	Unit
1		18.96	ton
		20	cy

b.

c.

d.

D. Additional Descriptions for Materials Listed Above

Non Hazardous

E. Handling Codes for Wastes Listed Above

N/A

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
Sheila Newman

Signature
Sheila Newman

Month Day Year
10/18/05

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
Johnny Thomas

Signature
Johnny Thomas

Month Day Year
4/18/05

19. Discrepancy Indication Space

#5 Address: PO Box 310
Camutillo, TX 79835

- generator signed in facility owner #20
- marked out & signed with 6

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

Printed/Typed Name
Linsey Dyer

Signature
Linsey Dyer

Month Day Year
4-18-05

GENERATOR

TRANSPORTER

FACILITY

**NON-HAZARDOUS
 WASTE MANIFEST**

1. Generator's US EPA ID No.

N/A

Manifest Doc. No.

2. Page 1
 of

3. Generator's Name and Mailing Address

Cannon Air Force Base, New Mexico
 Hwy 60/84

Fire Training Area
 No. # 4

4. Generator's Phone (

505-301-4716 CAFB, NM

5. Transporter 1 Company Name

Rhino Environmental Services, Inc.

6. US EPA ID Number

N/A

A. Transporter's Phone

800-762-0241

7. Transporter 2 Company Name

8. US EPA ID Number

B. Transporter's Phone

9. Designated Facility Name and Site Address

Facility DP-619
 8 miles south of Hobbs, on Hwy 18
 Lea County

10. US EPA ID Number

N/A

C. Facility's Phone

505-392-9996

11. Waste Shipping Name and Description

a. Hydrocarbon Impacted Soils

12. Containers

No.

Type

13. Total
 Quantity

14. Unit
 Wt/Vol

1. 18.96
 Belly 20 cy

D. Additional Descriptions for Materials Listed Above

Non Hazardous

E. Handling Codes for Wastes Listed Above

N/A

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

✓ Sharda D. Naugman

[Signature]

10/1/05

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

✓ Johnny Thomas

[Signature]

4/1/05

19. Discrepancy Indication Space

#5 Address: PO Box 310
 Canutillo, TX 79835

- Generator's name on facility manifest is incorrect

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

✓ LINDA DYER

[Signature]

4/10/05

GENERATOR

TRANSPORTER

FACILITY

No. 12320



Albin Smith
506 State Road 467
Clovis, NM 88101
(505) 683-5341

Date _____

Customer's Name Diamond Back

Address _____

Commodity HYDROCARBON IMPACTED SOILS

Carrier RHINO

Driver J. Gomez On _____ Off

LBS NET @ _____ Per lb. Price _____

Shipper Common AEB

Weigher _____

Id# _____

Take weight
33840

EMPTY
WEIGHT

Form #SASD001

ZIP PRINTING - CLOVIS, NM
Form # SASD001

CABLE SERVICE CO., Hobbs, N.M.		Date	4-18-05	N°	46612
CERTIFIED WEIGHMASTER # 060		Tr. #	525	Tr. #	1825
Load of	SAND	Contractor	Diamond Back		
Driver - On	Off <input checked="" type="checkbox"/>	Customer	Hobbs NM		
21760	Gross	To	CLOVIS		
33840	Tare	From	CLOVIS		
37920	Net	Weighmaster	J. Gomez #060-8		
NMDA Approved		Driver	J. Gomez		

Please print or type
(Form designed for use on site (12-inch) typewriter)

**NON-HAZARDOUS
WASTE MANIFEST**

1. Generator's US EPA ID No. *N/A* Manifest Doc. No. 2. Page 1 of

Generator's Name and Mailing Address
Cannon Air Force Base, New Mexico
 Hwy 60/84
 Fire Training Area No.# 4
 4. Generator's Phone (**505-301-4716**) **CAFB, NM**

5. Transporter 1 Company Name **Rhino Environmental Services, Inc.** 6. US EPA ID Number *N/A* A. Transporter's Phone **800-762-0241**

7. Transporter 2 Company Name 8. US EPA ID Number B. Transporter's Phone

9. Designated Facility Name and Site Address **Facility DP-619**
8 miles south of Hobbs, on Hwy 18
Lea County 10. US EPA ID Number *N/A* C. Facility's Phone **505-392-9996**

11. Waste Shipping Name and Description	12. Containers		13. Total	14. Unit
	No.	Type	Quantity	Wt/Vol
a. Hydrocarbon Impacted Soils (116.81)	1	Belly	116.81	ton
b.				
c.				
d.				

D. Additional Descriptions for Materials Listed Above **Non Hazardous** E. Handling Codes for Wastes Listed Above **N/A**

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 **Sheila Newman** Signature *Sheila Newman* Month **4** Day **18** Year **05**

17. Transporter 1 Acknowledgement of Receipt of Materials Printed/Typed Name **Enrique Gomez** Signature *GONZALEZ & GONZALEZ* Month **4** Day **18** Year **05**

18. Transporter 2 Acknowledgement of Receipt of Materials Printed/Typed Name Signature Month Day Year

19. Discrepancy Indication Space
 #5 Address: **PO Box 310**
Canutillo, TX 79835
- generator signed in # 20- marked out & signed correct

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

Printed/Typed Name **LINSEY DYER** Signature *Linsy Dyer* Month **4** Day **18** Year **05**

GENERATOR TRANSPORTER FACILITY

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

**NON-HAZARDOUS
WASTE MANIFEST**

1. Generator's US EPA ID No.
..... N/A

Manifest Doc. No.
.....

2. Page 1
of

3. Generator's Name and Mailing Address

Cannon Air Force Base, New Mexico
Hwy 60/84
CAFB, NM

Fire Training Area
No. # 4

4. Generator's Phone (

505-301-4716

CAFB, NM

5. Transporter 1 Company Name

Rhino Environmental Services, Inc.

6. US EPA ID Number

N/A

A. Transporter's Phone

800-762-0241

7. Transporter 2 Company Name

8. US EPA ID Number

B. Transporter's Phone

9. Designated Facility Name and Site Address

Facility DP-619
8 miles south of Hobbs, on Hwy 18
Lea County

10. US EPA ID Number

N/A

C. Facility's Phone

505-392-9996

11. Waste Shipping Name and Description

Hydrocarbon Impacted Soils (16.81)

12. Containers

No. Type

13. Total Quantity

14. Unit Wt/Vol

1

Belly

16.81

20

ton

cy

D. Additional Descriptions for Materials Listed Above

Non Hazardous

E. Handling Codes for Wastes Listed Above

N/A

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

Sheila Newman

Signature

Sheila Newman

Month Day Year

7 18 05

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name

Enrique Gomez

Signature

GOMEZ & GOMEZ

Month Day Year

7 18 05

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

19. Discrepancy Indication Space

#5 Address: PO Box 310
Camtillo, TX 79835

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

Printed/Typed Name

LINSEY DYER

Signature

Linsy Dyer

Month Day Year

4 18 05

GENERATOR

TRANSPORTER

FACILITY

CABLE SERVICE CO., Hobbs, N.M.
CERTIFIED WEIGHMASTER # 060

Date 4-18-2005 No. 46610

Load of SAND CONT

Tk. # 35 Tr. # 01

Driver - On _____ Off

Contractor GOMEZ & GOMEZ

69 380 Gross

Customer DIAMOND BACK

35 760

To _____

Tare

From CLOVIS N.M.

33620 Net

Weighmaster Enrique Reyes 060-1

Driver Enrique Reyes

NMDA Approved

501107-0111
TRUCK #33

Please print or type
(Form designed for use on a letter (12 inch) typewriter)

NON-HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. N/A	Manifest Doc. No.	2. Page 1 of
3. Generator's Name and Mailing Address Cannon Air Force Base, New Mexico Hwy 60/84 CAFB, New Mexico		Fire Training Area No. # 4		
4. Generator's Phone () 505-301-4716	6. US EPA ID Number N/A	A. Transporter's Phone 505-392-9996		
5. Transporter 1 Company Name Diamondback Disposal Services	8. US EPA ID Number	B. Transporter's Phone		
7. Transporter 2 Company Name	10. US EPA ID Number N/A	C. Facility's Phone 505-392-9996		
9. Designated Facility Name and Site Address Facility DP-619 8 miles south of Hobbs, on Hwy 18 Lea County		C. Facility's Phone		
11. Waste Shipping Name and Description		12. Containers	13. Total Quantity	14. Unit Wt/Vol
a. Hydrocarbon Impacted Soils		No.	Type	Belly 20 ton cy
b. Clean Fill				20.14 ton
c.				
d.				
15. Additional Descriptions for Materials Listed Above Non Hazardous		E. Handling Codes for Wastes Listed Above N/A		
16. 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 X Denis R Timmins		Signature <i>[Signature]</i>		Month Day Year 7/18/05
17. Transporter 1 Acknowledgement of Receipt of Materials Printed/Typed Name X Enrique Gomez		Signature <i>[Signature]</i>		Month Day Year 7/22/05
18. Transporter 2 Acknowledgement of Receipt of Materials Printed/Typed Name		Signature		Month Day Year
19. Discrepancy Indication Space #5 Address: 4007 Lovington Hwy. Hobbs, NM 88240				
20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.				
Printed/Typed Name X Linsley Dyer		Signature <i>[Signature]</i>		Month Day Year 4/22/05

GENERATOR
TRANSPORTER
FACILITY

50114
 TRUCK #35

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

**NON-HAZARDOUS
 WASTE MANIFEST**

1. Generator's US EPA ID No. *N/A* Manifest Doc. No. 2. Page 1 of

3. Generator's Name and Mailing Address
 Cannon Air Force Base, New Mexico
 Hwy 60/84
 CAFB, New Mexico
 Fire Training Area No. # 4

4. Generator's Phone () 505-301-4716
 5. Transporter 1 Company Name Diamondback Disposal Services
 6. US EPA ID Number *N/A*
 A. Transporter's Phone 505-392-9996

7. Transporter 2 Company Name
 8. US EPA ID Number
 B. Transporter's Phone

9. Designated Facility Name and Site Address
 Facility DP-619
 8 miles south of Hobbs, on Hwy 18
 Lea County
 10. US EPA ID Number *N/A*
 C. Facility's Phone 505-392-9996

11. Waste Shipping Name and Description	12. Containers		13. Total Quantity	14. Unit Wt/Vol
	No.	Type		
a. Hydrocarbon Impacted Soils			1934 Belly 20	ky cy
b. Clean FILL			20.14	ky
c.				
d.				

D. Additional Descriptions for Materials Listed Above
 Non Hazardous
 E. Handling Codes for Wastes Listed Above
 N/A

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 *Denise R. Timmins* Signature *[Signature]* Month Day Year *7/18/05*

17. Transporter 1 Acknowledgement of Receipt of Materials
 Printed/Typed Name *Erin [Signature]* Signature *[Signature]* Month Day Year *7/22/05*

18. Transporter 2 Acknowledgement of Receipt of Materials
 Printed/Typed Name Signature Month Day Year

19. Discrepancy Indication Space
 #5 Address: 4007 Lovington Hwy.
 Hobbs, NM 88240

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

Printed/Typed Name *Linda [Signature]* Signature *[Signature]* Month Day Year *7/22/05*

GENERATOR

TRANSPORTER

FACILITY

No. 12360

Date 4-22-05



Albin Smith
506 State Road 467
Clovis, NM 88101
(505) 683-5341

Customer's Name Rhino

Address _____

Commodity Clean Fico

Carrier _____

Driver Gomez On _____ Off _____

LBS NET @ _____ Per lb. Price _____

Shipper _____

Weigher _____

76040 lb Gross
Id# 12360 *IN*

Form #SASD001

No. 12362

Date 4-22-05



Albin Smith
506 State Road 467
Clovis, NM 88101
(505) 683-5341

Customer's Name Gomez & Gomez

Address _____

Commodity Cont. Seal

Carrier _____

Driver Gomez On _____ Off _____

LBS NET @ _____ Per lb. Price _____

Shipper _____

Weigher _____

74440 weight
35700
38680
19.34 ton
TRUCK # 35

Form #SASD001

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

NON-HAZARDOUS WASTE MANIFEST	1. Generator's US EPA ID No. N/A	Manifest Doc. No.	2. Page 1 of	
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3. Generator's Name and Mailing Address <p style="text-align: center;">Canon Air Force Base, New Mexico Hwy 60/84</p>	Fire Training Area No. # 4
--	-------------------------------

4. Generator's Phone (505-301-4716)	6. US EPA ID Number N/A	A. Transporter's Phone 800-762-0241
---------------------------------------	----------------------------	--

5. Transporter 1 Company Name Rhino Environmental Services, Inc.	7. Transporter 2 Company Name	B. Transporter's Phone
---	-------------------------------	------------------------

9. Designated Facility Name and Site Address <p style="text-align: center;">Facility DP-619 8 miles south of Hobbs, on Hwy 18</p>	10. US EPA ID Number N/A	C. Facility's Phone 505-392-9996
--	-----------------------------	-------------------------------------

11. Waste Shipping Name and Description Lea County	12. Containers	13. Total Quantity	14. Unit Wt/Vol
---	----------------	--------------------	-----------------

	No.	Type	Total Quantity	Unit Wt/Vol
--	-----	------	----------------	-------------

a. Hydrocarbon Impacted Soils			21.18 Belly 20	100 cy
-------------------------------	--	--	-------------------	-----------

b. Clean FILL			1. Belly 21.1	100
---------------	--	--	---------------	-----

c.				
----	--	--	--	--

d.				
----	--	--	--	--

D. Additional Descriptions for Materials Listed Above Non Hazardous	E. Handling Codes for Wastes Listed Above N/A
--	--

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 <i>Shane Newman</i>	Signature <i>Shane Newman</i>	Month Day Year 11 18 05
---	----------------------------------	----------------------------

17. Transporter 1 Acknowledgement of Receipt of Materials Printed/Typed Name <i>Ernest Espinoza</i>	Signature <i>Ernest Espinoza</i>	Month Day Year 11 17 05
---	-------------------------------------	----------------------------

18. Transporter 2 Acknowledgement of Receipt of Materials Printed/Typed Name	Signature	Month Day Year
---	-----------	----------------

19. Discrepancy Indication Space

#5 Address: PO Box 310
Canutillo, TX 79835

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

Printed/Typed Name <i>Linkin Dyer</i>	Signature <i>Linkin Dyer</i>	Month Day Year 11 17 05
--	---------------------------------	----------------------------

GENERATOR

TRANSPORTER

FACILITY

No. 12360

Date 4-22-05



Albin Smith
506 State Road 467
Clovis, NM 88101
(505) 683-5341

Customer's Name Rhino

Address _____

Commodity Clear S&O

Carrier _____

76040 lb Gross
Id# 12360 #IN#

Driver Gustavo On _____ Off _____

LBS NET @ _____ Per lb. Price _____

Shipper _____

Weigher _____

Rhino unit 525
Fri.

Form #SASD001

No. 12359

No. 12359

Date _____



Albin Smith
506 State Road 467
Clovis, NM 88101
(505) 683-5341

Customer's Name _____

Address _____

Commodity _____

Carrier _____

6200 lb Gross
359 #IN#

Driver _____ On _____ Off _____

LBS NET @ _____ Per lb. Price _____

Shipper _____

Weigher _____

Form #SASD001

**NON-HAZARDOUS
WASTE MANIFEST**

1. Generator's US EPA ID No. *N/A* Manifest Doc. No. 2. Page 1 of

Generator's Name and Mailing Address

Cannon Air Force Base, New Mexico
Hwy 60/84
CAFB, New Mexico

Fire Training Area
No. # 4

4. Generator's Phone (*505-301-4716*

5. Transporter 1 Company Name
Diamondback Disposal Services

6. US EPA ID Number
N/A

A. Transporter's Phone
505-392-9996

7. Transporter 2 Company Name

8. US EPA ID Number

B. Transporter's Phone

9. Designated Facility Name and Site Address

Facility DP-619
8 miles south of Hobbs, on Hwy 18
Lea County

10. US EPA ID Number
N/A

C. Facility's Phone
505-392-9996

11. Waste Shipping Name and Description

12. Containers 13. Total 14. Unit
No. Type Quantity Wt/Vol

a. *Hydrocarbon Impacted Soils*

1 *Belly* *9.63* *ton*
20 *cy*

b. *clean fill*

1 *Belly* *22.5* *ton*

c.

d.

Additional Descriptions for Materials Listed Above

Non Hazardous

E. Handling Codes for Wastes Listed Above

N/A

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
Sheila Newman

Signature
[Signature]

Month Day Year
4/18/05

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name
Raul Alvarado

Signature
Raul Alvarado

Month Day Year
4/22/05

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

19. Discrepancy Indication Space

#5 Address: *4007 Lovington Hwy.
Hobbs, NM 88240*

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

Printed/Typed Name
LINSEY DYER

Signature
[Signature]

Month Day Year
4/22/05

GENERATOR

TRANSPORTER

FACILITY

**NON-HAZARDOUS
WASTE MANIFEST**

1. Generator's US EPA ID No.

N/A

Manifest Doc. No.

2. Page 1
of

3. Generator's Name and Mailing Address

Cannon Air Force Base, New Mexico
Hwy 60/84
CAFB, New Mexico

Fire Training Area
No. # 4

4. Generator's Phone (

505-301-4716

6. US EPA ID Number

N/A

A. Transporter's Phone

505-392-9996

5. Transporter 1 Company Name

Diamondback Disposal Services

7. Transporter 2 Company Name

8. US EPA ID Number

B. Transporter's Phone

9. Designated Facility Name and Site Address

Facility DP-619
8 miles south of Hobbs, on Hwy 18
Lea County

10. US EPA ID Number

N/A

C. Facility's Phone

505-392-9996

11. Waste Shipping Name and Description

a.

Hydrocarbon impacted Soils

12. Containers

No.

13. Total
Quantity

14. Unit
Wt/Vol

Type

1

Belly

20

cy

b.

Hydrocarbon impacted Soils

1

Belly

22.5

ton

c.

d.

D. Additional Descriptions for Materials Listed Above

Non Hazardous

E. Handling Codes for Wastes Listed Above

N/A

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

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

#5 Address: 4007 Lovington Hwy.
Hobbs, NM 88240

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

No. 12308

Date 4-22-05



Albin Smith
506 State Road 467
Clovis, NM 88101
(505) 683-5341

50540 lb Gross
Id# 12388 *IN*

Customer's Name Rhine

Address _____

Commodity cat sold

Carrier _____

Driver Raul On _____ Off _____

LBS NET @ _____ Per lb. Price _____

Shipper _____

Weigher _____

Raul

Form #SASD001

No. 12373

Date 4-22-05

No. 12373

Date _____



Albin Smith
506 State Road 467
Clovis, NM 88101
(505) 683-5341

76300 lb Gross
Id# 12373 *IN*

Customer's Name _____

Address _____

Commodity Che

Carrier _____

Customer's Name _____

Address _____

Commodity _____

Carrier _____

Driver Raul

Driver _____ On _____ Off _____

LBS NET @ _____

LBS NET @ _____ Per lb. Price _____

Shipper _____

Shipper _____

Weigher _____

Weigher _____

Form #SASD001

Form #SASD001

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

NON-HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. N/A	Manifest Doc. No.	2. Page 1 of
3. Generator's Name and Mailing Address Cannon Air Force Base, New Mexico Hwy 60/84 CAFB, New Mexico				
4. Generator's Phone (505-301-4716		Fire Training Area No. # 4		
5. Transporter 1 Company Name Diamondback Disposal Services #196	6. US EPA ID Number N/A	A. Transporter's Phone 505-392-9996		
7. Transporter 2 Company Name	8. US EPA ID Number	B. Transporter's Phone		
9. Designated Facility Name and Site Address Facility DP-619 8 miles south of Hobbs, on Hwy 18		10. US EPA ID Number N/A	C. Facility's Phone 505-392-9996	
11. Waste Shipping Name and Description Lea County a. Hydrocarbon Impacted Soils		12. Containers No.	13. Total Quantity	14. Unit Wt/Vol
b. Clean Fill		1	Belly 20	18.97 ton 22.56 ton
c.				
d.				
16. Additional Descriptions for Materials Listed Above Non Hazardous		E. Handling Codes for Wastes Listed Above N/A		
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 D. Sheik Newman		Signature <i>[Signature]</i>		Month Day Year 4/18/05
17. Transporter 1 Acknowledgement of Receipt of Materials Printed/Typed Name D. Delavio Omeles		Signature <i>[Signature]</i>		Month Day Year 4/22/05
18. Transporter 2 Acknowledgement of Receipt of Materials Printed/Typed Name		Signature		Month Day Year
19. Discrepancy Indication Space #5 Address: 4007 Lovington Hwy. Hobbs, NM 88240				
20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.				
Printed/Typed Name Linsay Oyer		Signature <i>[Signature]</i>		Month Day Year 4/22/05

GENERATOR
TRANSPORTER
FACILITY

Please print or type
(Form designed for use on site (12 pin) typewriter)

**NON-HAZARDOUS
WASTE MANIFEST**

1. Generator's US EPA ID No. *N/A* Manifest Doc. No. *.....* 2. Page 1 of *.....*

3. Generator's Name and Mailing Address
*Canon Air Force Base, New Mexico
Hwy 60/84
CAFB, New Mexico*

4. Generator's Phone (*505-301-4716*) *#196*

Fire Training Area
No. # 4

5. Transporter 1 Company Name *Diamondback Disposal Services* 6. US EPA ID Number *N/A* A. Transporter's Phone *505-302-9996*

7. Transporter 2 Company Name *.....* 8. US EPA ID Number *.....* B. Transporter's Phone *.....*

9. Designated Facility Name and Site Address *Facility DP-619
8 miles south of Hobbs, on Hwy 18* 10. US EPA ID Number *N/A* C. Facility's Phone *505-302-9996*

11. Waste Shipping Name and Description	12. Containers		13. Total Quantity	14. Unit Wt/Vol
	No.	Type		
a. <i>Hydrocarbon Impacted Soils</i>	<i>1</i>	<i>Bag</i>	<i>18.57</i>	<i>ton</i>
b. <i>Clean FILL</i>	<i>..</i>	<i>..</i>	<i>22.56</i>	<i>ton</i>
c. <i>.....</i>	<i>.....</i>	<i>.....</i>	<i>.....</i>	<i>.....</i>
d. <i>.....</i>	<i>.....</i>	<i>.....</i>	<i>.....</i>	<i>.....</i>

D. Additional Descriptions for Materials Listed Above *Non Hazardous* E. Handling Codes for Wastes Listed Above *N/A*

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 *Sheila Newman* Signature *Sheila Newman* Month Day Year *4/18/05*

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name *Detavio Ombler* Signature *Detavio Ombler* Month Day Year *4/22/05*

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name *.....* Signature *.....* Month Day Year *.....*

19. Discrepancy Indication Space
*#5 Address: 4007 Lovington Hwy.
Hobbs, NM 88240*

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

Printed/Typed Name *Lindsay Dyer* Signature *Lindsay Dyer* Month Day Year *4/22/05*

GENERATOR
TRANSPORTER
FACILITY

No. 12369

Date 4-22-05



Albin Smith
506 State Road 467
Clovis, NM 88101
(505) 683-5341

Customer's Name Rhino

Address _____

Commodity _____

Carrier _____

Sand

Driver Octavio On _____ Off _____

LBS NET @ _____ Per lb. Price _____

Shipper _____

Weigher _____

80360 lb Gross
Id# 12356 #IN#

Form #SASD001

No. 12364

Date 4-22-05



Albin Smith
506 State Road 467
Clovis, NM 88101
(505) 683-5341

73480 lb Gross
Id# 6423 #IN#

Customer's Name _____

Address _____

Commodity _____

Carrier _____

Cow

Driver Octavio On _____ Off _____

LBS NET @ _____ Per lb. Price _____

Shipper _____

Weigher _____

Form #SASD001

No. 12364



Albin Smith
506 State Road 467
Clovis, NM 88101
(505) 683-5341

73690 16 Gross
10# 6423 #IN*

Date _____

Customer's Name _____

Address _____

Commodity _____

Carrier _____

Driver _____ On _____ Off _____

LBS NET @ _____ Per lb. Price _____

Shipper _____

Weigher _____

NON-HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. N/A	Manifest Doc. No.	2. Page 1 of
Generator's Name and Mailing Address Cannon Air Force Base, New Mexico Hwy 60/84 CAFB, New Mexico		Fire Training Area No.# 4		
4. Generator's Phone ()	505-301-4716	6. US EPA ID Number	A. Transporter's Phone	
5. Transporter 1 Company Name	Diamondback Disposal Services	N/A	505-392-9996	
7. Transporter 2 Company Name		8. US EPA ID Number	B. Transporter's Phone	
9. Designated Facility Name and Site Address	Facility DP-619 8 miles south of Hobbs, on Hwy 18 Lea County	10. US EPA ID Number	C. Facility's Phone	
		N/A	505-392-9996	
11. Waste Shipping Name and Description		12. Containers	13. Total Quantity	14. Unit Wt/Vol
a.	Hydrocarbon Impacted Soils	No. Type	20.28	TON
		1 Belly	20	cy
b.	Clean Fill		20.63	TON
		1 Belly		
c.				
d.				
D. Additional Descriptions for Materials Listed Above		E. Handling Codes for Wastes Listed Above		
Non Hazardous		N/A		
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
X Sheila Neuman		Sheila Neuman		4/18/05
17. Transporter 1 Acknowledgement of Receipt of Materials		Signature		Month Day Year
Printed/Typed Name		Signature		Month Day Year
X Michael Bigbee		Michael Bigbee		10/12/05
18. Transporter 2 Acknowledgement of Receipt of Materials		Signature		Month Day Year
Printed/Typed Name		Signature		Month Day Year
19. Discrepancy Indication Space				
#5 Address:		4007 Lovington Hwy. Hobbs, NM 88240		
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
X Linsey Ayer		Linsey Ayer		1/12/05

GENERATOR
TRANSPORTER
FACILITY

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

NON-HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. N/A	Manifest Doc. No.	2. Page 1 of	
3. Generator's Name and Mailing Address Cannon Air Force Base, New Mexico Hwy 60/84 CAFB, New Mexico			Fire Training Area No. # 4		
4. Generator's Phone (505-301-4716		6. US EPA ID Number N/A		A. Transporter's Phone 505-392-9996	
5. Transporter 1 Company Name Diamondback Disposal Services		7. Transporter 2 Company Name		B. Transporter's Phone	
9. Designated Facility Name and Site Address Facility DP-619 8 miles south of Hobbs, on Hwy 18 Lea County		10. US EPA ID Number N/A		C. Facility's Phone 505-392-9996	
11. Waste Shipping Name and Description			12. Containers No.	13. Total Quantity	14. Unit Wt/Vol
a. Hydrocarbon Impacted Soils			1	2024 Belly 20	10N cy
b. Clean FUEL			1	2016	10N
c.					
d.					
D. Additional Descriptions for Materials Listed Above Non Hazardous			E. Handling Codes for Wastes Listed Above N/A		
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 Sheila Newman		Signature <i>Sheila Newman</i>		Month Day Year 4/18/05	
17. Transporter 1 Acknowledgement of Receipt of Materials		Signature <i>Michael P. Bee</i>		Month Day Year 10/12/05	
18. Transporter 2 Acknowledgement of Receipt of Materials		Signature		Month Day Year	
19. Discrepancy Indication Space #5 Address: 4007 Lovington Hwy. Hobbs, NM 88240					
20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.					
Printed/Typed Name LINKA DYER		Signature <i>Linka Dyer</i>		Month Day Year 4/22/05	

GENERATOR
TRANSPORTER
FACILITY

CABLE SERVICE CO. - Hobbs, N.M. Date 4-20-05 N^o 46625
CERTIFIED WEIGHMASTER # 060

Load of ROAD DIRT Tk. # 502 Tr. # 1

Driver - On _____ Off Contractor Diamond Back
75870 Gross Customer Fy Berra PPS
Tare From Clavis
Weighmaster [Signature] # 0008
NMDA Approved Net Driver Y. Wise Duglas

CABLE SERVICE CO. - Hobbs, N.M. Date 4-22-05 N^o 46699
CERTIFIED WEIGHMASTER # 060

Load of Stone Tk. # 302 Tr. # _____

Driver - On _____ Off Contractor _____
76500 Gross Customer Diamond Back
Tare From Clavis
Weighmaster [Signature] # 0053
NMDA Approved Net Driver [Signature]

NON-HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. N/A	Manifest Doc. No.	2. Page 1 of
Generator's Name and Mailing Address Cannon Air Force Base, New Mexico Hwy 60/84 CAFB, New Mexico		Fire Training Area No. # 4		
4. Generator's Phone (505-301-4716	6. US EPA ID Number N/A		A. Transporter's Phone 505-392-9996	
5. Transporter 1 Company Name Diamondback Disposal Services	8. US EPA ID Number		B. Transporter's Phone	
7. Transporter 2 Company Name	10. US EPA ID Number N/A		C. Facility's Phone 505-392-9996	
9. Designated Facility Name and Site Address Facility DP-619 8 miles south of Hobbs, on Hwy 18 Lea County		C. Facility's Phone		
11. Waste Shipping Name and Description		12. Containers	13. Total Quantity	14. Unit Wt/Vol
a. Hydrocarbon Impacted Soils		No. 1	Type Belly	18.84 ton 20 cy
b. Clean Filled				19.80 ton
c.				
d.				
17. Additional Descriptions for Materials Listed Above Non Hazardous		E. Handling Codes for Wastes Listed Above N/A		
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 Sheila Newman		Signature <i>Sheila Newman</i>		Month Day Year 4/18/05
17. Transporter 1 Acknowledgement of Receipt of Materials Printed/Typed Name Raul Alvarado		Signature <i>Raul Alvarado</i>		Month Day Year 4/22/05
18. Transporter 2 Acknowledgement of Receipt of Materials Printed/Typed Name		Signature		Month Day Year
19. Discrepancy Indication Space #5 Address: 4007 Lovington Hwy. Hobbs, NM 88240				
20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.				
Printed/Typed Name Lynsey Dyer		Signature <i>Lynsey Dyer</i>		Month Day Year 4/22/05

GENERATOR
TRANSPORTER
FACILITY

NON-HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. N/A	Manifest Doc. No.	2. Page 1 of
3. Generator's Name and Mailing Address Cannon Air Force Base, New Mexico Hwy 60/84 CAFB, New Mexico		Fire Training Area No. # 4		
4. Generator's Phone (905-301-4716				
5. Transporter 1 Company Name Diamondback Disposal Services	6. US EPA ID Number N/A	A. Transporter's Phone 505-392-9996		
7. Transporter 2 Company Name	8. US EPA ID Number	B. Transporter's Phone		
9. Designated Facility Name and Site Address Facility DP-619 8 miles south of Hobbs, on Hwy 18 Lea County	10. US EPA ID Number N/A	C. Facility's Phone 505-392-9996		
11. Waste Shipping Name and Description		12. Containers	13. Total Quantity	14. Unit W/Vol
a. Hydrocarbon Impacted Soils		No. 1	Type Belly	18.84 20 cy
b. Clean Fill				17.80 1000
c.				
d.				
D. Additional Descriptions for Materials Listed Above Non Hazardous		E. Handling Codes for Wastes Listed Above N/A		
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 Sheik Newman		Signature <i>Sheik Newman</i>		Month Day Year 4/18/85
17. Transporter 1 Acknowledgement of Receipt of Materials				
Printed/Typed Name Raul Alvarado		Signature <i>Raul Alvarado</i>		Month Day Year
18. Transporter 2 Acknowledgement of Receipt of Materials				
Printed/Typed Name		Signature		Month Day Year
19. Discrepancy Indication Space #5 Address: 4007 Lovington Hwy Hobbs, NM 88240				
20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.				
Printed/Typed Name Linsey Dyer		Signature <i>Linsey Dyer</i>		Month Day Year

GENERATOR
TRANSPORTER
FACILITY

No. 12361

Date _____



Albin Smith
506 State Road 467
Clovis, NM 88101
(505) 683-5341

Customer's Name _____

Address _____

Commodity _____

Carrier _____

Driver _____ On _____ Off _____

LBS NET @ _____ Per lb. Price _____

Shipper _____

Weigher _____

68340 lb Gross
Id# 12361 *IN*

10 lb Gross
IN

Form #SASD001

No. 12365

No. 12365

Date _____



Albin Smith
506 State Road 467
Clovis, NM 88101
(505) 683-5341

Customer's Name _____

Address _____

Commodity _____

Carrier _____

Driver Raul On _____ Off _____

LBS NET @ _____ Per lb. Price _____

Shipper _____

Weigher _____

70860 lb Gross
Id# 12365 *IN*

*Okaw
FED*

Form #SASD001

**NON-HAZARDOUS
 WASTE MANIFEST**

1. Generator's US EPA ID No. **N/A** Manifest Doc. No. 2. Page 1 of

Generator's Name and Mailing Address
**Cannon Air Force Base, New Mexico
 Hwy 60/84
 CAFB, New Mexico**

4. Generator's Phone (**505-301-4716**) **Fire Training Area
 No.# 4**

5. Transporter 1 Company Name **Diamondback Disposal Services** 6. US EPA ID Number **N/A** A. Transporter's Phone **505-392-9996**

7. Transporter 2 Company Name 8. US EPA ID Number B. Transporter's Phone

9. Designated Facility Name and Site Address **Facility DP-619
 8 miles south of Hobbs, on Hwy 18
 Lea County** 10. US EPA ID Number **N/A** C. Facility's Phone **505-392-9996**

11. Waste Shipping Name and Description	12. Containers		13. Total Quantity	14. Unit Wt/Vol
	No.	Type		
a. Hydrocarbon Impacted Soils	1	Belly	19.14	ton
b. Clean Fill			16.93	ton
c.				
d.				

Additional Descriptions for Materials Listed Above **Non Hazardous** E. Handling Codes for Wastes Listed Above **N/A**

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 **Sheila Newman** Signature **Sheila Newman** Month **4** Day **18** Year **05**

17. Transporter 1 Acknowledgement of Receipt of Materials
 Printed/Typed Name **Daniel Morquez** Signature **Daniel Morquez** Month **4** Day **22** Year **05**

18. Transporter 2 Acknowledgement of Receipt of Materials
 Printed/Typed Name Signature Month Day Year

19. Discrepancy Indication Space
 #5 Address: **4007 Lovington Hwy.
 Hobbs, NM 88240**

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

Printed/Typed Name **Musey Dyer** Signature **Musey Dyer** Month **14** Day **22** Year **05**

GENERATOR
TRANSPORTER
FACILITY

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

NON-HAZARDOUS WASTE MANIFEST	1. Generator's US EPA ID No. N/A	Manifest Doc. No.	2. Page 1 of	
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3. Generator's Name and Mailing Address Cannon Air Force Base, New Mexico Hwy 60/84 CAFB, New Mexico	Fire Training Area No. # 4
---	-------------------------------

4. Generator's Phone (505-301-4716	6. US EPA ID Number N/A	A. Transporter's Phone 505-392-9996
-------------------------------------	----------------------------	--

7. Transporter 2 Company Name	8. US EPA ID Number	B. Transporter's Phone
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9. Designated Facility Name and Site Address Facility DP-619 8 miles south of Hobbs, on Hwy 18 Lea County	10. US EPA ID Number N/A	C. Facility's Phone 505-392-9996
--	-----------------------------	-------------------------------------

11. Waste Shipping Name and Description	12. Containers		13. Total Quantity	14. Unit W/Vol
	No.	Type		
a. Hydrocarbon Impacted Soils	1	Belly	19.14 20	ton cy
b. CLEAN FILL			16.93	ton
c.				
d.				

D. Additional Descriptions for Materials Listed Above Non Hazardous	E. Handling Codes for Wastes Listed Above N/A
--	--

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 Sheila Newman	Signature Sheila Newman	Month Day Year 4 18 05
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17. Transporter 1 Acknowledgement of Receipt of Materials Printed/Typed Name Daniel Marquez	Signature Daniel Marquez	Month Day Year 4 22 05
---	-----------------------------	---------------------------

18. Transporter 2 Acknowledgement of Receipt of Materials Printed/Typed Name	Signature	Month Day Year
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19. Discrepancy Indication Space

#5 Address: 4007 Lovington Hwy
Hobbs, NM 88240

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

Printed/Typed Name Lusley Dyer	Signature Lusley Dyer	Month Day Year 4 22 05
-----------------------------------	--------------------------	---------------------------

GENERATOR

TRANSPORTER

FACILITY

No. 12363

Date 4-30-05



Albin Smith
506 State Road 467
Clovis, NM 88101
(505) 683-5341

Customer's Name Diamondback

Address P.O. Box 2491 505-392-9996

Id# 69620 lb Gross
6423 #INH

Commodity _____

Carrier Dan's TRK

Driver Daniel On _____ Off

LBS NET @ _____ Per lb. Price _____

Shipper _____

Weigher Jim

clean back fill

Form #SASD001

No. 12367

Date 4-22-05



Albin Smith
506 State Road 467
Clovis, NM 88101
(505) 683-5341

Customer's Name Diamondback

Address P.O. Box 2491 392-9996

Id# 74040 lb Gross
6423 #INH

Commodity _____

Carrier Dan's TRK

Driver Daniel On _____ Off

LBS NET @ _____ Per lb. Price _____

Shipper _____

Weigher Jim

Contaminated soil

Form #SASD001

TRUCK # 35

GOMEZ & GOMEZ

Please print or type
(Form designed for use on site (12-inch) typewriter)

**NON-HAZARDOUS
WASTE MANIFEST**

1. Generator's US EPA ID No. N/A Manifest Doc. No. 2. Page 1 of

Generator's Name and Mailing Address
Cannon Air Force Base, New Mexico
Hwy 60/84
CAFB, New Mexico
Fire Training Area
No. # 4

4. Generator's Phone (505-301-4716
5. Transporter 1 Company Name Diamondback Disposal Services
6. US EPA ID Number N/A
A. Transporter's Phone 505-392-9996

7. Transporter 2 Company Name
8. US EPA ID Number
B. Transporter's Phone

9. Designated Facility Name and Site Address
Facility DP-619
8 miles south of Hobbs, on Hwy 18
Lea County
10. US EPA ID Number N/A
C. Facility's Phone 505-392-9996

11. Waste Shipping Name and Description	12. Containers		13. Total Quantity	14. Unit Wt/Vol
	No.	Type		
a. Hydrocarbon Impacted Soils	1	Belly	15.97 20	ton oz
b.				
c.				
d.				

Additional Descriptions for Materials Listed Above
Non Hazardous
E. Handling Codes for Wastes Listed Above
N/A

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: Sheila Newman Signature: [Signature] Month Day Year: 4/5/05

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Enrique Gomez Signature: [Signature] Month Day Year: 4/22/05

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name: Signature: Month Day Year:

19. Discrepancy Indication Space
#5 Address: 4007 Lovington Hwy.
Hobbs, NM 88240

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

Printed/Typed Name: Lindsey Oyer Signature: [Signature] Month Day Year: 4/22/05

GENERATOR
TRANSPORTER
FACILITY

7/10/05 #95

CONRAD GOMEZ

Please print or type
(Form designed for use on site (12-pin) typewriters)

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.
N/A

Manifest Doc. No.
2. Page 1 of

3. Generator's Name and Mailing Address
Cannon Air Force Base, New Mexico
Hwy 60/84
CAFB, New Mexico

Fire Training Area
No. # 4

4. Generator's Phone (505-301-4716

5. Transporter 1 Company Name
Diamondback Disposal Services

6. US EPA ID Number
N/A

A. Transporter's Phone
505-392-9996

7. Transporter 2 Company Name

8. US EPA ID Number

B. Transporter's Phone

9. Designated Facility Name and Site Address
Facility DP-619
8 miles south of Hobbs, on Hwy 18
Lea County

10. US EPA ID Number
N/A

C. Facility's Phone
505-392-9996

11. Waste Shipping Name and Description

12. Containers
No. Type

a. Hydrocarbon Impacted Soils

13. Total Quantity
1 Belly 20 cy

b.

c.

d.

D. Additional Descriptions for Materials Listed Above
Non Hazardous

E. Handling Codes for Wastes Listed Above
N/A

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
Sheila Newman

Signature
Sheila Newman

Month Day Year
4/18/05

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name
Conrad Gomez

Signature
Conrad Gomez

Month Day Year
7/1/05

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name

Signature

Month Day Year

19. Discrepancy Indication Space
#5 Address: 4007 Lovington Hwy
Hobbs, NM 88240

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

Printed/Typed Name
Linsy Aker

Signature
Linsy Aker

Month Day Year
7/1/05

GENERATOR

TRANSPORTER

FACILITY

PRODUCER BULK MILK MANIFEST

SELECT MILK PRODUCERS

538923

TRUCK: 35 TANKER H.D.#: _____
DATE: 4-22-06 TIME: _____ AM
PM

S A S Dairy 608 BTU 35-62
506 SR-467
Clovis, NM 88101 Cert. 71971

FARM TANK: 1 2

DESTINATION: _____

SCALE WT: _____

LOAD _____ AM
TIME START: _____ PM FINISH: _____ AM
PM

HAULING CO: _____ WASH TAG CK

DRIVER: _____ LIC. #: _____

STICK INCHES: _____ TEMP _____ F°

SCHEDULED DELIVERY	AM	ROUTE NUMBER
DATE: _____	PM	
TIME: _____		

TO BE FILLED OUT AT RECEIVING PLANT/BUYER

RECEIVED BY: _____

DATE: _____ TIME: _____ AM
PM

LID SEAL # _____ VALVE SEAL # _____

CIP SEAL # _____

77600
35760 35760 ✓

31940
~~48440?~~



White - DAIRY Green - LAB Yellow - BUYER Pink - MMA Goldenrod - TRAN

No. 12378



Albin Smith
506 State Road 467
Clovis, NM 88101
(505) 683-5341

Date _____

Customer's Name _____

Address _____

Commodity _____

Carrier _____

Driver _____ On _____ Off _____

LBS NET @ _____ Per lb. Price _____

Shipper _____

Weigher _____

83940 lb Gross
Id# 12378 *IN*

Form #SASD001

No. 12374

Date _____



Albin Smith
506 State Road 467
Clovis, NM 88101
(505) 683-5341

Customer's Name _____

Address _____

Commodity _____

Carrier _____

61980 lb Gross
Id# 12374 *IN*

Driver _____ On _____ Off _____

LBS NET @ _____ Per lb. Price _____

Shipper _____

Weigher _____

No. 12378

Date 4-22-05



Albin Smith
506 State Road 467
Clovis, NM 88101
(505) 683-5341

Customer's Name Rhino

Address _____

Commodity Clean FCO

Carrier _____

Driver Raul On _____ Off _____

LBS NET @ _____ Per lb. Price _____

Shipper _____

Weigher _____

83940 lb Gross
Id# 12378 *IN*

83940
31270
52670

26.34 tax

Form #SASD001

No. 12374

Date 4-22-05



Albin Smith
506 State Road 467
Clovis, NM 88101
(505) 683-5341

Customer's Name Rhino

Address _____

Commodity Clean FCO

Carrier _____

Driver Gustavo On _____ Off _____

LBS NET @ _____ Per lb. Price _____

Shipper _____

Weigher _____

61980 lb Gross
Id# 12374 *IN*

61980
33840

14.07 tax

Form #SASD001

#12386
Assume
Clear or
dirty?
22.10T

No. 12386

Date 4-22-05

Customer's Name GOMEZ & GOMEZ

Address _____

Commodity _____

Carrier TRUCK # 35

Driver _____ On _____ Off _____

LBS NET @ _____ Per lb. Price _____

Shipper _____

Receiver _____

Form #SAS001



Albin Smith
506 State Road 467
Clovis, NM 88101
(505) 683-5341

7784.0
33600

44120
44200?

No. 12376



Albin Smith
506 State Road 467
Clovis, NM 88101
(505) 683-5341

Date _____

Customer's Name _____

Address _____

Commodity _____

Carrier _____

81860 lb Gross
Id# 12376 *IN*

Driver _____ On _____ Off _____

LBS NET @ _____ Per lb. Price _____

Shipper _____

Weigher _____

Form #SASD001

No. 12379



Albin Smith
506 State Road 467
Clovis, NM 88101
(505) 683-5341

Date _____

Customer's Name _____

Address _____

Commodity _____

Carrier _____

73100 lb Gross
Id# 12379 *IN*

Driver _____ On _____ Off _____

LBS NET @ _____ Per lb. Price _____

Shipper _____

Weigher _____

No. 12376

Date 4-22-05



Albin Smith
506 State Road 467
Clovis, NM 88101
(505) 683-5341

Customer's Name Rhino

Address _____

Commodity Clean Feed

Carrier _____

81860 lb Gross
Id# 12376 *IN*

Driver Raul On _____ Off _____

LBS NET @ _____ Per lb. Price _____

Shipper _____

Weigher _____

81860
- 31270 ✓
50590
25.30 ton

Form #SASD001

No. 12379

Date 4-22-05



Albin Smith
506 State Road 467
Clovis, NM 88101
(505) 683-5341

Customer's Name Rhino

Address _____

Commodity Clean Feed

Carrier _____

73100 lb Gross
Id# 12379 *IN*

Driver Gustavo On _____ Off _____

LBS NET @ _____ Per lb. Price _____

Shipper _____

Weigher _____

73100
- 33840
39260
19.63 ton

Form #SASD001

No. 387

Date _____



Albin Smith
506 State Road 467
Clovis, NM 88101
(505) 683-5341

Customer's Name _____

Address _____

Commodity _____

Carrier _____

Driver _____ On _____ Off _____

LBS NET @ _____ Per lb. Price _____

Shipper _____

Weigher _____

71740 lb Gross
Id# 12387 *IN*

Form #SASD001

No. 12385

Date _____



Albin Smith
506 State Road 467
Clovis, NM 88101
(505) 683-5341

Customer's Name _____

Address _____

Commodity _____

Carrier _____

Driver _____ On _____ Off _____

LBS NET @ _____ Per lb. Price _____

Shipper _____

Weigher _____

77900 lb Gross
Id# 12385 *IN*

Form #SASD001

No. 12385

Date 4-22-05



Albin Smith
506 State Road 467
Clovis, NM 88101
(505) 683-5341

Customer's Name Rheno

Address

Commodity Clean Feed

Carrier

77900 lb Gross
Id# 12385 *IN*

Driver Gustav On Off

LBS NET @ Per lb. Price

Shipper

Weigher

77900
33840
44060

22.03 ton

Form #SASD001

No. 12387

Date 4-22-05



Albin Smith
506 State Road 467
Clovis, NM 88101
(505) 683-5341

Customer's Name Rheno

Address

Commodity Clean Feed

Carrier

71740 lb Gross
Id# 12387 *IN*

Driver Gomez On Off

LBS NET @ Per lb. Price

Shipper

Weigher

71740
35760
35980

17.99 ton

Form #SASD001

**NON-HAZARDOUS
 WASTE MANIFEST**

1. Generator's US EPA ID No. *N/A* Manifest Doc. No. 2. Page 1 of

Generator's Name and Mailing Address
Cannon Air Force Base, New Mexico
Hwy 60/84
CAFB, New Mexico
 Fire Training Area No. # 4

4. Generator's Phone (**505-301-4716**)
 5. Transporter 1 Company Name **Diamondback Disposal Services** *196* 6. US EPA ID Number *N/A* A. Transporter's Phone **505-392-9996**

7. Transporter 2 Company Name 8. US EPA ID Number B. Transporter's Phone

9. Designated Facility Name and Site Address
Facility DP-619
8 miles south of Hobbs, on Hwy 18
Lea County
 10. US EPA ID Number *N/A* C. Facility's Phone **505-392-9996**

11. Waste Shipping Name and Description	12. Containers		13. Total Quantity	14. Unit Wt/Vol
	No.	Type		
a. Hydrocarbon Impacted Soils (19 tons)	19	ton Belly	23.74 20	ton cy
b. clean fill			23.03	ton
c.				
d.				

Additional Descriptions for Materials Listed Above: **Non Hazardous**
 E. Handling Codes for Wastes Listed Above: **N/A**

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: *Shirley Nauman* Signature: *Shirley Nauman* Month Day Year: **3/18/05**

17. Transporter 1 Acknowledgement of Receipt of Materials
 Printed/Typed Name: *Octavio Omeles* Signature: *Octavio Omeles* Month Day Year: **4/19/05**

18. Transporter 2 Acknowledgement of Receipt of Materials
 Printed/Typed Name: Signature: Month Day Year:

19. Discrepancy Indication Space
 #5 Address: **4007 Lovington Hwy. Hobbs, NM 88240**

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

Printed/Typed Name: *Linsy Over* Signature: *Linsy Over* Month Day Year: **4/19/05**

GENERATOR TRANSPORTER FACILITY

Please print or type
(Form designed for use on site (12-inch typewriter))

**NON-HAZARDOUS
WASTE MANIFEST**

1. Generator's US EPA ID No. *N/A* Manifest Doc. No. 2. Page 1 of

3. Generator's Name and Mailing Address
*Cannon Air Force Base, New Mexico
 Hwy 60/R4
 CAFB, New Mexico* Fire Training Area No. # 4

4. Generator's Phone (*505-301-4715*)
 5. Transporter 1 Company Name *Diamondback Disposal Services 196* 6. US EPA ID Number *N/A* A. Transporter's Phone *505-392-9996*

7. Transporter 2 Company Name 8. US EPA ID Number B. Transporter's Phone

9. Designated Facility Name and Site Address
*Facility DP-619
 8 miles south of Hobbs, on Hwy 18
 Lea County* 10. US EPA ID Number *N/A* C. Facility's Phone *505-392-9996*

11. Waste Shipping Name and Description	12. Containers		13. Total Quantity	14. Unit W/Vol
	No.	Type		
a. <i>Hydrocarbon Impacted Soils (19 tons)</i>	<i>19</i>	<i>ton Belly</i>	<i>25</i> <i>20</i>	<i>ton</i> <i>ey</i>
b. <i>clean fuel</i>			<i>23.03</i>	<i>ton</i>
c.				
d.				

D. Additional Descriptions for Materials Listed Above *Non Hazardous* E. Handling Codes for Wastes Listed Above *N/A*

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 *Sheik Wainman* Signature *Sheik Wainman* Month Day Year *4 18 05*

17. Transporter 1 Acknowledgement of Receipt of Materials
 Printed/Typed Name *Octavio Ornelas* Signature *Octavio Ornelas* Month Day Year *4 19 05*

18. Transporter 2 Acknowledgement of Receipt of Materials
 Printed/Typed Name Signature Month Day Year

19. Discrepancy Indication Space
 #5 Address: *4007 Lovington Hwy.
 Hobbs, NM 88240*

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

Printed/Typed Name *LINSEY DYER* Signature *LINSEY DYER* Month Day Year *4 20 05*

GENERATOR

TRANSPORTER

FACILITY

CABLE SERVICE CO. - Hobbs, N.M. Date 4-18-05 No. 46627
 CERTIFIED WEIGHMASTER # 060

Load of _____ Tk. # 196 Tr. # _____
 Driver - On _____ Off Contractor Robert & Son
 Gross _____ Customer Diamond Back
35750 To Hobbs
 Tare _____ From Cluis
 Weighmaster Dawn #060-3
 Driver Retavia Ornela

NMDA Approved _____ Net _____

CABLE SERVICE CO. - Hobbs, N.M. Date 4/19/05 No. 46654
 CERTIFIED WEIGHMASTER # 060

Load of Sand Cont. Tk. # 196 Tr. # _____
 Driver - On Off _____ Contractor Robert & Son
 Gross 73750 Customer Diamond Back
 Tare _____ To Clavis Artales
 From Hobbs
 Weighmaster Dawn #060-3
 Driver Retavia Ornela

NMDA Approved _____ Net _____

CABLE SERVICE CO. - Hobbs, N.M. Date 4/19/05 No. 46644
 CERTIFIED WEIGHMASTER # 060

Load of Sand Tk. # 196 Tr. # _____
 Driver - On 81810 Off Contractor Diamond Back
 Gross _____ Customer _____
 Tare _____ To Clavis, NM
 From Hobbs, NM
 Weighmaster Dawn #060-3
 Driver Retavia Ornela

NMDA Approved _____ Net _____

**NON-HAZARDOUS
 WASTE MANIFEST**

1. Generator's US EPA ID No.

Manifest Doc. No.

2. Page 1
 of

N/A

Generator's Name and Mailing Address

Cannon Air Force Base, New Mexico
 Hwy 60/84
 CAFB, New Mexico

Fire Training Area
 No. # 4

4. Generator's Phone (505-301-4716

5. Transporter 1 Company Name
 Diamondback Disposal Services

6. US EPA ID Number

N/A

A. Transporter's Phone

505-392-9996

7. Transporter 2 Company Name

8. US EPA ID Number

B. Transporter's Phone

9. Designated Facility Name and Site Address

Facility DP-619
 8 miles south of Hobbs, on Hwy 18

10. US EPA ID Number

N/A

C. Facility's Phone

505-392-9996

11. Waste Shipping Name and Description

12. Containers

13. Total

14. Unit

No.

Type

Quantity

Wt/Vol

a. Hydrocarbon Impacted Soils

1

Belly

17.75 ton
~~20~~

b. Clean Fill

1

Belly

15.98 ton

c.

d.

Additional Descriptions for Materials Listed Above

Non Hazardous

E. Handling Codes for Wastes Listed Above

N/A

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

Sheila Newman

Sheila Newman

1 4 8 05

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

Raul Alvarado

Raul Alvarado

4 19 05

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

19. Discrepancy Indication Space

#5 Address: 4007 Lovington Hwy.
 Hobbs, NM 88240

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

Linsy Ayea

Linsy Ayea

4 19 05

GENERATOR

TRANSPORTER

FACILITY

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

**NON-HAZARDOUS
WASTE MANIFEST**

1. Generator's US EPA ID No. *N/A* Manifest Doc. No. 2. Page 1 of

3. Generator's Name and Mailing Address
*Cannon Air Force Base, New Mexico
Hwy 60/84
CAFB, New Mexico* Fire Training Area No. 4

4. Generator's Phone (*505-301-4716*) 5. Transporter 1 Company Name
Diamondback Disposal Services 6. US EPA ID Number
N/A A. Transporter's Phone
505-302-9996

7. Transporter 2 Company Name 8. US EPA ID Number B. Transporter's Phone

9. Designated Facility Name and Site Address
*Facility DP-619
8 miles south of Hobbs, on Hwy 18* 10. US EPA ID Number
N/A C. Facility's Phone
505-302-9996

11. Waste Shipping Name and Description 12. Containers No. Type 13. Total Quantity 14. Unit Wt/Vol

a. *Hydrocarbon Impacted Soils* 1 *Belly* 20 *cy*

b. *Clean Fill*

c.

d.

D. Additional Descriptions for Materials Listed Above
Non Hazardous E. Handling Codes for Wastes Listed Above
N/A

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 *Sheila Neuman* Signature *Sheila Neuman* Month Day Year *4/18/05*

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name *Raul Alvarado* Signature *Raul Alvarado* Month Day Year *4/19/05*

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name Signature Month Day Year

19. Discrepancy Indication Space
*#5 Address: 4007 Lovington Hwy.
Hobbs, NM 88240*

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

Printed/Typed Name *Linco, Inc* Signature *Linco, Inc* Month Day Year *4/19/05*

GENERATOR
TRANSPORTER
FACILITY

CABLE SERVICE CO. - Hobbs, N.M. Date 4/20/2005 No. 46648
 CERTIFIED WEIGHMASTER # 060
 Load of Contaminated Dirt Tk. # 501 Tr. # 1
 Driver - On _____ Off
66760 Gross
 Tare _____
 Net _____
 Contractor Diamond Back
 Customer Air Force Base
 To Hobbs N.M.
 From Clavis N.M.
 Weighmaster Foreign Reg # 460-1
 Driver Paul Alvarez
 NMDA Approved _____

CABLE SERVICE CO. - Hobbs, N.M. Date 4-19-05 No. 46659
 CERTIFIED WEIGHMASTER # 060
 Load of Clean Sand Tk. # 301 Tr. # 1
 Driver - On _____ Off _____
63930 Gross
 Tare _____
 Net _____
 Contractor Asst. Reg # 460-1
 Customer Diamond Back
 To Clavis
 From Hobbs
 Weighmaster Foreign Reg # 460-33
 Driver Paul Alvarez
 NMDA Approved _____

**NON-HAZARDOUS
 WASTE MANIFEST**

1. Generator's US EPA ID No. N/A Manifest Doc. No. 2. Page 1 of

Generator's Name and Mailing Address
Cannon Air Force Base, New Mexico
Hwy 60/84
CAFB, New Mexico Fire Training Area No.# 4

4. Generator's Phone (505-301-4716)
 5. Transporter 1 Company Name Diamondback Disposal Services
 6. US EPA ID Number N/A
 A. Transporter's Phone 505-392-9996

7. Transporter 2 Company Name
 8. US EPA ID Number
 B. Transporter's Phone

9. Designated Facility Name and Site Address
Facility DP-619
8 miles south of Hobbs, on Hwy 18
Lea County
 10. US EPA ID Number N/A
 C. Facility's Phone 505-392-9996

11. Waste Shipping Name and Description	12. Containers		13. Total Quantity	14. Unit Wt/Vol
	No.	Type		
a. <u>Hydrocarbon Impacted Soils</u>	<u>1</u>	<u>Belly</u>	<u>24.61</u>	<u>ton</u>
b. <u>clean fill</u>	<u>1</u>	<u>Belly</u>	<u>16.97</u>	<u>ton</u>
c. <u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>
d. <u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>

D. Additional Descriptions for Materials Listed Above
Non Hazardous

E. Handling Codes for Wastes Listed Above
N/A

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 Sheila Newman Signature [Signature] Month 4 Day 18 Year 05

17. Transporter 1 Acknowledgement of Receipt of Materials
 Printed/Typed Name Michael Bigbee Signature [Signature] Month 4 Day 19 Year 05

18. Transporter 2 Acknowledgement of Receipt of Materials
 Printed/Typed Name Signature Month Day Year

19. Discrepancy Indication Space
#5 Address: 4007 Lovington Hwy. Hobbs, NM 88240

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

Printed/Typed Name Linsy Deer Signature [Signature] Month 4 Day 19 Year 05

GENERATOR
TRANSPORTER
FACILITY

Please print or type
(Form designed for use on 12 1/2 inch typewriter)

NON-HAZARDOUS WASTE MANIFEST	1. Generator's US EPA ID No. N/A	Manifest Doc. No.	2. Page 1 of	
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3. Generator's Name and Mailing Address Cannon Air Force Base, New Mexico Hwy 60/84 CAFB, New Mexico	Fire Training Area No # 4
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4. Generator's Phone (505-301-4716)	6. US EPA ID Number N/A	A. Transporter's Phone 505-392-9996
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5. Transporter 1 Company Name Diamondback Disposal Services	7. Transporter 2 Company Name	B. Transporter's Phone
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9. Designated Facility Name and Site Address Facility DP-619 8 miles south of Hobbs, on Hwy 18	10. US EPA ID Number N/A	C. Facility's Phone 505-392-9996
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11. Waste Shipping Name and Description	12. Containers		13. Total Quantity	14. Unit Wt/Vol
	No.	Type		
a. Hydrocarbon Impacted Soils	1	Belly	20	cy
b. clean fill	1	Belly	16	9.7 ton
c.				
d.				

D. Additional Descriptions for Materials Listed Above Non Hazardous	E. Handling Codes for Wastes Listed Above N/A
--	--

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 Sheila Newman	Signature 	Month Day Year 4/18/05
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17. Transporter 1 Acknowledgement of Receipt of Materials Printed/Typed Name Michael B. Beebe	Signature 	Month Day Year 4/19/05
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18. Transporter 2 Acknowledgement of Receipt of Materials Printed/Typed Name	Signature	Month Day Year
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19. Discrepancy Indication Space

#5 Address: 4007 Lovington Hwy.
Hobbs, NM 88240

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

Printed/Typed Name Lincoln Dyer	Signature 	Month Day Year 4/19/05
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TRANSPORTER #2

GENERATOR

TRANSPORTER

FACILITY

CABLE SERVICE CO. - Hobbs, N.M. Date 4/19/05 No. 46646
 CERTIFIED WEIGHMASTER # 060

Load of Gravel Tk. # 502 Tr. # _____
 Driver - On _____ Off Contractor Diamondback
84 520 Gross Customer _____
 Tare _____ To Hobbs NM
 From Clavis NM
 Weighmaster [Signature] # 060-3
 Driver [Signature]
 NMDA Approved _____ Net _____

CABLE SERVICE CO. - Hobbs, N.M. Date 4-19-05 No. 46643
 CERTIFIED WEIGHMASTER # 060

Load of clean sand Tk. # 502 Tr. # 1
 Driver - On _____ Off _____ Contractor Air Force Base
69 240 Gross Customer Diamondback Airport
 Tare _____ To Clavis
 From Hobbs
 Weighmaster [Signature] # 060-37
 Driver [Signature]
 NMDA Approved _____ Net _____

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. Manifest Doc. No. 2. Page 1 of

Generator's Name and Mailing Address N/A

4. Generator's Phone () Cannon Air Force Base, New Mexico Fire Training Area No.# 4
 5. Transporter 1 Company Name Hwy 60/84

505-301-4716 CAFB, New Mexico US EPA ID Number A. Transporter's Phone
 Diamondback Disposal Services N/A 505-392-9996

7. Transporter 2 Company Name US EPA ID Number B. Transporter's Phone
 8. N/A

9. Designated Facility Name and Site Address 10. US EPA ID Number C. Facility's Phone

Facility DP-619 N/A 505-392-9996
 8 miles south of Hobbs, on Hwy 18

11. Waste Shipping Name and Description 12. Containers No. Type 13. Total Quantity 14. Unit W/Vol

a. 1 Belly 16.57 ton
 Hydrocarbon Impacted Soils -20 ey

b. 1 Belly 15.32 ton
 Clean Fill

c.

d.

D. Additional Descriptions for Materials Listed Above E. Handling Codes for Wastes Listed Above

Non Hazardous N/A

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
 Sheila Jaurman [Signature] 4/18/05

17. Transporter 1 Acknowledgement of Receipt of Materials Signature Month Day Year
 Michael Bigber [Signature] 4/19/05

18. Transporter 2 Acknowledgement of Receipt of Materials Signature Month Day Year

Printed/Typed Name Signature Month Day Year

19. Discrepancy Indication Space
 #5 Address: 4007 Lovington Hwy.
 Hobbs, NM 88240

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
 Linsey Oyer [Signature] 4/19/05

GENERATOR
TRANSPORTER
FACILITY

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. N/A

Manifest Doc. No.

2. Page 1 of

3. Generator's Name and Mailing Address

N/A

4. Generator's Phone ()

Cannon Air Force Base, New Mexico
Hwy 60/84

Fire Training Area
No. # 4

5. Transporter 1 Company Name

505-301-4716

CAFB, New Mexico

US EPA ID Number

A. Transporter's Phone

7. Transporter 2 Company Name

Diamondback Disposal Services

8.

US EPA ID Number

B. Transporter's Phone

505-392-9996

9. Designated Facility Name and Site Address

Facility DP-619
8 miles south of Hobbs, on Hwy 18

10.

US EPA ID Number

C. Facility's Phone

505-392-9996

11. Waste Shipping Name and Description

12. Containers
No. Type

13. Total
Quantity

14. Unit
Wt/Vol

a.

Hydrocarbon Impacted Soils

1. Bulk

16.51
20 gal

b.

clean fill

1. Bulk

15.32
100

c.

d.

D. Additional Descriptions for Materials Listed Above

Non Hazardous

E. Handling Codes for Wastes Listed Above

N/A

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

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

#5 Address: 4007 Lovington Hwy.
Hobbs, NM 88240

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

CABLE SERVICE CO. - Hobbs, N.M. Date 4-19-03 No. 46638
 CERTIFIED WEIGHMASTER # 060
 Load of Contaminated Oil Tr. # 502 Tr. # 010
 Driver - On Off Contractor D. General Buick
68450 Gross Customer A. J. Falcum
 To Hobbs
 Tare From Clou's
 Weighmaster Samuel # 060-38
 Driver Mike Begler
 NMDA Approved Net

CABLE SERVICE CO. - Hobbs, N.M. Date 4-19-03 No. 46630
 CERTIFIED WEIGHMASTER # 050
 Load of SA Tr. # 502 Tr. # 1
 Driver - On Off Contractor D. General Buick
65960 Gross Customer A. J. Falcum
35310 Tare From Hobbs
 Weighmaster Samuel # 060-38
 Driver Mike Begler
 NMDA Approved Net

**NON-HAZARDOUS
WASTE MANIFEST**

1. Generator's US EPA ID No. *N/A* Manifest Doc. No. 2. Page 1 of

Generator's Name and Mailing Address
 Cannon Air Force Base, New Mexico
 Hwy 60/84
 CAFB, NM
 Fire Training Area
 No # 4

4. Generator's Phone (*505-301-4716*)
 5. Transporter 1 Company Name *Rhino Environmental Services, Inc.* 6. US EPA ID Number *N/A* A. Transporter's Phone *800-762-0241*
 7. Transporter 2 Company Name 8. US EPA ID Number B. Transporter's Phone
 9. Designated Facility Name and Site Address *Facility DP-619* 10. US EPA ID Number *N/A* C. Facility's Phone *505-392-9996*
8 miles south of Hobbs, on Hwy 18
Lea County

11. Waste Shipping Name and Description	12. Containers		13. Total Quantity	14. Unit Wt/Vol
	No.	Type		
a. <i>Hydrocarbon Impacted Soils</i>	<i>1</i>	<i>Belly</i>	<i>19.82</i> <i>20</i>	<i>ton</i> <i>cy</i>
b. <i>Clean Fill</i>	<i>1</i>	<i>Belly</i>	<i>16.47</i>	<i>ton</i>
c.				
d.				

Additional Descriptions for Materials Listed Above: *Non Hazardous*
 E. Handling Codes for Wastes Listed Above: *N/A*

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: *Sheila Newman* Signature: *Sheila Newman* Month: *4* Day: *18* Year: *05*

17. Transporter 1 Acknowledgement of Receipt of Materials
 Printed/Typed Name: *Johnny Thomas* Signature: *Johnny Thomas* Month: *4* Day: *19* Year: *05*

18. Transporter 2 Acknowledgement of Receipt of Materials
 Printed/Typed Name: Signature: Month: Day: Year:

19. Discrepancy Indication Space
 #5 Address: *PO Box 310*
Canutillo, TX 79835
- generator signed in #120
then in correct spot.

Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.
 Printed/Typed Name: *LINSEY DYER* Signature: *Linsy Dyer* Month: *4* Day: *19* Year: *05*

GENERATOR
TRANSPORTER
FACILITY

Please print or type
(Form designed for use on 24x12 inch typewriter)

**NON-HAZARDOUS
WASTE MANIFEST**

1. Generator's US EPA ID No. *N/A* Manifest Doc. No. *.....* 2. Page 1 of *.....*

3. Generator's Name and Mailing Address
*Cannon Air Force Base, New Mexico
Hwy 60/84* Fire Training Area No. # 4
4. Generator's Phone (*505-301-4716*) *CAFB, NM*

5. Transporter 1 Company Name *Rhino Environmental Services, Inc.* 6. US EPA ID Number *N/A* A. Transporter's Phone *800-762-0241*

7. Transporter 2 Company Name *.....* 8. US EPA ID Number *.....* B. Transporter's Phone *.....*

9. Designated Facility Name and Site Address *Facility DP-619
8 miles south of Hobbs, on Hwy 18
Lea County* 10. US EPA ID Number *N/A* C. Facility's Phone *505-392-9996*

11. Waste Shipping Name and Description	12. Containers		13. Total Quantity	14. Unit Wt/Vol
	No.	Type		
a. <i>Hydrocarbon Impacted Soils</i>	<i>1</i>	<i>20</i>	<i>19.52</i>	<i>ton cy</i>
b. <i>Clean Fill</i>	<i>1</i>	<i>16.41</i>	<i>16.41</i>	<i>ton</i>
c. <i>.....</i>	<i>.....</i>	<i>.....</i>	<i>.....</i>	<i>.....</i>
d. <i>.....</i>	<i>.....</i>	<i>.....</i>	<i>.....</i>	<i>.....</i>

D. Additional Descriptions for Materials Listed Above *Non Hazardous* E. Handling Codes for Wastes Listed Above *N/A*

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 *Shirley Newman* Signature *Shirley Newman* Month *11* Day *18* Year *05*

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
#5 Address: *PO Box 310
Canutillo, TX 79835*

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

Printed/Typed Name *LINDSEY DYER* Signature *Lindsay Dyer* Month *11* Day *19* Year *05*

GENERATOR

TRANSPORTER

FACILITY

CABLE SERVICE CO. - Hobbs, N.M. Date 4-19-09 N° 46640
CERTIFIED WEIGHMASTER # 060

Load of Contaminated Soil Tk. # 505 Tr. # T-523

Driver - On 73470 Off _____
Gross

33840 Tare

Net _____
NMDA Approved

Contractor Driscoll Truck

Customer Oil Field

To 14115

From 14115

Weighmaster [Signature] # 060-21

Driver [Signature]

CABLE SERVICE CO. - Hobbs, N.M. Date 4-19-09 N° 46652
CERTIFIED WEIGHMASTER # 060

Load of Soil Tk. # _____ Tr. # _____

Driver - On 66780 Off
Gross

33840 Tare

Net _____
NMDA Approved

Contractor Driscoll Truck

Customer Oil Field

To 14115

From 14115

Weighmaster [Signature] # 060-21

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. **N/A** Manifest Doc. No. 2. Page 1 of

Generator's Name and Mailing Address
**Cannon Air Force Base, New Mexico
Hwy 60/84
CAFB, NM**

Fire Training Area
No.# 4

4. Generator's Phone (**505-301-4716**)

5. Transporter 1 Company Name **Rhino Environmental Services, Inc.** 6. US EPA ID Number **N/A** A. Transporter's Phone **800-762-0241**

7. Transporter 2 Company Name 8. US EPA ID Number B. Transporter's Phone

9. Designated Facility Name and Site Address **Facility DP-619
8 miles south of Hobbs, on Hwy 18
Lea County** 10. US EPA ID Number **N/A** C. Facility's Phone **505-392-9996**

11. Waste Shipping Name and Description	12. Containers		13. Total Quantity	14. Unit Wt/Vol
	No.	Type		
a. Hydrocarbon Impacted Soils	1	Belly	22.8 20	tan cy
b. CLEAN FILL	1	Belly	15.14	tan
c.				
d.				

D. Additional Descriptions for Materials Listed Above **Non Hazardous** E. Handling Codes for Wastes Listed Above **N/A**

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 **Sheila Neuman** Signature **Sheila Neuman** Month Day Year **11/8/05**

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name **Johnny THOMAS** Signature **Johnny Thomas** Month Day Year **11/19/05**

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name Signature Month Day Year

19. Discrepancy Indication Space
#5 Address: **PO Box 310
Canutillo, TX 79835**

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

Printed/Typed Name **Linsen Dyer** Signature **Linsen Dyer** Month Day Year **11/19/05**

GENERATOR
TRANSPORTER
FACILITY

**NON-HAZARDOUS
WASTE MANIFEST**

1. Generator's US EPA ID No. *N/A* Manifest Doc. No. *.....* 2. Page 1 of *.....*

3. Generator's Name and Mailing Address
*Cannon Air Force Base, New Mexico
Hwy 60/84* Fire Training Area
No # 4

4. Generator's Phone (*505-301-4716*) *CAFB, NM*

5. Transporter 1 Company Name *Rhino Environmental Services, Inc.* 6. US EPA ID Number *N/A* A. Transporter's Phone *800-762-0241*

7. Transporter 2 Company Name *.....* 8. US EPA ID Number *.....* B. Transporter's Phone *.....*

9. Designated Facility Name and Site Address
*Facility DP-619
8 miles south of Hobbs, on Hwy 18
Lea County* 10. US EPA ID Number *N/A* C. Facility's Phone *505-392-9996*

11. Waste Shipping Name and Description	12. Containers		13. Total Quantity	14. Unit Wt/Vol
	No.	Type		
a. <i>Hydrocarbon Impacted Soils</i>	<i>1</i>	<i>Belly</i>	<i>22.81</i>	<i>lb</i>
b. <i>Clay Fill</i>	<i>1</i>	<i>Belly</i>	<i>15.14</i>	<i>lb</i>
c. <i>.....</i>	<i>.....</i>	<i>.....</i>	<i>.....</i>	<i>.....</i>
d. <i>.....</i>	<i>.....</i>	<i>.....</i>	<i>.....</i>	<i>.....</i>

D. Additional Descriptions for Materials Listed Above
Non Hazardous E. Handling Codes for Wastes Listed Above
N/A

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 *Sheila Neuman* Signature *Sheila Neuman* Month Day Year *4/18/05*

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name *Johnny Thomas* Signature *Johnny Thomas* Month Day Year *4/19/05*

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name *.....* Signature *.....* Month Day Year *.....*

19. Discrepancy Indication Space
#5 Address: *PO Box 310
Canutillo, TX 79835*

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 *4/19/05*

GENERATOR

TRANSPORTER

FACILITY

CABLE SERVICE CO. - Hobbs, N.M. Date 4-20-05 No. 46649
 CERTIFIED WEIGHMASTER # 060
 Load of CONTAMINATED DIRT Tk. # China Tr. # 1 GP306
 Driver - On Off Contractor Airforce Base
79 460 Gross Customer Diamond Back Disposal
 Tare To Hobbs
 From clavis
 Weighmaster Enrique Reyes #060-1
 Driver Wagon Horn
 Net
 NMDA Approved

CABLE SERVICE CO. - Hobbs, N.M. Date 4-11-05 No. 46660
 CERTIFIED WEIGHMASTER # 060
 Load of clean sand Tk. # 525 Tr. # T-525
 Driver - On Off Contractor Airforce Base
64 120 Gross Customer Diamond Back Disposal
33,840 Tare To clavis
 From Hobbs
 Weighmaster Enrique Reyes #060-1
 Driver Wagon Horn
 Net
 NMDA Approved

Please print or type
(Form designed for use by a (12-point) typewriter.)

**NON-HAZARDOUS
WASTE MANIFEST**

1. Generator's US EPA ID No. *N/A* Manifest Doc. No. 2. Page 1 of

Generator's Name and Mailing Address
**Cannon Air Force Base, New Mexico
 Hwy 60/84
 CAFB, New Mexico**
 Fire Training Area
 No. # 4

4. Generator's Phone (*505-301-4716*)
 5. Transporter 1 Company Name *Diamondback Disposal Services* 6. US EPA ID Number *N/A* A. Transporter's Phone *505-392-9996*

7. Transporter 2 Company Name 8. US EPA ID Number B. Transporter's Phone

9. Designated Facility Name and Site Address 10. US EPA ID Number C. Facility's Phone
*Facility DP-619
 8 miles south of Hobbs, on Hwy 18* *N/A* *505-392-9996*

11. Waste Shipping Name and Description	12. Containers		13. Total Quantity	14. Unit Wt/Vol
	No.	Type		
a. <i>Hydrocarbon Impacted Soils</i>	<i>1</i>	<i>Belly</i>	<i>18.89</i> <i>20</i>	<i>TON</i>
b. <i>Clean Fill</i>	<i>1</i>	<i>Belly</i>	<i>17.00</i>	<i>TON</i>
c.				
d.				

D. Additional Descriptions for Materials Listed Above *Non Hazardous* E. Handling Codes for Wastes Listed Above *N/A*

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 *Neumas* Signature *[Signature]* Month *4* Day *18* Year *05*

17. Transporter 1 Acknowledgement of Receipt of Materials
 Printed/Typed Name *Raul Alvarez* Signature *[Signature]* Month *4* Day *19* Year *05*

18. Transporter 2 Acknowledgement of Receipt of Materials
 Printed/Typed Name Signature Month Day Year

19. Discrepancy Indication Space
 #5 Address: *4007 Lovington Hwy.
 Hobbs, NM 88240*

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

Printed/Typed Name *Linsley Dyer* Signature *[Signature]* Month *4* Day *19* Year *05*

GENERATOR
TRANSPORTER
FACILITY

**NON-HAZARDOUS
WASTE MANIFEST**

1. Generator's US EPA ID No.

N/A

Manifest Doc. No.

2. Page 1
of

3. Generator's Name and Mailing Address

Cannon Air Force Base, New Mexico
Hwy 60/84
CAFB, New Mexico

Fire Training Area
No # 4

4. Generator's Phone (

505-301-4716

6. US EPA ID Number

N/A

A. Transporter's Phone

505-392-9996

5. Transporter 1 Company Name

Diamondback Disposal Services

8. US EPA ID Number

B. Transporter's Phone

7. Transporter 2 Company Name

9. Designated Facility Name and Site Address

Facility DP-619
8 miles south of Hobbs, on Hwy 18

10. US EPA ID Number

N/A

C. Facility's Phone

505-392-9996

11. Waste Shipping Name and Description

12. Containers
No. Type

13. Total
Quantity

14. Unit
Wt/Vol

a. Hydrocarbon Impacted Soils

1

Belly

18.89 ton
~~20 cy~~

b. Clean Fill

1

Belly

17.00 ton

D. Additional Descriptions for Materials Listed Above

Non Hazardous

E. Handling Codes for Wastes Listed Above

N/A

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

Neuman

Signature

Month Day Year
14/18/05

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name

Raul Alvarez

Signature

Month Day Year
14/19/05

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

19. Discrepancy Indication Space

#5 Address: 4007 Lovington Hwy.
Hobbs, NM 88240

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

Printed/Typed Name

Linsley Over

Signature

Month Day Year
14/19/05

GENERATOR

TRANSPORTER

FACILITY

CABLE SERVICE CO. - Hobbs, N.M. Date 4-19-05 N° 46639
 CERTIFIED WEIGHMASTER # 060

Load of contaminated dirt Tk. # 501 Tr. # 1

Driver - On 69050 Off Gross
 Tare Net

Contractor Air Force Base
 Customer Drummond Beck Inspect
 To Hobbs
 From Clevis
 Weighmaster Sammy Rey # 060-38
 Driver Raul Ahrends

NMDA Approved

CABLE SERVICE CO. - Hobbs, N.M. Date 4-18-05 N° 46631
 CERTIFIED WEIGHMASTER # 060

Load of dmd Tk. # 501 Tr. #

Driver - On 35250 Off Gross
31270
 Tare Net

Contractor Drummond Beck
 Customer Air Force
 To Clevis
 From Hobbs
 Weighmaster T. K. Smith # 060-8
 Driver Raul Ahrends

NMDA Approved

**NON-HAZARDOUS
WASTE MANIFEST**

1. Generator's US EPA ID No. *N/A* Manifest Doc. No. 2. Page 1 of

Generator's Name and Mailing Address

Cannon Air Force Base, New Mexico
Hwy 60/84
CAFB, New Mexico

Fire Training Area
No. # 4

4. Generator's Phone () *505-301-4716*

5. Transporter 1 Company Name
Diamondback Disposal Services

6. US EPA ID Number
N/A

A. Transporter's Phone
505-392-9996

7. Transporter 2 Company Name

8. US EPA ID Number

B. Transporter's Phone

9. Designated Facility Name and Site Address
*Facility DP-619
8 miles south of Hobbs, on Hwy 18
Lea County*

10. US EPA ID Number
N/A

C. Facility's Phone
505-392-9996

11. Waste Shipping Name and Description

12. Containers 13. Total 14. Unit
No. Type Quantity Wt/Vol

a. *Hydrocarbon Impacted Soils*

19.19 *ton*
20 *cy*

b. *Clean Fill*

c.

d.

Additional Descriptions for Materials Listed Above

Non Hazardous

E. Handling Codes for Wastes Listed Above

N/A

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
(X) Dennis R Timmon

Signature
Dennis R Timmon

Month Day Year
7 18 05

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name
(X) Daniel Marquez

Signature
Daniel Marquez

Month Day Year
7 19 05

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

19. Discrepancy Indication Space

#5 Address: *4007 Lovington Hwy.
Hobbs, NM 88240*

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

Printed/Typed Name
(X) Lindsey Dyer

Signature
Lindsey Dyer

Month Day Year
7 19 05

GENERATOR

TRANSPORTER

FACILITY

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

**NON-HAZARDOUS
WASTE MANIFEST**

1. Generator's US EPA ID No. *N/A* Manifest Doc. No. 2. Page 1 of

3. Generator's Name and Mailing Address
*Cannon Air Force Base, New Mexico
Hwy 60/84
CAFB, New Mexico* Fire Training Area No. # 4

4. Generator's Phone () *505-301-4716*

5. Transporter 1 Company Name *Diamondback Disposal Services* 6. US EPA ID Number *N/A* A. Transporter's Phone *505-392-9996*

7. Transporter 2 Company Name 8. US EPA ID Number B. Transporter's Phone

9. Designated Facility Name and Site Address *Facility DP-619
8 miles south of Hobbs, on Hwy 18
Lea County* 10. US EPA ID Number *N/A* C. Facility's Phone *505-392-9996*

11. Waste Shipping Name and Description	12. Containers		13. Total Quantity	14. Unit W/Vol
	No.	Type		
a. <i>Hydrocarbon Impacted Soils</i>	<i>1</i>	<i>Belly</i>	<i>20</i>	<i>cy</i>
b. <i>clean fill</i>				
c.				
d.				

D. Additional Descriptions for Materials Listed Above *Non Hazardous* E. Handling Codes for Wastes Listed Above *N/A*

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 *Dessie R. Tomson* Signature *[Signature]* Month *7* Day *15* Year *05*

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
*#5 Address: 4007 Lovington Hwy.
Hobbs, NM 88240*

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

Printed/Typed Name *LINSY DYER* Signature *[Signature]* Month *4* Day *17* Year *05*

GENERATOR
TRANSPORTER
FACILITY

CABLE SERVICE CO. - Hobbs, N.M.		Date	4/20/2005	SN#	46663
CERTIFIED WEIGHMASTER # 060					
Load of Contaminated Dirt		Tk. #	DM 3	Tr. #	T 77
Driver - On	Off <input checked="" type="checkbox"/>	Contractor	Diamond Back Trucking		
74140	Gross	Customer	AIR FORCE BASE		
		To	Hobbs N.M.		
	Tare	From	CLOVIS N.M.		
		Weighmaster	Enrique Rey #060-1		
	Net	Driver	Daniel [Signature]		
NMDA Approved					

Trucker Has Backfill ticket

NC 1979

HOBBS IRON & METAL INC.
920 S. GRIMES • HOBBS, NM 88240
(505) 393-1726

CUSTOMER Diamond Fork
COMMODITY _____
CARRIER Dan To King
TRUCK # DA 7 TRAILER # T 77

INBOUND DATE 01-10-05 TIME 12:20PM
OUTBOUND DATE _____ TIME _____
63900 10 GROSS

DRIVER ON _____ OFF _____

SHIPPER _____

WEIGHMASTER Z. A. H.

NMDA APPROVED

LICENSE #003

**NON-HAZARDOUS
 WASTE MANIFEST**

1. Generator's US EPA ID No. *N/A* Manifest Doc. No. 2. Page 1 of

Generator's Name and Mailing Address
 Cannon Air Force Base, New Mexico
 Hwy 60/84
 CAFB, New Mexico
 Fire Training Area No. # 4

4. Generator's Phone (*505-301-4716*)
 5. Transporter 1 Company Name *Diamondback Disposal Services*
 6. US EPA ID Number *N/A*
 A. Transporter's Phone *505-392-9996*

7. Transporter 2 Company Name
 8. US EPA ID Number
 B. Transporter's Phone

9. Designated Facility Name and Site Address
 Facility DP-619
 8 miles south of Hobbs, on Hwy 18
 10. US EPA ID Number *N/A*
 C. Facility's Phone *505-392-9996*

11. Waste Shipping Name and Description	12. Containers		13. Total Quantity	14. Unit Wt/Vol
	No.	Type		
a. <i>Hydrocarbon Impacted Soils</i>	<i>1</i>	<i>Belly</i>	<i>17.29</i>	<i>ton</i>
b. <i>Backfill - No backfill on load -</i>	<i>1</i>	<i>Belly</i>	<i>20</i>	<i>cy</i>
c.				
d.				

D. Additional Descriptions for Materials Listed Above
Non Hazardous
 E. Handling Codes for Wastes Listed Above
N/A

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 *Sheila Newman* Signature *[Signature]* Month *4* Day *18* Year *05*

17. Transporter 1 Acknowledgement of Receipt of Materials
 Printed/Typed Name *Daniel Morgan* Signature *[Signature]* Month *4* Day *19* Year *05*

18. Transporter 2 Acknowledgement of Receipt of Materials
 Printed/Typed Name Signature Month Day Year

19. Discrepancy Indication Space
 #5 Address: *4007 Lovington Hwy. Hobbs, NM 88240*

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

Printed/Typed Name *Linsy Over* Signature *[Signature]* Month *4* Day *19* Year *05*

GENERATOR
TRANSPORTER
FACILITY

CABLE SERVICE CO. - Hobbs, N.M. Date 4-19-05 No 46641
CERTIFIED WEIGHMASTER # 060

Load of Continental Dork Tk. # DM3 Tr. # T-77

Driver - On Off Contractor Airbase Base
70350 Gross Customer Diamondback
Tare From Clavis
Weighmaster Jimmy Ray # 06030
Net Driver David M...

NMDA Approved

CABLE SERVICE CO. - Hobbs, N.M. Date 4-18-05 No 46611
CERTIFIED WEIGHMASTER # 060

Load of Tk. # DM3 Tr. #

Driver - On Off / Contractor Dave Truck
35760 Gross Customer Diamondback
Tare From Clavis
Weighmaster Jimmy Ray # 06030
Net Driver David M...

NMDA Approved

**NON-HAZARDOUS
WASTE MANIFEST**

1. Generator's US EPA ID No. *N/A* Manifest Doc. No. 2. Page 1 of

Generator's Name and Mailing Address
 Cannon Air Force Base, New Mexico
 Hwy 60/84
 CAFB, New Mexico
 Fire Training Area
 No. # 4

4. Generator's Phone () *505-301-4716*
 5. Transporter 1 Company Name *Diamondback Disposal Services*
 6. US EPA ID Number *N/A*
 A. Transporter's Phone *505-392-9996*

7. Transporter 2 Company Name
 8. US EPA ID Number
 B. Transporter's Phone

9. Designated Facility Name and Site Address
 Facility DP-619
 8 miles south of Hobbs, on Hwy 18
 Lea County
 10. US EPA ID Number *N/A*
 C. Facility's Phone *505-392-9996*

11. Waste Shipping Name and Description	12. Containers		13. Total Quantity	14. Unit Wt/Vol
	No.	Type		
a. Hydrocarbon Impacted Soils			<i>21.69</i>	<i>ton</i>
b. <i>clean fill</i>			<i>16.55</i>	<i>ton</i>
c.				
d.				

Additional Descriptions for Materials Listed Above
Non Hazardous
 E. Handling Codes for Wastes Listed Above
N/A

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 *Dennis R Timmons* Signature *[Signature]* Month *7* Day *18* Year *05*

17. Transporter 1 Acknowledgement of Receipt of Materials
 Printed/Typed Name *[Signature]* Signature *[Signature]* Month *7* Day *20* Year *05*

18. Transporter 2 Acknowledgement of Receipt of Materials
 Printed/Typed Name Signature Month Day Year

19. Discrepancy Indication Space
 #5 Address: *4007 Lovington Hwy. Hobbs, NM 88240*

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

Printed/Typed Name *Linsy Dyer* Signature *[Signature]* Month *4* Day *20* Year *05*

GENERATOR TRANSPORTER FACILITY

**NON-HAZARDOUS
WASTE MANIFEST**

1. Generator's US EPA ID No. *N/A* Manifest Doc. No. 2. Page 1 of

3. Generator's Name and Mailing Address
*Cannon Air Force Base, New Mexico
Hwy 60/84
CAFB, New Mexico* Fire Training Area No. # 4

4. Generator's Phone () *505-301-4716*

5. Transporter 1 Company Name *Diamondback Disposal Services* 6. US EPA ID Number *N/A* A. Transporter's Phone *505-392-9996*

7. Transporter 2 Company Name 8. US EPA ID Number B. Transporter's Phone

9. Designated Facility Name and Site Address *Facility DP-619
8 miles south of Hobbs, on Hwy 18
Lea County* 10. US EPA ID Number *N/A* C. Facility's Phone *505-392-9996*

11. Waste Shipping Name and Description 12. Containers No. Type 13. Total Quantity 14. Unit Wt/Vol

a. *Hydrocarbon impacted Soils* *21* *Belly* *20* *cy*

b. *clean fill* *116.52* *ton*

c.

d.

D. Additional Descriptions for Materials Listed Above *Non Hazardous* E. Handling Codes for Wastes Listed Above *N/A*

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 *Dennis R Timmons* Signature *[Signature]* Month Day Year *4 | 18 | 05*

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name *[Signature]* Signature *[Signature]* Month Day Year *4 | 20 | 05*

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name Signature Month Day Year

19. Discrepancy Indication Space
*#5 Address: 4007 Lovington Hwy.
Hobbs, NM 88240*

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]* Signature *[Signature]* Month Day Year *4 | 20 | 05*

GENERATOR
TRANSPORTER
FACILITY

CABLE SERVICE CO. - Hobbs, N.M. Date 4-20-05 No. 46647
CERTIFIED WEIGHMASTER # 060

Lead of D-11 Tr. # 196 Tr. # 1

Driver - On _____ Off Contractor Diamond Back

68840 Gross Customer Robert & Son

MARKED AS
Clean

To Clavis

Tare From Hobbs

Weighmaster Smith # 060-37

Net Driver Octavia Omba

NMDA Approved

No. 1844

HOBBS IRON & METAL INC.
920 S. GRIMES • HOBBS, NM 88240
(505) 393-1726

3034

CUSTOMER Diamond Back

COMMODITY Cont. Sol

CARRIER Robert & Son

TRUCK # 196 TRAILER # 1

INBOUND DATE APR-20-05 TIME 12:38PM

OUTBOUND DATE _____ TIME _____

79140 lb GROSS

DRIVER ON _____ OFF 1

SHIPPER _____

WEIGHMASTER Percher

NMDA APPROVED

LICENSE #003

CABLE SERVICE CO. - Hobbs, N.M.		Date <u>4/20/65</u>	No. <u>46650</u>
CERTIFIED WEIGHMASTER # 693			
Load of <u>Clean Sand</u>		Tk. # <u>2474</u>	Tr. # <u>GP 306</u>
Driver - On _____	Off <input checked="" type="checkbox"/>	Contractor <u>Diamond Back Trucking</u>	
67 190 Gross		Customer <u>Air Force Base</u>	
		To <u>Clavis N.M.</u>	
	Tare _____	From <u>Hobbs N.M.</u>	
		Weighmaster <u>Ernie Ray # 0607</u>	
	Net _____	Driver <u>W. H. [unclear]</u>	
NMDA Approved _____			

no manifest

**NON-HAZARDOUS
 WASTE MANIFEST**

1. Generator's US EPA ID No. *N/A* Manifest Doc. No. 2. Page 1 of

3. Generator's Name and Mailing Address
 Cannon Air Force Base, New Mexico
 Hwy 60/84
 Fire Training Area No.# 4
 4. Generator's Phone (505-301-4716 CAFB, NM

5. Transporter 1 Company Name
 Rhino Environmental Services, Inc. 6. US EPA ID Number
N/A A. Transporter's Phone 800-762-0241

7. Transporter 2 Company Name 8. US EPA ID Number
N/A B. Transporter's Phone

9. Designated Facility Name and Site Address
 Facility DP-619
 8 miles south of Hobbs, on Hwy 18
 Lea County 10. US EPA ID Number
N/A C. Facility's Phone
 505-392-9996

11. Waste Shipping Name and Description	12. Containers		13. Total Quantity	14. Unit Wt/Vol
	No.	Type		
a. Hydrocarbon Impacted Soils	1	Belly	22.26 20	ton cy
b. Clean Fill			19.31	ton
c.				
d.				

D. Additional Descriptions for Materials Listed Above
 Non Hazardous E. Handling Codes for Wastes Listed Above
 N/A

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 *Sheila Neuman* Signature *Sheila Neuman* Month Day Year
 1/18/05

17. Transporter 1 Acknowledgement of Receipt of Materials
 Printed/Typed Name *Wayne Hardy* Signature *Wayne Hardy* Month Day Year
 4/20/05

18. Transporter 2 Acknowledgement of Receipt of Materials
 Printed/Typed Name Signature Month Day Year

19. Discrepancy Indication Space
 #5 Address: PO Box 310
 Canutillo, TX 79835

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

Printed/Typed Name *Linsy Dyer* Signature *Linsy Dyer* Month Day Year
 4/20/05

GENERATOR TRANSPORTER FACILITY

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

NON-HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. N/A	Manifest Doc. No.	2. Page 1 of
3. Generator's Name and Mailing Address Cannon Air Force Base, New Mexico Hwy 60/84			Fire Training Area No # 4	
4. Generator's Phone (505-301-4716)		CAFB, NM		
5. Transporter 1 Company Name Rhino Environmental Services, Inc.	6. US EPA ID Number N/A	A. Transporter's Phone 800-762-0241		
7. Transporter 2 Company Name	8. US EPA ID Number	B. Transporter's Phone		
9. Designated Facility Name and Site Address Facility DP-619 8 miles south of Hobbs, on Hwy 18 Lea County	10. US EPA ID Number N/A	C. Facility's Phone 505-392-9996		
11. Waste Shipping Name and Description		12. Containers	13. Total Quantity	14. Unit Wt/Vol
a. Hydrocarbon Impacted Soils		No. 1	Type Belly 20	22.26 1000 cy
b. Clean Fill				19.31 1000
c.				
d.				
D. Additional Descriptions for Materials Listed Above Non Hazardous		E. Handling Codes for Wastes Listed Above N/A		
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 Sheik Neuman		Signature <i>Sheik Neuman</i>		Month Day Year 4 18 05
17. Transporter 1 Acknowledgement of Receipt of Materials Printed/Typed Name Wagner		Signature <i>Wagner</i>		Month Day Year 4 20 05
18. Transporter 2 Acknowledgement of Receipt of Materials Printed/Typed Name		Signature		Month Day Year
19. Discrepancy Indication Space #5 Address: PO Box 310 Carruttillo, TX 79835				
20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.				
Printed/Typed Name L. S. Dyer		Signature <i>L. S. Dyer</i>		Month Day Year 4 20 05

GENERATOR
TRANSPORTER
FACILITY

CABLE SERVICE CO. - Hobbs, N.M. Date 4/20/2005 No. 46671
 CERTIFIED WEIGHMASTER # 060
 Load of Clean Sand Tk. # 2448 Tr. # GP306
 Driver - On _____ Off
72 450 Gross Contractor Diamond Back
 Customer Air Force Base
 To Clouis N.M.
 From Hobbs N.M.
 Weighmaster Carrigan # 0601
 Driver W. [Signature]
 Tare _____
 Net _____
 NMDA Approved

CABLE SERVICE CO. - Hobbs, N.M. Date 4/20/2005 No. 46670
 CERTIFIED WEIGHMASTER # 060
 Load of CONTAMINATED DIRT Tk. # 2448 Tr. # GP306
 Driver - On _____ Off
78 350 Gross Contractor Diamond Back
 Customer Air Force Base
 To Hobbs N.M.
 From Clouis N.M.
 Weighmaster Carrigan # 0601
 Driver W. [Signature]
 Tare _____
 Net _____
 NMDA Approved

**NON-HAZARDOUS
WASTE MANIFEST**

1. Generator's US EPA ID No. **N/A** Manifest Doc. No. 2. Page 1 of

Generator's Name and Mailing Address
**Cannon Air Force Base, New Mexico
Hwy 60/84
CAFB, New Mexico**

Fire Training Area
No. # 4

4. Generator's Phone () **505-301-4716**

5. Transporter 1 Company Name **Diamondback Disposal Services** 6. US EPA ID Number **N/A** A. Transporter's Phone **505-392-9996**

7. Transporter 2 Company Name 8. US EPA ID Number B. Transporter's Phone

9. Designated Facility Name and Site Address **Facility DP-619
8 miles south of Hobbs, on Hwy 18
Lea County** 10. US EPA ID Number **N/A** C. Facility's Phone **505-392-9996**

11. Waste Shipping Name and Description	12. Containers		13. Total Quantity	14. Unit Wt/Vol
	No.	Type		
a. Hydrocarbon Impacted Soils			22.48	ton
b. clean fill			18.16	ton
c.				
d.				

D. Additional Descriptions for Materials Listed Above **Non Hazardous** E. Handling Codes for Wastes Listed Above **N/A**

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 **Dennis R Timmons** Signature *[Signature]* Month **4** Day **28** Year **05**

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name **Daniel Mangor** Signature *[Signature]* Month **4** Day **20** Year **05**

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name Signature Month Day Year

19. Discrepancy Indication Space
#5 Address: **4007 Lovington Hwy.
Hobbs, NM 88240**

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.
Printed/Typed Name **Linsley Dyer** Signature *[Signature]* Month **4** Day **20** Year **05**

GENERATOR

TRANSPORTER

FACILITY

Please print or type
(Form designed for use on blue (12 inch) typewriter)

NON-HAZARDOUS WASTE MANIFEST	1. Generator's US EPA ID No. N/A	Manifest Doc. No.	2. Page 1 of	
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3. Generator's Name and Mailing Address Cannon Air Force Base, New Mexico Hwy 60/84 CAFB, New Mexico	Fire Training Area No. # 4
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4. Generator's Phone () 505-301-4716	6. US EPA ID Number N/A	A. Transporter's Phone 505-392-9996
5. Transporter 1 Company Name Diamondback Disposal Services	7. Transporter 2 Company Name	B. Transporter's Phone
8. US EPA ID Number	9. Designated Facility Name and Site Address Facility DP-619 8 miles south of Hobbs, on Hwy 18 Lea County	C. Facility's Phone 505-392-9996
10. US EPA ID Number N/A		

11. Waste Shipping Name and Description	12. Containers		13. Total Quantity	14. Unit Wt/Vol
	No.	Type		
a. Hydrocarbon Impacted Soils			2248 Belly 20	ton cy
b. Clean F.C.C.			15.4	ton
c.				
d.				

D. Additional Descriptions for Materials Listed Above Non Hazardous	E. Handling Codes for Wastes Listed Above N/A
--	--

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 Dennis R. Trammell	Signature <i>[Signature]</i>	Month Day Year 4 15 05
--	---------------------------------	---------------------------

17. Transporter 1 Acknowledgement of Receipt of Materials Printed/Typed Name David Mangus	Signature <i>[Signature]</i>	Month Day Year 4 20 05
---	---------------------------------	---------------------------

18. Transporter 2 Acknowledgement of Receipt of Materials Printed/Typed Name	Signature	Month Day Year
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19. Discrepancy Indication Space

#5 Address: 4007 Lovington Hwy.
Hobbs, NM 88240

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

Printed/Typed Name Minsky Payer	Signature <i>[Signature]</i>	Month Day Year 4 20 05
------------------------------------	---------------------------------	---------------------------

CABLE SERVICE CO. - Hobbs, N.M.
CERTIFIED WEIGHMASTER # 060 Date 4-20-05 No. 46665

Load of Clean Sand Tk. # DM 3 Tr. # T 77

Driver - On Off
72 030 Gross Contractor Air Force Base

Tare Customer Diamondback Mesquite

From Hobbs

Weightmaster Enrique Rey # 060-1

Driver Samuel M...

NMDA Approved Net

CABLE SERVICE CO. - Hobbs, N.M.
CERTIFIED WEIGHMASTER # 060 Date 4-20-2005 No. 46668

Load of CONTAMINATED DIRT Tk. # DM 3 Tr. # T-77

Driver - On Off
80 720 Gross Contractor DIAMOND BACK

Tare Customer AIR FORCE BASE

From CLAVIS N.M.

Weightmaster Enrique Rey # 060-1

Driver Samuel M...

NMDA Approved Net

**NON-HAZARDOUS
WASTE MANIFEST**

1. Generator's US EPA ID No.
N/A

Manifest Doc. No. 2. Page 1 of

3. Generator's Name and Mailing Address

Cannon Air Force Base, New Mexico
Hwy 60/84
CAFB, New Mexico

Fire Training Area
No. # 4

4. Generator's Phone () 505-301-4716

5. Transporter 1 Company Name *Comerco Corp*
Diamondback Disposal Services

US EPA ID Number
N/A

A. Transporter's Phone
505-392-9996

7. Transporter 2 Company Name

8. US EPA ID Number

B. Transporter's Phone

9. Designated Facility Name and Site Address
Facility DP-619

8 miles south of Hobbs, on Hwy 18
Lea County

10. US EPA ID Number
N/A

C. Facility's Phone
505-392-9996

11. Waste Shipping Name and Description

12. Containers No. Type 13. Total Quantity 14. Unit Wt/Vol

a. Hydrocarbon Impacted Soils

1 20.26 TON
Belly 20

b. Clean Fill - NO clean fill 1st load -

~~1 Belly 15.97 TON~~

D. Additional Descriptions for Materials Listed Above

Non Hazardous

E. Handling Codes for Wastes Listed Above

N/A

15. Special Handling Instructions and Additional Information

TIWCK # 35

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
Dennis R Timmon

Signature

Month Day Year
9 18 05

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name
Ernesto Gomez

Signature

Month Day Year
4 20 05

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

19. Discrepancy Indication Space

#5 Address: 4007 Lovington Hwy.
Hobbs, NM 88240

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

Printed/Typed Name
Lynsey Over

Signature

Month Day Year
4 20 05

ORIGINAL - RETURN TO GENERATOR

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.

N/A

Manifest Doc. No.

2. Page 1 of

3. Generator's Name and Mailing Address

Cannon Air Force Base, New Mexico
Hwy 60/84
CAFB, New Mexico

Fire Training Area
No # 4

4. Generator's Phone () 505-301-4716

5. Transporter 1 Company Name
Diamondback Disposal Services

6. US EPA ID Number
N/A

A. Transporter's Phone
505-392-9996

7. Transporter 2 Company Name

8. US EPA ID Number

B. Transporter's Phone

9. Designated Facility Name and Site Address

Facility DP-619
8 miles south of Hobbs, on Hwy 18
Lea County

10. US EPA ID Number

N/A

C. Facility's Phone
505-392-9996

11. Waste Shipping Name and Description

a. Hydrocarbon Impacted Soils

12. Containers
No. Type

13. Total
Quantity

14. Unit
Wt/Vol

1	Belly	20	1000 cy
---	-------	----	------------

b. Clean FICO - NO clean fill 1st level -

1	15.97	1000	cy
--------------	------------------	-----------------	---------------

D. Additional Descriptions for Materials Listed Above

Non Hazardous

E. Handling Codes for Wastes Listed Above

N/A

15. Special Handling Instructions and Additional Information

7110K #1
35

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
Dennis R Timmon

Signature

Month Day Year
9 19 05

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name
Lynsey Dyer

Signature

Month Day Year
4 20 05

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

19. Discrepancy Indication Space

#5 Address: 4007 Lovington Hwy.
Hobbs, NM 88240

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

Printed/Typed Name
Lynsey Dyer

Signature

Month Day Year
4 20 05

TRANSPORTER #2

12-BLS-C5 REV 12/98

GENERATOR

TRANSPORTER

FACILITY

No. 12338

Date _____



Albin Smith
506 State Road 467
Clovis, NM 88101
(505) 683-5341

Customer's Name _____

Address _____

Commodity _____

Carrier _____

76280 lb Gross
Id# 12338 *IN*

Driver _____ On _____ Off _____

LBS NET @ _____ Per lb. Price _____

Shipper _____

Weigher _____

76280
35760

Net 40520

35 Contaminated

Please print or type
 (Form designed for use on one (1) page) (Type only)

**NON-HAZARDOUS
 WASTE MANIFEST**

1. Generator's US EPA ID No. **N/A.** Manifest Doc. No. **2. Page 1 of**

Generator's Name and Mailing Address
**Cannon Air Force Base, New Mexico
 Hwy 60/84
 CAFB, New Mexico** **Fire Training Area
 No.# 4**

4. Generator's Phone () **505-301-4716**
 5. Transporter 1 Company Name **BOMEX 'GOMEX** US EPA ID Number **N/A** A. Transporter's Phone **505-392-9996**
Diamondback Disposal Services

7. Transporter 2 Company Name 8. US EPA ID Number B. Transporter's Phone

9. Designated Facility Name and Site Address **Facility DP-619
 8 miles south of Hobbs, on Hwy 18
 Lea County** 10. US EPA ID Number **N/A** C. Facility's Phone **505-392-9996**

11. Waste Shipping Name and Description	12. Containers		13. Total Quantity	14. Unit Wt/Vol
	No.	Type		
a. Hydrocarbon Impacted Soils	1	Belly	24.68	ton
b. Clean Fill	1	Belly	15.97	
c.				
d.				

Additional Descriptions for Materials Listed Above **Non Hazardous** E. Handling Codes for Wastes Listed Above **N/A**

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 **Dennis R Timmons** Signature *[Signature]* Month **4** Day **18** Year **05**

17. Transporter 1 Acknowledgement of Receipt of Materials
 Printed/Typed Name **Enrique Gomez** Signature *[Signature]* Month **4** Day **20** Year **05**

18. Transporter 2 Acknowledgement of Receipt of Materials
 Printed/Typed Name Signature Month Day Year

19. Discrepancy Indication Space
 #5 Address: **4007 Lovington Hwy.
 Hobbs, NM 88240**

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

Printed/Typed Name **Linsley Dyer** Signature *[Signature]* Month **4** Day **20** Year **05**

GENERATOR TRANSPORTER FACILITY

NON-HAZARDOUS WASTE MANIFEST	1. Generator's US EPA ID No. N/A	Manifest Doc. No.	2. Page 1 of	
-------------------------------------	-------------------------------------	-------------------	--------------	--

3. Generator's Name and Mailing Address Cannon Air Force Base, New Mexico Hwy 60/84 CAFB, New Mexico	Fire Training Area No.# 4
---	------------------------------

4. Generator's Phone () 505-301-4716	US EPA ID Number N/A	A. Transporter's Phone 505-392-9996
---------------------------------------	-------------------------	--

5. Transporter 1 Company Name Diamondback Disposal Services	8. US EPA ID Number	B. Transporter's Phone
--	---------------------	------------------------

7. Transporter 2 Company Name	10. US EPA ID Number N/A	C. Facility's Phone 505-392-9996
-------------------------------	-----------------------------	-------------------------------------

9. Designated Facility Name and Site Address Facility DP-619 8 miles south of Hobbs, on Hwy 18 Lea County	C. Facility's Phone 505-392-9996
--	-------------------------------------

11. Waste Shipping Name and Description	12. Containers		13. Total Quantity	14. Unit Wt/Vol
	No.	Type		
a. Hydrocarbon Impacted Soils	1	Belly	24 20	100 cy
b. Clean Fill				
c.				
d.				

D. Additional Descriptions for Materials Listed Above Non Hazardous	E. Handling Codes for Wastes Listed Above N/A
--	--

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 Dennis D Timmons	Signature <i>[Signature]</i>	Month Day Year 14 18 05
--	---------------------------------	--------------------------------

17. Transporter 1 Acknowledgement of Receipt of Materials		
Printed/Typed Name Ernyue Gong	Signature <i>[Signature]</i>	Month Day Year 14 20 05

18. Transporter 2 Acknowledgement of Receipt of Materials		
Printed/Typed Name	Signature	Month Day Year

19. Discrepancy Indication Space
 #5 Address: 4007 Lovington Hwy.
 Hobbs, NM 88240

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

Printed/Typed Name LINSLEY DYER	Signature <i>[Signature]</i>	Month Day Year 14 20 05
------------------------------------	---------------------------------	--------------------------------

GENERATOR
TRANSPORTER
FACILITY

No. 12339



Albin Smith
506 State Road 467
Clovis, NM 88101
(505) 683-5341

Date 4-20-05

Customer's Name Frank - Clean fill

Address _____

Commodity _____

Carrier _____

Driver Gonzalez On _____ Off _____

LBS NET @ _____ Per lb. Price _____

Shipper _____

Weigher _____

77600
35760

31940

TRUCK
71 35

Form #SASD001

Date _____

TRUCK ~ 75

Hobbs Iron and Metal, Inc.

920 S. Grimes
Hobbs, NM 88240
(505) 393-1726

Gross 49360 F

Tare 33380 R

Net _____

Customer 82740

Load of _____

On _____ Off _____

Cont. Sold

46,980

Please print or type
(Form designed for use on one (12-inch) typewriter)

**NON-HAZARDOUS
WASTE MANIFEST**

1. Generator's US EPA ID No. *N/A* Manifest Doc. No. 2. Page 1 of

Generator's Name and Mailing Address
 Cannon Air Force Base, New Mexico
 Hwy 60/84
 CAFB, New Mexico
 Fire Training Area
 No. # 4

4. Generator's Phone () 505-301-4716

5. Transporter 1 Company Name
 Diamondback Disposal Services
 6. US EPA ID Number *N/A*
 A. Transporter's Phone 505-392-9996

7. Transporter 2 Company Name
 8. US EPA ID Number
 B. Transporter's Phone

9. Designated Facility Name and Site Address
 Facility DP-619
 8 miles south of Hobbs, on Hwy 18
 Lea County
 10. US EPA ID Number *N/A*
 C. Facility's Phone 505-392-9996

11. Waste Shipping Name and Description
 12. Containers No. Type
 13. Total Quantity
 14. Unit Wt/Vol

a. Hydrocarbon Impacted Soils
 21.81 ~~Bally 20~~ ton cy

b. *Clean Fill*
 16.84 ton

c.

d.

Additional Descriptions for Materials Listed Above
 Non Hazardous
 E. Handling Codes for Wastes Listed Above
 N/A

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 *Denise R Timmons* Signature *[Signature]* Month Day Year *4 19 05*

17. Transporter 1 Acknowledgement of Receipt of Materials
 Printed/Typed Name *Raul Alvarado* Signature *Raul Alvarado* Month Day Year *4 20 05*

18. Transporter 2 Acknowledgement of Receipt of Materials
 Printed/Typed Name Signature Month Day Year

19. Discrepancy Indication Space
 #5 Address: 4007 Lovington Hwy.
 Hobbs, NM 88240

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

Printed/Typed Name *LINSEY OVER* Signature *[Signature]* Month Day Year *4 20 05*

GENERATOR
TRANSPORTER
FACILITY

**NON-HAZARDOUS
 WASTE MANIFEST**

1. Generator's US EPA ID No. *N/A* Manifest Doc. No. *.....* 2. Page 1 of *.....*

3. Generator's Name and Mailing Address
*Cannon Air Force Base, New Mexico
 Hwy 60/84
 CAFB, New Mexico* Fire Training Area No. # *4*

4. Generator's Phone () *505-301-4716*
 5. Transporter 1 Company Name *Diamondback Disposal Services* 6. US EPA ID Number *N/A* A. Transporter's Phone *505-392-9996*

7. Transporter 2 Company Name *.....* 8. US EPA ID Number *.....* B. Transporter's Phone *.....*

9. Designated Facility Name and Site Address
*Facility DP-619
 8 miles south of Hobbs, on Hwy 18
 Lea County* 10. US EPA ID Number *N/A* C. Facility's Phone *505-392-9996*

11. Waste Shipping Name and Description	12. Containers		13. Total Quantity	14. Unit Wt/Vol
	No.	Type		
a. <i>Hydrocarbon Impacted Soils</i>	<i>21</i>	<i>Belly</i>	<i>20</i>	<i>cy</i>
b. <i>Clean Fill</i>	<i>.....</i>	<i>.....</i>	<i>.....</i>	<i>.....</i>
c. <i>.....</i>	<i>.....</i>	<i>.....</i>	<i>.....</i>	<i>.....</i>
d. <i>.....</i>	<i>.....</i>	<i>.....</i>	<i>.....</i>	<i>.....</i>

D. Additional Descriptions for Materials Listed Above
Non Hazardous E. Handling Codes for Wastes Listed Above
N/A

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 *Dennis R. Trammie* Signature *[Signature]* Month *9* Day *16* Year *05*

17. Transporter 1 Acknowledgement of Receipt of Materials
 Printed/Typed Name *Raul Alvarado* Signature *[Signature]* Month *.....* Day *.....* Year *.....*

18. Transporter 2 Acknowledgement of Receipt of Materials
 Printed/Typed Name *.....* Signature *.....* Month *.....* Day *.....* Year *.....*

19. Discrepancy Indication Space
 #5 Address: *4007 Lovington Hwy.
 Hobbs, NM 88240*

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

Printed/Typed Name *LINSEY DYER* Signature *[Signature]* Month *.....* Day *.....* Year *.....*

GENERATOR
TRANSPORTER
FACILITY

-Raw

NO 1843

HOBBS IRON & METAL INC.
920 S. GRIMES • HOBBS, NM 88240
(505) 393-1726

003

CUSTOMER Diamond Back
COMMODITY _____
CARRIER _____
TRUCK # 501 TRAILER # 1

INBOUND DATE APR-20-05 TIME 13:30PM
OUTBOUND DATE _____ TIME _____
74660 lb GROSS

DRIVER ON _____ OFF 1

SHIPPER _____
WEIGHMASTER Rucker

NMDA APPROVED LICENSE #003

CABLE SERVICE CO. - Hobbs, N.M.		Date: <u>4-20-05</u>	No: <u>46664</u>
CERTIFIED WEIGHMASTER #060			
Load of: <u>Clean sand</u>		Tk. # <u>501</u>	Tr. # <u>1</u>
Driver: <u>62940</u>	Off: <input checked="" type="checkbox"/>	Contractor: <u>Mifore Base</u>	
Gross		Customer: <u>Diamond Back Disposal</u>	
Tare		To: <u>clays</u>	
Net		From: <u>Hobbs</u>	
		Weighmaster: <u>Ernie King 060-1</u>	
		Driver: <u>Paul Chonick</u>	
NMDA Approved			

**NON-HAZARDOUS
WASTE MANIFEST**

1. Generator's US EPA ID No. *N/A* Manifest Doc. No. 2. Page 1 of

Generator's Name and Mailing Address
 Cannon Air Force Base, New Mexico
 Hwy 60/84
 CAFB, New Mexico
 Fire Training Area
 No.# 4

4. Generator's Phone () 505-301-4716
 5. Transporter 1 Company Name: *Diamondback Disposal Services*
 6. US EPA ID Number: *N/A*
 A. Transporter's Phone: *505-392-9996*
 7. Transporter 2 Company Name
 8. US EPA ID Number
 B. Transporter's Phone
 9. Designated Facility Name and Site Address:
Facility DP-619
8 miles south of Hobbs, on Hwy 18
Lea County
 10. US EPA ID Number: *N/A*
 C. Facility's Phone: *505-392-9996*

11. Waste Shipping Name and Description	12. Containers		13. Total Quantity	14. Unit W/Vol
	No.	Type		
a. <i>Hydrocarbon Impacted Soils</i>			<i>19.72</i> <i>Belly 20</i>	<i>ton</i> <i>cy</i>
b. <i>clean fill</i>	<i>1</i>	<i>Belly</i>	<i>18.80</i>	<i>ton</i>
c.				
d.				

D. Additional Descriptions for Materials Listed Above: *Non Hazardous*
 E. Handling Codes for Wastes Listed Above: *N/A*

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: *Dennis R Timmins* Signature: *[Signature]* Month: *9* Day: *13* Year: *05*

17. Transporter 1 Acknowledgement of Receipt of Materials
 Printed/Typed Name: *Raul Alvarado* Signature: *Raul Alvarado* Month: *4* Day: *20* Year: *05*

18. Transporter 2 Acknowledgement of Receipt of Materials
 Printed/Typed Name: Signature: Month: Day: Year:

19. Discrepancy Indication Space
 #5 Address: *4007 Lovington Hwy. Hobbs, NM 88240*

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

Printed/Typed Name: *Linsy Dyer* Signature: *[Signature]* Month: *4* Day: *20* Year: *05*

GENERATOR
TRANSPORTER
FACILITY

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. *N/A* Manifest Doc. No. 2. Page 1 of

3. Generator's Name and Mailing Address
Cannon Air Force Base, New Mexico
Hwy 60/84
CAFB, New Mexico
Fire Training Area No. # 4

4. Generator's Phone () **505-301-4716**
 5. Transporter 1 Company Name **Diamondback Disposal Services**
 6. US EPA ID Number *N/A*
 A. Transporter's Phone **505-392-9996**

7. Transporter 2 Company Name
 8. US EPA ID Number
 B. Transporter's Phone

9. Designated Facility Name and Site Address
Facility DP-619
8 miles south of Hobbs, on Hwy 18
Lea County
 10. US EPA ID Number *N/A*
 C. Facility's Phone **505-392-9996**

11. Waste Shipping Name and Description	12. Containers		13. Total Quantity	14. Unit W/Vol
	No.	Type		
a. Hydrocarbon Impacted Soils			<i>19.72</i> <i>Belly 20</i>	<i>ton</i> <i>cy.</i>
b. <i>clean fill</i>	<i>1</i>	<i>Belly</i>	<i>18.80</i>	<i>ton</i>
c.				
d.				

D. Additional Descriptions for Materials Listed Above
Non Hazardous
 E. Handling Codes for Wastes Listed Above
N/A

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 *Dennis R. Timmer* Signature *[Signature]* Month Day Year *9 | 13 | 05*

17. Transporter 1 Acknowledgement of Receipt of Materials
 Printed/Typed Name *Raul Alvarado* Signature *Raul Alvarado* Month Day Year *4 | 20 | 05*

18. Transporter 2 Acknowledgement of Receipt of Materials
 Printed/Typed Name Signature Month Day Year

19. Discrepancy Indication Space

#5 Address: **4007 Lovington Hwy.**
Hobbs, NM 88240

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

Printed/Typed Name *Luisa Dyck* Signature *[Signature]* Month Day Year *4 | 20 | 05*

GENERATOR TRANSPORTER FACILITY

No. 12340

Date 4-20-05



Albin Smith
506 State Road 467
Clovis, NM 88101
(505) 683-5341

Customer's Name _____

Address _____

Commodity (cont. case)

Carrier _____

70700 lb Gross
Id# 12340 *IN*

Driver [signature] On _____ Off _____

LBS NET @ _____ Per lb. Price _____

Shipper _____

Weigher _____

Form #SASD001

No. 12337

Date _____



Albin Smith
506 State Road 467
Clovis, NM 88101
(505) 683-5341

Customer's Name _____

Address _____

Commodity _____

Carrier _____

68860 lb Gross
Id# 12337 *IN*

Driver _____ On _____ Off _____

LBS NET @ _____ Per lb. Price _____

Shipper _____

Weigher _____

Form #SASD001

**NON-HAZARDOUS
WASTE MANIFEST**

1. Generator's US EPA ID No. N/A Manifest Doc. No. _____ 2. Page 1 of _____

Generator's Name and Mailing Address

Cannon Air Force Base, New Mexico
Hwy 60/84
CAFB, New Mexico

Fire Training Area
No. # 4

4. Generator's Phone () 505-301-4716

6. US EPA ID Number

A. Transporter's Phone

Diamondback Disposal Services

N/A

505-392-9996

7. Transporter 2 Company Name

8. US EPA ID Number

B. Transporter's Phone

9. Designated Facility Name and Site Address

10. US EPA ID Number

C. Facility's Phone

Facility DP-619
8 miles south of Hobbs, on Hwy 18
Lea County

N/A

505-392-9996

11. Waste Shipping Name and Description

12. Containers

13. Total Quantity

14. Unit Wt/Vol

a. Hydrocarbon Impacted Soils (23.73 tons)

No. Type

Quantity

Unit Wt/Vol

23.73

19.93

bm

20

cy

b. clean fill (19.93 tons)

1

19.93

bm

20

cy

c.
d.

Additional Descriptions for Materials Listed Above

E. Handling Codes for Wastes Listed Above

Non Hazardous

N/A

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

Dennis R Timmons

[Signature]

6/18/05

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

[Signature]

4/20/05

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

19. Discrepancy Indication Space

#5 Address: 4007 Lovington Hwy.
Hobbs, NM 88240

- mix up on weight tickets
correct volumes recorded.

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

Linsy Dyer

[Signature]

4/20/05

GENERATOR

TRANSPORTER

FACILITY

BY

**NON-HAZARDOUS
WASTE MANIFEST**

1. Generator's US EPA ID No.
N/A

Manifest Doc. No.

2. Page 1
of

3. Generator's Name and Mailing Address

Cannon Air Force Base, New Mexico
Hwy 60/84
CAFB, New Mexico

Fire Training Area
No. # 4

4. Generator's Phone ()

505-301-4716

5. Transporter 1 Company Name

Diamondback Disposal Services

6. US EPA ID Number

N/A

A. Transporter's Phone

505-392-9996

7. Transporter 2 Company Name

8. US EPA ID Number

B. Transporter's Phone

9. Designated Facility Name and Site Address

Facility DP-619
8 miles south of Hobbs, on Hwy 18
Lea County

10. US EPA ID Number

N/A

C. Facility's Phone

505-392-9996

11. Waste Shipping Name and Description

12. Containers

No.

Type

13. Total
Quantity

14. Unit
Wt/Vol

a.

Hydrocarbon Impacted Soils (23.1 lbs)

23

Belly

20

cy

b.

Lead Fill (19.9 lbs)

1

Belly

19.9

lbs

c.

d.

D. Additional Descriptions for Materials Listed Above

Non Hazardous

E. Handling Codes for Wastes Listed Above

N/A

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

Desiree R. Tommon

Signature

[Signature]

Month Day Year

4 13 05

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name

Octavia Comela

Signature

[Signature]

Month Day Year

4 20 05

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

19. Discrepancy Indication Space

#5 Address:

4007 Lovington Hwy.
Hobbs, NM 88240

Make up correct bucket
correct volume of material

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

Printed/Typed Name

Lindsay Dyer

Signature

[Signature]

Month Day Year

4 20 05

GENERATOR

TRANSPORTER

FACILITY

NE 1850

HOBBS IRON & METAL INC.
920 S. GRIMES • HOBBS, NM 88240
(505) 393-1726

CUSTOMER Robert & Son Trucking
COMMODITY Diamondback
CARRIER Sand
TRUCK # _____ TRAILER # _____

INBOUND 75600 lb
LOOP TO 866

INBOUND DATE APR-20-05 TIME 1:39PM
OUTBOUND DATE _____ TIME • _____

DRIVER ON _____ OFF _____

SHIPPER _____

WEIGHMASTER [Signature]

NMDA APPROVED

LICENSE #003

DRIVER ON Oil ✓
83520 Gross
NMDA Approved _____ Net
Tare _____
Contractor Diamondback
Customer Air Force Base
To Hobbs NM
From Plevin's NM
Weighmaster Calvin Ray #160-1
Driver Steve [Signature]
CERTIFIED WEIGHMASTER # 060
Date 4-21-2005 No. 46684
Load of Le Mans 103 TR # 196 TR # 103

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. N/A

Manifest Doc. No.

2. Page 1 of

Generator's Name and Mailing Address

Cannon Air Force Base, New Mexico
Hwy 60/84
CAFB, New Mexico

Fire Training Area
No. # 4

4. Generator's Phone () 505-301-4716

5. Transporter 1 Company Name
Diamondback Disposal Services

6. US EPA ID Number N/A

A. Transporter's Phone
505-392-9996

7. Transporter 2 Company Name

8. US EPA ID Number

B. Transporter's Phone

9. Designated Facility Name and Site Address

Facility DP-619
8 miles south of Hobbs, on Hwy 18
Lea County

10. US EPA ID Number N/A

C. Facility's Phone
505-392-9996

11. Waste Shipping Name and Description

12. Containers
No. Type

13. Total
Quantity

14. Unit
Wt/Vol

a. Hydrocarbon Impacted Soils

22.46 ton
Belly 20 cy

b. Clean Fuel

19.28 ton

c.

d.

16. Additional Descriptions for Materials Listed Above

Non Hazardous

E. Handling Codes for Wastes Listed Above

N/A

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
Dennis R Timmons

Signature

Month Day Year
4/18/05

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name
Raul Aivarado

Signature

Month Day Year
7/21/05

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

19. Discrepancy Indication Space

#5 Address: 4007 Lovington Hwy.
Hobbs, NM 88240

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

Printed/Typed Name
Linsy Dyer

Signature

Month Day Year
4/21/05

ORIGINAL - RETURN TO GENERATOR

**NON-HAZARDOUS
WASTE MANIFEST**

1. Generator's US EPA ID No. *N/A* Manifest Doc. No. *.....* 2. Page 1 of *.....*

3. Generator's Name and Mailing Address *Cannon Air Force Base, New Mexico* Fire Training Area No. # *4*

4. Generator's Phone () *505-301-4716* *CAFB, New Mexico*

5. Transporter 1 Company Name *Diamondback Disposal Services* 6. US EPA ID Number *N/A* A. Transporter's Phone *505-392-9996*

7. Transporter 2 Company Name *.....* 8. US EPA ID Number *.....* B. Transporter's Phone *.....*

9. Designated Facility Name and Site Address *Facility DP-619* 10. US EPA ID Number *N/A* C. Facility's Phone *505-392-9996*

8 miles south of Hobbs, on Hwy 18

Lea County

11. Waste Shipping Name and Description *Hydrocarbon Impacted Soils*

12. Containers No. Type 13. Total Quantity 14. Unit Wt/Vol

a. *.....* *.....* *2290* *cy*

b. *clean FCC* *.....* *11.25* *ton*

c. *.....* *.....* *.....* *.....*

d. *.....* *.....* *.....* *.....*

D. Additional Descriptions for Materials Listed Above *Non Hazardous*

E. Handling Codes for Wastes Listed Above *N/A*

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 *Dennis R Timmons* Signature *[Signature]* Month *4* Day *16* Year *05*

17. Transporter 1 Acknowledgement of Receipt of Materials Printed/Typed Name *Raul Alvarado* Signature *[Signature]* Month *4* Day *21* Year *05*

18. Transporter 2 Acknowledgement of Receipt of Materials Printed/Typed Name *.....* Signature *.....* Month *.....* Day *.....* Year *.....*

19. Discrepancy Indication Space *#5 Address: 4007 Lovington Hwy. Hobbs, NM 88240*

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]* Signature *[Signature]* Month *4* Day *21* Year *05*

GENERATOR

TRANSPORTER

FACILITY

No. 12342

Date 4-21-05



Albin Smith
506 State Road 467
Clovis, NM 88101
(505) 683-5341

Customer's Name Rhino

Address _____

Commodity Cont. Sand

Carrier _____

76180 lb Gross
Id# 12342 *IN*

Driver Raul On _____ Off _____

LBS NET @ _____ Per lb. Price _____

Shipper _____

Weigher _____

Form #SASD001

CABLE SERVICE CO. - Hobbs, N.M. Date 4-21-2005 No. 46689
 CERTIFIED WEIGHMASTER # MS
 Load of Clean Sand Tk. # 501 Tr. # 1
 Driver - On _____ Off Gross 69 830
 Contractor DIAMOND BACK
 Customer Air Force Base
 To Clovis N.M.
 From Hobbs N.M.
 Weighmaster Enrique Lopez
 Driver Raul Ahondo
 Tare _____ Net _____
 WMDA Approved

Please print or type form designed for (each) type of use

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. N/A Manifest Doc. No. 2. Page 1 of

Generator's Name and Mailing Address

Cannon Air Force Base, New Mexico
Hwy 60/84
CAFB, NM

Fire Training Area
No.# 4

4. Generator's Phone (505-301-4716) A. Transporter's Phone 800-762-0241

5. Transporter 1 Company Name Rhino Environmental Services, Inc. 6. US EPA ID Number N/A B. Transporter's Phone

7. Transporter 2 Company Name 8. US EPA ID Number C. Facility's Phone

9. Designated Facility Name and Site Address Facility DP-619
8 miles south of Hobbs, on Hwy 18
Lea County 10. US EPA ID Number N/A C. Facility's Phone 505-392-9996

11. Waste Shipping Name and Description 12. Containers No. 13. Total Quantity 14. Unit Wt/Vol

a. Hydrocarbon Impacted Soils 1 25.56 TON
Belly 20 cy

b.

c.

d.

Additional Descriptions for Materials Listed Above

Non Hazardous

E. Handling Codes for Wastes Listed Above

N/A

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 Sheila Neuman Signature [Signature] Month 1 Day 8 Year 05

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name Gustavo Espinoza Signature [Signature] Month 04 Day 21 Year 05

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name Signature Month Day Year

19. Discrepancy Indication Space

#5 Address: PO Box 310
Canutillo, TX 79835

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

Printed/Typed Name Linsley Dyer Signature [Signature] Month 14 Day 21 Year 05

GENERATOR
TRANSPORTER
FACILITY

**NON-HAZARDOUS
WASTE MANIFEST**

1. Generator's US EPA ID No.
N/A

Manifest Doc. No.

2. Page 1
of

3. Generator's Name and Mailing Address

Cannon Air Force Base, New Mexico
Hwy 60/84
CAFB, NM

Fire Training Area
No.# 4

4. Generator's Phone (

505-301-4716

CAFB, NM

5. Transporter 1 Company Name

Rhino Environmental Services, Inc.

6. US EPA ID Number

N/A

A. Transporter's Phone

800-762-0241

7. Transporter 2 Company Name

8. US EPA ID Number

B. Transporter's Phone

9. Designated Facility Name and Site Address

Facility DP-619
8 miles south of Hobbs, on Hwy 18
Lea County

10. US EPA ID Number

N/A

C. Facility's Phone

505-392-9996

11. Waste Shipping Name and Description

a. Hydrocarbon Impacted Soils

12. Containers
No. Type

13. Total
Quantity

14. Unit
W/Vol

1 20
Belly cy

b.

c.

d.

D. Additional Descriptions for Materials Listed Above

Non Hazardous

E. Handling Codes for Wastes Listed Above

N/A

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

Sheila Neuman

Signature

Month Day Year

11 18 05

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name

[Signature]

Signature

Month Day Year

11 21 05

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name

[Signature]

Signature

Month Day Year

[Blank]

19. Discrepancy Indication Space

#5 Address: PO Box 310
Canutillo, TX 79835

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

Printed/Typed Name

LINSEY DYER

Signature

Month Day Year

11 21 05

GENERATOR

TRANSPORTER

FACILITY

No. 12343

Date 4/21/05



Albin Smith
506 State Road 467
Clovis, NM 88101
(505) 683-5341

525
Dirty

Customer's Name _____
Address _____
Commodity _____
Carrier _____

84960 lb Gross
Id# 12343 #1#

Gross

4:20pm

Driver _____ On _____ Off _____

LBS NET @ _____ Per lb. Price _____

Shipper _____

Weigher _____

~~XXXXXXXX~~

**NON-HAZARDOUS
WASTE MANIFEST**

1. Generator's US EPA ID No.
N/A

Manifest Doc. No.

2. Page 1
of

Generator's Name and Mailing Address

Cannon Air Force Base, New Mexico
Hwy 60/84
CAFB, NM

Fire Training Area
No.# 4

4. Generator's Phone (505-301-4716

5. Transporter 1 Company Name
Rhino Environmental Services, Inc.

6. US EPA ID Number
N/A

A. Transporter's Phone
800-762-0241

7. Transporter 2 Company Name

8. US EPA ID Number

B. Transporter's Phone

9. Designated Facility Name and Site Address
Facility DP-619
8 miles south of Hobbs, on Hwy 18
Lea County

10. US EPA ID Number
N/A

C. Facility's Phone
505-392-9996

11. Waste Shipping Name and Description

12. Containers
No. Type

13. Total
Quantity

14. Unit
W/Vol

a. Hydrocarbon Impacted Soils

1 21 Belly 20 ton cy

b. 22.98 ton

c.

d.

Additional Descriptions for Materials Listed Above

Non Hazardous

E. Handling Codes for Wastes Listed Above

N/A

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
Sheela Newman

Signature
Sheela Newman

Month Day Year
11/8/05

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name
Gustavo Espanza

Signature
Gustavo Espanza

Month Day Year
08/12/05

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

19. Discrepancy Indication Space

#5 Address: PO Box 310
Canutillo, TX 79835

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

Printed/Typed Name
Linsy Orr

Signature
Linsy Orr

Month Day Year
11/21/05

GENERATOR

TRANSPORTER

FACILITY

ORIGINAL - RETURN TO GENERATOR

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.
N/A

Manifest Doc. No.

2. Page 1 of

3. Generator's Name and Mailing Address

Cannon Air Force Base, New Mexico
Hwy 60/84

Fire Training Area
No.# 4

4. Generator's Phone (

505-301-4716

CAFB, NM

5. Transporter 1 Company Name

Rhino Environmental Services, Inc.

6. US EPA ID Number

N/A

A. Transporter's Phone

800-762-0241

7. Transporter 2 Company Name

8. US EPA ID Number

B. Transporter's Phone

9. Designated Facility Name and Site Address

Facility DP-619
8 miles south of Hobbs, on Hwy 18
Lea County

10. US EPA ID Number

N/A

C. Facility's Phone

505-392-9996

11. Waste Shipping Name and Description

a. Hydrocarbon Impacted Soils

12. Containers

No.

Type

13. Total Quantity

14. Unit W/Vol

1

Belly

20

cy

b.

c.

d.

D. Additional Descriptions for Materials Listed Above

Non Hazardous

E. Handling Codes for Wastes Listed Above

N/A

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
Shera Newman

Signature
Shera Newman

Month Day Year
4/18/05

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name
Gustavo Espinoza

Signature
Gustavo Espinoza

Month Day Year
04/17/05

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

19. Discrepancy Indication Space

#5 Address: PO Box 310
Canutillo, TX 79835

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

Printed/Typed Name
LINDA DAVIS

Signature
Linda Davis

Month Day Year
4/17/05

TRANSPORTER #2

GENERATOR

TRANSPORTER #1

FACILITY

No. 12353

Date _____



Albin Smith
506 State Road 467
Clovis, NM 88101
(505) 683-5341

Customer's Name _____

Address _____

Commodity _____

Carrier _____

Driver _____ On _____ Off _____

LBS NET @ _____ Per lb. Price _____

Shipper _____

Weigher _____

Form #SASD001

79800 lb Gross
Id# 12353 *IN*

b Gross
IN

No. 12348

Date 4/21/05



Albin Smith
506 State Road 467
Clovis, NM 88101
(505) 683-5341

525
Clead

Customer's Name _____

Address _____

Commodity _____

Carrier _____

Driver _____ On _____ Off _____

LBS NET @ _____ Per lb. Price _____

Shipper _____

Weigher _____

Form #SASD001

75840 lb Gross
Id# 12348 *IN*

3 lb Gross
IN

on site 4/20/05

~~Johnny #525~~
~~Form #23840~~

**NON-HAZARDOUS
 WASTE MANIFEST**

1. Generator's US EPA ID No. N/A Manifest Doc. No. _____ 2. Page 1 of _____

Generator's Name and Mailing Address
Cannon Air Force Base, New Mexico
 Hwy 60/84
 CAFB, New Mexico Fire Training Area No.# 4

4. Generator's Phone () 505-301-4716 6. US EPA ID Number N/A A. Transporter's Phone 505-392-9996
 5. Transporter 1 Company Name Diamondback Disposal Services

7. Transporter 2 Company Name _____ 8. US EPA ID Number _____ B. Transporter's Phone _____

9. Designated Facility Name and Site Address Facility DP-619
 8 miles south of Hobbs, on Hwy 18
 Lea County 10. US EPA ID Number N/A C. Facility's Phone 505-392-9996

11. Waste Shipping Name and Description	12. Containers		13. Total Quantity	14. Unit W/Vol
	No.	Type		
a. <u>Hydrocarbon Impacted Soils</u>			<u>21.02</u> <u>ton</u>	<u>Belly</u> <u>20</u> <u>ey</u>
b. <u>clean Fill</u>		<u>1 Belly</u>	<u>18.00</u> <u>ton</u>	
c. _____				
d. _____				

14. Additional Descriptions for Materials Listed Above Non Hazardous E. Handling Codes for Wastes Listed Above N/A

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 Dennis R Timmer Signature [Signature] Month 3 Day 18 Year 05

17. Transporter 1 Acknowledgement of Receipt of Materials
 Printed/Typed Name Raul Alvarado Signature Raul Alvarado Month 4 Day 21 Year 05

18. Transporter 2 Acknowledgement of Receipt of Materials
 Printed/Typed Name _____ Signature _____ Month _____ Day _____ Year _____

19. Discrepancy Indication Space
 #5 Address: 4007 Lovington Hwy.
 Hobbs, NM 88240

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

Printed/Typed Name Linsy Dyer Signature [Signature] Month 4 Day 21 Year 05

GENERATOR
TRANSPORTER
FACILITY

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

**NON-HAZARDOUS
WASTE MANIFEST**

1. Generator's US EPA ID No.
N/A

Manifest Doc. No.

2. Page 1
of

3. Generator's Name and Mailing Address

Cannon Air Force Base, New Mexico
Hwy 60/84
CAFB, New Mexico

Fire Training Area
No # 4

4. Generator's Phone () 505-301-4716

5. Transporter 1 Company Name

Diamondback Disposal Services

6. US EPA ID Number

N/A

A. Transporter's Phone

505-392-9996

7. Transporter 2 Company Name

8. US EPA ID Number

B. Transporter's Phone

9. Designated Facility Name and Site Address

Facility DP-619
8 miles south of Hobbs, on Hwy 18
Lea County

10. US EPA ID Number

N/A

C. Facility's Phone

505-392-9996

11. Waste Shipping Name and Description

a. Hydrocarbon Impacted Soils

b. Clean Fill

c.

d.

12. Containers

No. Type

13. Total
Quantity

14. Unit
Wt/Vol

Belly 20 lb/cy

1. 511 1.500 lb

D. Additional Descriptions for Materials Listed Above

Non Hazardous

E. Handling Codes for Wastes Listed Above

N/A

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

Debbie R. Timmer

Signature

[Signature]

Month Day Year

4 18 05

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name

Raul Alvarez

Signature

[Signature]

Month Day Year

4 21 05

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

19. Discrepancy Indication Space

#5 Address: 4007 Lovington Hwy.
Hobbs, NM 88240

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

4 21 05

GENERATOR

TRANSPORTER

FACILITY

No. 12347



Albin Smith
506 State Road 467
Clovis, NM 88101
(505) 683-5341

Date 4-21-05

Customer's Name _____

Address _____

Commodity CLEAN FILL

Carrier _____

67280 lb Gross
Id# 12347 *IN*

Driver Paul [unclear] On _____ Off _____

LBS NET @ _____ Per lb. Price _____

Shipper _____

Weigher _____

Form #SASD001

No. 12352



Albin Smith
506 State Road 467
Clovis, NM 88101
(505) 683-5341

Date 4-21-05

Customer's Name DIAMOND BACK

Address 505 392 996 P. Box 2491

Commodity Cont Soil

Carrier _____

73320 lb Gross
Id# 12352 *IN*

Driver Paul On _____ Off _____

LBS NET @ _____ Per lb. Price _____

Shipper _____

Weigher [unclear]

Form #SASD001

No. 12347

Date _____

4/21/05



Albin Smith
506 State Road 467
Clovis, NM 88101
(505) 683-5341

#501
Clean
67280 lb Gross
Id# 12347 *IN*

Customer's Name _____

76180

Address _____

Commodity _____

Carrier _____

Driver _____ On _____ Off _____

LBS NET @ _____ Per lb. Price _____

Shipper _____

Weigher _____

Hand C. #501
Tax 31270
4:18

**NON-HAZARDOUS
 WASTE MANIFEST**

1. Generator's US EPA ID No. *N/A* Manifest Doc. No. 2. Page 1 of

Generator's Name and Mailing Address
 Cannon Air Force Base, New Mexico
 Hwy 60/84
 CAFB, New Mexico
 Fire Training Area No. # 4

4. Generator's Phone () *505-301-4716*
 5. Transporter 1 Company Name *Diamondback Disposal Services*
 6. US EPA ID Number *N/A*
 A. Transporter's Phone *505-392-9996*

7. Transporter 2 Company Name
 8. US EPA ID Number
 B. Transporter's Phone

9. Designated Facility Name and Site Address
 Facility DP-619
 8 miles south of Hobbs, on Hwy 18
 Lea County
 10. US EPA ID Number *N/A*
 C. Facility's Phone *505-392-9996*

11. Waste Shipping Name and Description	12. Containers		13. Total Quantity	14. Unit Wt/Vol
	No.	Type		
a. <i>Hydrocarbon Impacted Soils</i>	<i>1</i>	<i>Belly</i>	<i>18.75</i>	<i>ton</i>
b. <i>clean fill</i>	<i>1</i>	<i>Belly</i>	<i>15.83</i>	<i>ton</i>
c.				
d.				

Additional Descriptions for Materials Listed Above
Non Hazardous
 E. Handling Codes for Wastes Listed Above
N/A

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 *Dennis R Tarmois* Signature *[Signature]* Month *9* Day *18* Year *05*

17. Transporter 1 Acknowledgement of Receipt of Materials
 Printed/Typed Name *Daniel Marquez* Signature *[Signature]* Month *4* Day *21* Year *05*

18. Transporter 2 Acknowledgement of Receipt of Materials
 Printed/Typed Name Signature Month Day Year

19. Discrepancy Indication Space
 #5 Address: *4007 Lovington Hwy. Hobbs, NM 88240*

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

Printed/Typed Name *Linsley Dyer* Signature *[Signature]* Month *14* Day *12* Year *05*

GENERATOR TRANSPORTER FACILITY

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

NON-HAZARDOUS WASTE MANIFEST	1. Generator's US EPA ID No. N/A	Manifest Doc. No.	2. Page 1 of	
-------------------------------------	-------------------------------------	-------------------	--------------	--

3. Generator's Name and Mailing Address Cannon Air Force Base, New Mexico Hwy 60/84 CAFB, New Mexico		Fire Training Area No. # 4	
4. Generator's Phone () 505-301-4716	6. US EPA ID Number N/A	A. Transporter's Phone 505-392-9996	
5. Transporter 1 Company Name Diamondback Disposal Services	8. US EPA ID Number	B. Transporter's Phone	
7. Transporter 2 Company Name	10. US EPA ID Number N/A	C. Facility's Phone 505-392-9996	
9. Designated Facility Name and Site Address Facility DP-619 8 miles south of Hobbs, on Hwy 18 Lea County			

11. Waste Shipping Name and Description	12. Containers		13. Total Quantity	14. Unit Wt/Vol
	No.	Type		
a. Hydrocarbon Impacted Soils	1	Belly	20	cy
b. Clean Fill	1	Drum	1	55 gal
c.				
d.				

D. Additional Descriptions for Materials Listed Above Non Hazardous	E. Handling Codes for Wastes Listed Above N/A
--	--

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 X <u>Deann R. Trammis</u>	Signature <u>[Signature]</u>	Month Day Year <u>9</u> / <u>18</u> / <u>05</u>
17. Transporter 1 Acknowledgement of Receipt of Materials	Printed/Typed Name X <u>Daniel Martinez</u>	Signature <u>[Signature]</u>
18. Transporter 2 Acknowledgement of Receipt of Materials	Printed/Typed Name X <u>Daniel Martinez</u>	Signature <u>[Signature]</u>
	Month Day Year	Month Day Year

19. Discrepancy Indication Space

#5 Address: 4007 Lovington Hwy.
Hobbs, NM 88240

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

Printed/Typed Name X <u>LINDA LYER</u>	Signature <u>[Signature]</u>	Month Day Year <u>14</u> / <u>12</u> / <u>05</u>
---	---------------------------------	---

GENERATOR
TRANSPORTER
FACILITY

CABLE SERVICE CO. - Hobbs, N.M.
 CERTIFIED WEIGHMASTER # 228

Date 4-21-2005 No. 46683

Load of Empty 2010 * DM 3 * T-77

Driver - On _____ Off

Gross 33840

Tare _____

Net _____

NMDA Approved

Contractor Diamond Back

Customer Air Force Base

To Clovis N.M.

From Hobbs N.M.

Weighmaster Parque Rey # 060-1

Driver Daniel Morgan

CABLE SERVICE CO. - Hobbs, N.M.
 CERTIFIED WEIGHMASTER # 228

Date 4/21/2005 No. 46692

Load of CLEAN OIL TE # DM 3 * T-77

Driver - On _____ Off

67420 Gross

Tare _____

Net _____

NMDA Approved

Contractor Diamond Back

Customer Air Force Base

To Clovis N.M.

From Hobbs N.M.

Weighmaster Parque Rey # 060-1

Driver Daniel Morgan

No. 12344

Date 4/21/05

Customer's Name Diamond Back

Address 505-392-9996 #7 Box 2491

Commodity _____

Carrier Dani's TRK

Driver Daniel On _____ Off

LBS NET @ _____ Per lb. Price _____

Shipper _____

Weigher Luca

Form #SAS001

SAS DAIRY 

Albin Smith
 506 State Road 467
 Clovis, NM 88101
 (505) 683-5341

73260 lb Gross
 Id# 3 #14*

**NON-HAZARDOUS
 WASTE MANIFEST**

1. Generator's US EPA ID No. **N/A** Manifest Doc. No. _____ 2. Page 1 of _____

Generator's Name and Mailing Address
**Cannon Air Force Base, New Mexico
 Hwy 60/84
 CAFB, New Mexico** Fire Training Area No.# 4

4. Generator's Phone () **505-301-4716** 6. US EPA ID Number **N/A** A. Transporter's Phone **505-392-9996**
 5. Transporter 1 Company Name **Diamondback Disposal Services**

7. Transporter 2 Company Name _____ 8. US EPA ID Number _____ B. Transporter's Phone _____

9. Designated Facility Name and Site Address **Facility DP-619
 8 miles south of Hobbs, on Hwy 18
 Lea County** 10. US EPA ID Number **N/A** C. Facility's Phone **505-392-9996**

11. Waste Shipping Name and Description	12. Containers		13. Total Quantity	14. Unit W/Vol
	No.	Type		
a. Hydrocarbon Impacted Soils			20.99	ton
			Belly 20	ty
b. clean fill			16.13	ton
c.				
d.				

J. Additional Descriptions for Materials Listed Above **Non Hazardous** E. Handling Codes for Wastes Listed Above **N/A**

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 **Dennis R Timmons** Signature *[Signature]* Month **5** Day **18** Year **05**

17. Transporter 1 Acknowledgement of Receipt of Materials
 Printed/Typed Name **Daniel Mangrove** Signature *[Signature]* Month **4** Day **21** Year **05**

18. Transporter 2 Acknowledgement of Receipt of Materials
 Printed/Typed Name _____ Signature _____ Month _____ Day _____ Year _____

19. Discrepancy Indication Space
 #5 Address: **4007 Lovington Hwy.
 Hobbs, NM 88240**

0. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.
 Printed/Typed Name **Wesley Dyer** Signature *[Signature]* Month **14** Day **21** Year **05**

GENERATOR

TRANSPORTER

FACILITY

**NON-HAZARDOUS
WASTE MANIFEST**

1. Generator's US EPA ID No. *N/A* Manifest Doc. No. 2. Page 1 of

3. Generator's Name and Mailing Address
*Cannon Air Force Base, New Mexico
Hwy 60/84
CAFB, New Mexico*

4. Generator's Phone () *505-301-4716*

Fire Training Area
No. # 4

5. Transporter 1 Company Name *Diamondback Disposal Services* 6. US EPA ID Number *N/A* A. Transporter's Phone *505-392-9996*

7. Transporter 2 Company Name 8. US EPA ID Number B. Transporter's Phone

9. Designated Facility Name and Site Address *Facility DP-619
8 miles south of Hobbs, on Hwy 18
Lea County* 10. US EPA ID Number *N/A* C. Facility's Phone *505-392-9996*

11. Waste Shipping Name and Description 12. Containers No. Type 13. Total Quantity 14. Unit W/Vol

a. *Hydrocarbon Impacted Soils* *20 19 100*
Belly 20 cy

b. *Clean Fill* *16.13*

c.

d.

D. Additional Descriptions for Materials Listed Above *Non Hazardous* E. Handling Codes for Wastes Listed Above *N/A*

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 *Denise R. Timmons* Signature *[Signature]* Month Day Year *4 18 05*

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name *Daniel Mayz* Signature *[Signature]* Month Day Year *4 21 05*

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name Signature Month Day Year

19. Discrepancy Indication Space
*#5 Address: 4007 Lovington Hwy.
Hobbs, NM 88240*

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]* Signature *[Signature]* Month Day Year *4 21 05*

GENERATOR

TRANSPORTER

FACILITY

No. 12351

Date 4-21-05



Albin Smith
506 State Road 467
Clovis, NM 88101
(505) 683-5341

Customer's Name Diamondback

Address PO Box 2491

Commodity _____

Carrier Dan's

Driver Daniel On _____ Off

LBS NET @ _____ Per lb. Price _____

Shipper _____

Weigher Lucas

Form #SASD001

4:47 pm
68020 lb Gross
Id# 3 *IN*

T77 33820 new tare
4/21/05
#46683

No. 12355

Date 4-21-05



Albin Smith
506 State Road 467
Clovis, NM 88101
(505) 683-5341

Customer's Name Diamondback

Address PO Box 2491

Commodity _____

Carrier Dan's TRT

Driver Daniel On _____ Off

LBS NET @ _____ Per lb. Price _____

Shipper _____

Weigher Lucas

Form #SASD001

77740 lb Gross
Id# 3 *IN*

NON-HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. N/A	Manifest Doc. No.	2. Page 1 of
Generator's Name and Mailing Address Cannon Air Force Base, New Mexico Hwy 60/84 CAFB, New Mexico		Fire Training Area No. # 4		
4. Generator's Phone () 505-301-4716	6. US EPA ID Number N/A		A. Transporter's Phone 505-392-9996	
5. Transporter 1 Company Name Diamondback Disposal Services	8. US EPA ID Number		B. Transporter's Phone	
7. Transporter 2 Company Name	10. US EPA ID Number N/A		C. Facility's Phone 505-392-9996	
9. Designated Facility Name and Site Address Facility DP-619 8 miles south of Hobbs, on Hwy 18 Lea County				
11. Waste Shipping Name and Description		12. Containers No.	13. Total Quantity	14. Unit Wt/Vol
a. Hydrocarbon Impacted Soils			19.17 Belly 20	ton cy
b. Clean Fill			20.36	
c.				
d.				
16. Additional Descriptions for Materials Listed Above Non Hazardous		E. Handling Codes for Wastes Listed Above N/A		
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 Dennis R Timmons		Signature <i>[Signature]</i>		Month Day Year 4 21 05
17. Transporter 1 Acknowledgement of Receipt of Materials Printed/Typed Name René Caraveo		Signature René Caraveo		Month Day Year 4 21 05
18. Transporter 2 Acknowledgement of Receipt of Materials Printed/Typed Name		Signature		Month Day Year
19. Discrepancy Indication Space #5 Address: 4007 Lovington Hwy. Hobbs, NM 88240				
J. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.				
Printed/Typed Name Linsy Dyer		Signature <i>[Signature]</i>		Month Day Year 4 21 05

GENERATOR

TRANSPORTER

FACILITY

Please print or type
(Form designed for use on 8 1/2" (12-pitch) typewriter.)

NON-HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. N/A	Manifest Doc. No.	2. Page 1 of
3. Generator's Name and Mailing Address Cannon Air Force Base, New Mexico Hwy 60/84 CAFB, New Mexico		Fire Training Area No. # 4		
4. Generator's Phone () 505-301-4716	6. US EPA ID Number N/A		A. Transporter's Phone 505-392-9996	
5. Transporter 1 Company Name Diamondback Disposal Services	7. Transporter 2 Company Name		B. Transporter's Phone	
9. Designated Facility Name and Site Address Facility DP-619 8 miles south of Hobbs, on Hwy 18 Lea County		10. US EPA ID Number N/A		C. Facility's Phone 505-392-9996
11. Waste Shipping Name and Description			12. Containers	13. Total Quantity
a. Hydrocarbon Impacted Soils			No.	Type
b. Clean F.U.C.C.				
c.				
d.				
14. Unit W/Vol				
D. Additional Descriptions for Materials Listed Above Non Hazardous			E. Handling Codes for Wastes Listed Above N/A	
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 Dean R Turner		Signature <i>[Signature]</i>		Month Day Year 4 21 05
17. Transporter 1 Acknowledgement of Receipt of Materials		Printed/Typed Name Rene Caraveo		Signature <i>[Signature]</i>
18. Transporter 2 Acknowledgement of Receipt of Materials		Printed/Typed Name		Signature
19. Discrepancy Indication Space				
#5 Address: 4007 Lovington Hwy. Hobbs, NM 88240				
20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.				
Printed/Typed Name LARRY DYER		Signature <i>[Signature]</i>		Month Day Year 4 21 05

GENERATOR

TRANSPORTER

FACILITY

No. 12345

Date 4/21/05



Albin Smith
506 State Road 467
Clovis, NM 88101
(505) 683-5341

Customer's Name Diamondback Disposal

Address 105 - 392 - 9996 PO Box 2791

Commodity _____

Carrier Robert and Son's

Driver Rene C On _____ Off

LBS NET @ _____ Per lb. Price _____

Shipper _____

Weigher Juan

74080 lb Gross
Id# 196 #IN*

5/21/05

Robert and Son's
Truck # 196
Trailer # 103

Form # SASD001

Clean

CABLE SERVICE CO. - Clovis, N.M.		Date	<u>4/21/05</u>	No	<u>46690</u>
CERTIFIED WEIGHMASTER # 000		Load of	<u>Good H</u>	Tr. #	<u>196</u>
Driver	<u>Rene C</u>	On	<input type="checkbox"/>	Off	<input checked="" type="checkbox"/>
	76470	Gross		Contractor	<u>Diamondback</u>
		Tare		Customer	<u>Force Base</u>
		Net		To	<u>Clovis</u>
				From	<u>Hobbs</u>
				Weighmaster	<u>SEAR</u> # <u>cb0-38</u>
				Driver	<u>Rene Caroveo</u>
NMDA Approved					

No. 12350

Date 4/21/05



Albin Smith
506 State Road 467
Clovis, NM 88101
(505) 683-5341

Customer's Name Diamondback Disposal

Address 505 392-9996 p.o. Box 2991

Commodity _____

Carrier Robert and son's

Driver René C. On _____ Off

LBS NET @ _____ Per lb. Price _____

Shipper _____

Weigher Juan

04:50 PM Apr 21, 2005

74900 lb TrGr

74080 lb TrTar

820 lb Net

Id# 196 *OUT*

?

4:50

Dirty?

Form #SAS0001

10.52

**NON-HAZARDOUS
 WASTE MANIFEST**

1. Generator's US EPA ID No.
 N/A

Manifest Doc. No.

2. Page 1
 of

Generator's Name and Mailing Address

Cannon Air Force Base, New Mexico
 Hwy 60/84
 CAFB, New Mexico

Fire Training Area
 No # 4

4. Generator's Phone () 505-301-4716

5. Transporter 1 Company Name
 Diamondback Disposal Services

6. US EPA ID Number
 N/A

A. Transporter's Phone
 505-392-9996

7. Transporter 2 Company Name

8. US EPA ID Number

B. Transporter's Phone

9. Designated Facility Name and Site Address
 Facility DP-619

8 miles south of Hobbs, on Hwy 18
 Lea County

10. US EPA ID Number
 N/A

C. Facility's Phone
 505-392-9996

11. Waste Shipping Name and Description

12. Containers

13. Total
 Quantity

14. Unit
 Wt/Vol

a. Hydrocarbon Impacted Soils

No.

Type

21.30
~~Belly 20~~

TON
 cy

b.

c.

d.

Additional Descriptions for Materials Listed Above

Non Hazardous

E. Handling Codes for Wastes Listed Above

N/A

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

Denis R Timmons

Signature

[Handwritten Signature]

Month Day Year
 4 18 05

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name

Rene Caraveo

Signature

[Handwritten Signature]

Month Day Year
 4 21 05

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

19. Discrepancy Indication Space

#5 Address: 4007 Lovington Hwy.
 Hobbs, NM 88240

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

Printed/Typed Name

Russell Dyer

Signature

[Handwritten Signature]

Month Day Year
 4 12 05

GENERATOR

TRANSPORTER

FACILITY

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

**NON-HAZARDOUS
WASTE MANIFEST**

1. Generator's US EPA ID No.

N/A

Manifest Doc. No.

2. Page 1
of

3. Generator's Name and Mailing Address

Cannon Air Force Base, New Mexico
Hwy 60/84
CAFB, New Mexico

Fire Training Area
No. # 4

4. Generator's Phone () 505-301-4716

5. Transporter 1 Company Name
Diamondback Disposal Services

6. US EPA ID Number
N/A

A. Transporter's Phone
505-392-9996

7. Transporter 2 Company Name

8. US EPA ID Number

B. Transporter's Phone

9. Designated Facility Name and Site Address
Facility DP-619
8 miles south of Hobbs, on Hwy 18
Lea County

10. US EPA ID Number
N/A

C. Facility's Phone
505-392-9996

11. Waste Shipping Name and Description

12. Containers

No.

Type

13. Total
Quantity

14. Unit
Wt/Vol

a. Hydrocarbon Impacted Soils

2130
Belly 20
cy

b.

c.

d.

D. Additional Descriptions for Materials Listed Above

Non Hazardous

E. Handling Codes for Wastes Listed Above

N/A

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

Debbie R Timmon

[Signature]

4/18/05

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

Rene Carasco

[Signature]

4/21/05

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

19. Discrepancy Indication Space

#5 Address: 4007 Lovington Hwy.
Hobbs, NM 88240

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

[Signature]

[Signature]

4/21/05

GENERATOR

TRANSPORTER

FACILITY

No. 12356



Albin Smith
506 State Road 467
Clovis, NM 88101
(505) 683-5341

Date 4/21/05

Customer's Name Diamondback Disposal

Address P.O. Box 2491

Commodity _____

Carrier Robert and Son's

Driver René C. On _____ Off

LBS NET @ _____ Per lb. Price _____

Shipper _____

Weigher John

Id# 78340 1b Gross
196 *IN*

Appendix D

Site Photographs



Northwestern portion of excavation.



Northeastern corner of excavation.



Eastern end of excavation.



Southern view of excavation.



Eastern end of excavation with pipe exposed.



Southeastern portion of excavation with confirmation sample location.



Stockpiled soil. Clean soil weighted down plastic.



Western end of excavation.



Confirmation sample in center of excavation.



Stockpiling operations.



View of excavation to the east.



Location of eastern sidewall confirmation sample.



View of excavation from the southeastern corner.



Confirmation soil sample locations in the southern and southeastern portion of the excavation.



Confirmation soil sample location in the northern sidewall.

Appendix E

**Final Work Plan Addendum for the
Removal of Contaminated Soil at
SWMU 109 (Fire Training Area No. 4),
March 2005**

**FINAL WORK PLAN ADDENDUM
FOR THE REMOVAL OF CONTAMINATED SOIL
AT SWMU 109 (FIRE TRAINING AREA NO. 4)
CANNON AIR FORCE BASE, NEW MEXICO**

Prepared for:

27 CE/CEV
Cannon Air Force Base, New Mexico

and

HQ ACC/CEVC
Langley Air Force Base, Virginia

Prepared by:

Tetra Tech, EC. Inc.
6605 Uptown Boulevard, NE
Albuquerque, New Mexico 87110

Under Contract No. DACW45-94-D-0003
Delivery Order 28, Work Authorization Directive 1

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

March 2005

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(Fire Training Area No. 4), Cannon Air Force Base, New Mexico (May 2000)
- Appendix B Analytical Quality Control Requirements – March 2005

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LIST OF ACRONYMS

AFB	Air Force Base
CIH	Certified Industrial Hygienist
CMS	corrective measures study
cy	cubic yards
DO	Delivery Order
DRO	diesel range organics
EPA	U.S. Environmental Protection Agency
Foster Wheeler Environmental	Foster Wheeler Environmental Corporation
ft	foot/feet
FTA-4	Fire Training Area 4
HASP	Health and Safety Plan
NMED	New Mexico Environment Department
PCS	petroleum-contaminated soil
PPE	personal protective equipment
QA	quality assurance
QC	quality control
QAPP	Quality Assurance Project Plan
SHSO	Site Health and Safety Officer
SOP	standard operating procedure
SSHP	Site Safety and Health Plan
SWMU	solid waste management unit
TCLP	toxicity characteristic leaching procedure
TN&A	T N & Associates, Inc.
TPH	total petroleum hydrocarbons
TtEC	Tetra Tech EC, Inc.
USACE	U.S. Army Corps of Engineer

1. INTRODUCTION

This document is an addendum to the May 2000 Draft Work Plan for the Removal of Contaminated Soil at Solid Waste Management Unit (SWMU) 109 (Fire Training Area No. 4). The work plan addendum describes the updated scope of work and field program for the excavation and disposal of petroleum-contaminated soil (PCS) at Fire Training Area 4 (FTA-4), Cannon Air Force Base (AFB) (Figure 2-1 of the Draft Work Plan). Four separate SWMUs comprise FTA-4 and include the following:

- SWMU 109—Fire Training Pit
- SWMU 110—Underground Waste Oil Tank
- SWMU 111—Unlined Pit
- SWMU 112—Oil/Water Separator

The scope of work developed in 2000 as part of the corrective measures study (CMS) described the work process and requirements for excavating soil from an area measuring 20 feet (ft) by 20 ft to a depth of 2 ft, and the subsequent disposal of the PCS to support corrective action of the site. The scope of the original field program was never conducted and a revised approach for corrective action of the site using an *in situ* passive bioventing system was selected as the final remedy during the CMS. However, passive bioventing system was never implemented either. As a result, high molecular weight petroleum contamination still exists in soil at the site even though the risk assessment shows that exposure to individual chemicals indicated acceptable risk to human health and the environment following current NMED guidance (Foster Wheeler Environmental, 2001).

The objective of this field program is to remove the top 2 ft of soil from an area measuring approximately 8,000 square feet determined as a result of the Phase 1 Investigation Soil Corrective Measures conducted by T N & Associates (TN&A) (TN&A, 2005). Figure 1 presents a map showing the location of the proposed excavation area where high levels of total petroleum hydrocarbon (TPH) diesel range organics (DRO) were detected during the Phase 1 Investigation in November 2004. Tetra Tech EC, Inc. (TtEC) and TN&A will conduct the field work in a collaborative effort consisting of the following tasks:

- Site mobilization (TtEC)
- Excavation and stockpiling of up to 650 cubic yards (cy) (equivalent to 1000 tons) of PCS from the area or the former concrete pad within SWMU 109 (TtEC)
- Confirmation sampling of the excavation sidewalls and floor, and sampling of the soil to be disposed offsite for the purpose of waste characterization (TtEC)
- Off-site transportation and disposal of up to 1,000 tons of PCS (TN&A)
- Excavation backfilling, compacting, and grading (TN&A)
- Site demobilization (TN&A)

The approach for this soil removal project is based on the results of the November 2004 field sampling program conducted by TN&A which confirmed the presence of petroleum contamination in soil at FTA-4 (TN&A, 2005). TtEC will conduct this corrective action for Cannon AFB and the U.S. Army Corps of Engineers (USACE) under Total Environmental Restoration Contract No. DACW-45-94-D0003, Delivery Order (DO) 28, Work Authorization Directive 1.

This document is an addendum to the Draft Work Plan for the Removal of Contaminated Soil at SWMU 109 (Foster Wheeler Environmental, 2000). All field activities will be performed in accordance with the Basewide Health and Safety Plan (HASP) (Foster Wheeler Environmental, 2000b), the project Site Safety and Health Plan (SSHP), and USACE health and safety requirements (USACE, 2003). The Draft Work Plan is presented in its entirety as Appendix A of this document.

All activities will be governed by the applicable technical specifications, standard operating procedures (SOPs), and requirements as originally presented in Appendices A through E of the Draft Work Plan. The project-specific SSHP will be followed for health and safety on site as will the site-specific Activity Hazard Analysis. Supplemental information for the management of waste and project-specific quality assurance (QA) and quality control (QC) are provided in Section 4.0 of this work plan addendum. Appendix A presents a copy of the Draft Work Plan as a supplemental attachment to this work plan addendum for reference.

2. SCOPE OF ACTIVITIES

The following subsections present information related to the activities associated with the removal action at FTA-4. For specific information refer to Section 4 of the Draft Work Plan.

2.1 Site Mobilization

Mobilization activities will include:

- Attending preconstruction meeting
- Determining site layout and traffic/access roads
- Delivering equipment, materials, and supplies to the site
- Establishing construction zones at the site
- Confirming approval of the base digging permit and inspecting utility mark-outs at the site
- Securing necessary clearances/approvals to work at the site
- Conducting site-specific orientation and health and safety training of workers, including medical surveillance information, and issuing base passes

TtEC will conduct a preconstruction meeting at Cannon AFB on the morning of the first day of mobilization. Invitees to the conference will include:

<u>Name</u>	<u>Affiliation</u>	<u>Project Role</u>
Sheila Newman	Cannon AFB	RCRA Corrective Action Remediation Program Manager
Jane Davey	USACE	Technical Project Manager
Ron Versaw	TtEC	Program Manager/Project Engineer
Carol Bieniulis	TtEC	DO Manager
James Morning	TtEC	Site Superintendent/Site Health and Safety Officer (SHSO)
Craft	TtEC	Laborer
Nova Clite	TN&A	Project Manager

Other individuals from the base, USACE, and TN&A may attend the meeting as necessary. The meeting will be conducted at Cannon AFB during mobilization. Those individuals who will not be on site may attend via teleconference. For specific information related to mobilization, refer to Section 4.2.2 of the Draft Work Plan.

2.2 Excavation and Stockpiling

Up to 650 cy (equivalent to approximately 1000 tons) of PCS from the area or the former concrete pad within SWMU 109 will be excavated and stockpiled during this task. Construction activities that will be performed immediately following mobilization include:

- Temporary erosion and sediment control
- Excavation of PCS
- Stockpiling and management of stockpiles prior to transportation and offsite disposal
- Confirmation and waste characterization stockpile soil sampling

For specific information related to excavation and stockpiling, refer to Section 4.2.3 of the Draft Work Plan.

2.3 Confirmation and Stockpile Soil Sampling

TtEC will collect eight samples and one field duplicate from the sidewalls and floor of the excavation to confirm the presence or absence of contamination. Five discrete sample locations will be distributed around the perimeter wall at equally spaced intervals and three discrete samples will be located on the excavation floor. The field duplicate will be collected at random as a sample corresponding to any of the eight confirmation samples. The confirmation soil samples will be analyzed for TPH DRO using U.S. Environmental Protection Agency (EPA) SW-846 method modified 8015M. The excavation sidewalls and floor soil will be sampled according to SOP B3, Soil Sampling, which is included in Appendix B of the Draft Work Plan.

Prior to excavation, TtEC will collect one five-point composite sample from within the area to be excavated in order to characterize the soil for offsite disposal as required by the disposal facility. Since all soil that is excavated will be disposed off site, this approach for sampling prior to

stockpiling will expedite the sample analysis and evaluation of data to allow transportation and offsite disposal soon after excavation is complete. The stockpile soil sample will be analyzed for the following parameters:

- TPH DRO – EPA SW-846 method modified 8015M
- Toxicity characteristic leaching procedure (TCLP) volatile organic compounds – EPA SW-846 method 1311/8260
- TCLP semivolatile organic compounds – EPA SW-846 method 1311/8270
- TCLP pesticides – EPA SW-846 method 1311/8081
- TCLP herbicides – EPA SW-846 method 1311/8151
- TCLP metals – EPA SW-846 method 1311/6010B and 7470A
- Ignitability – EPA SW-846 method 1311/1010
- Reactivity (cyanide and sulfide) – EPA SW-846 method Chapter 7

Sample results will be provided by the laboratory based on a five-day turnaround. Upon receipt of the analytical data, the project chemist will review the results and provide them to the project manager for evaluation. The analytical results for confirmation samples will be evaluated in accordance with current NMED guidance. As all stockpiled soil will be disposed off site under a subcontract with TN&A, the analytical results for the stockpiled soil will be provided to USACE and TN&A to support waste disposal.

2.3.1 Sample Designation

TtEC will use the following sample nomenclature for designating environmental samples per the Draft Work Plan (Foster Wheeler Environmental, 2000):

Installation	###	AA	##
Cannon	SWMU Identification	Sample Type	Sequential Sample Number

Sample nomenclature for this project is limited to the following:

Installation: Cannon AFB (C)
 ###: 109
 AA: Excavation floor (EF) or sidewall (EW); or stockpile (SP)
 ##: 01, 02, 03, 04, 05

For example, according to the sample numbering system, the first soil sample collected from an excavation sidewall will be identified as C109EW01.

2.3.2 Sampling Equipment and Procedures

TtEC will conduct all sampling in accordance with the SOPs contained in Appendix B. Specifically, these SOPs and the equipment required to implement the SOPs are as follows:

- SOP B1—Decontamination Methods
- SOP B2—Photoionization Detectors
- SOP B3—Soil Sampling
- SOP B4—Sample Handling and Documentation

Details of the implementation of the sampling procedures are contained in the SOPs referenced above. All SOPs applicable to the supplemental field program are presented in Appendix B.

2.4 Offsite Transportation and Disposal

Assuming up to 650 cy of soil are excavated from FTA-4, up to 1,000 tons of PCS will require offsite disposal. Waste transportation and disposal will be handled by TN&A under a contract separate from the work conducted by TtEC. The transportation, storage, and disposal facility to be subcontracted by TN&A is Rhino Environmental Inc. which operates a regulated New Mexico Special Waste disposal facility in Hobbs, New Mexico.

A TN&A representative will provide oversight for waste loading and transportation off the Base.

Manifests for all waste disposed off site will be signed by the Cannon AFB Project Manager. TN&A will provide copies of the waste manifests to Cannon AFB, USACE, and TtEC for project documentation.

For specific information related to waste management, refer to Section 5.3 of the Draft Work Plan.

2.5 Excavation Backfilling

The excavation will be backfilled with clean material brought in from an offsite source. Rhino Environmental will supply and transport clean soil backfill material. Either direct dumping or the use of a backhoe or wheel loader may be used to place backfill in maximum 1-ft lifts.

Variation to the Technical Specification on Earthwork in Appendix B of the Draft Work Plan:
The weight of the truck and/or the backhoe or wheel loader will be sufficient to compact the soil backfill material. Mechanical compaction to 90 percent of standard proctor will not be required. Consistent with the technical specification in Appendix B of the Draft Work Plan, geotechnical testing will not be required.

Revegetation of the area will not be required for this project.

For specific information related to backfilling, refer to Section 4.2.3.3 and Appendix B of the Draft Work Plan.

2.6 Site Demobilization

Demobilization will consist of removing all equipment, cleaning the project site, inspecting the work, and certifying completion. Site cleaning will include repairing any erosion- or runoff-related damage; grading all areas affected by the construction; removing all materials such as excess construction material, wood, debris, and other foreign material; and removing all construction equipment and temporary facilities.

3. HEALTH AND SAFETY

The Basewide HASP and project-specific SSHP (in Appendix A) will be used during the soil sampling and all other field activities. Based on site-specific information and the levels of constituents in the soil, the subsequent sections provided a summary of health and safety protocol that will be followed during the surface soil sampling.

3.1 Personal Protective Equipment

Level D personal protective equipment (PPE) will be used to conduct soil excavation and associated activities at FTA-4. The following items comprise Level D PPE that will be used during sampling activities:

- Sturdy pants and short- or long-sleeved shirt
- Leather or chemical-resistant work boots with a steel toe and shank
- Disposable nitrile outer gloves and nitrile inner gloves (required for sampling)
- Safety glasses
- OSHA-approved hard hat

3.2 Hazards

An updated AHA is provided in Appendix A, Attachment 4, and presents the potential physical, chemical, and biological hazards of the field program and the measures that will be taken to mitigate those hazards. During the excavation and truck loading, the SHSO will monitor the breathing zone of workers using a photoionization detector or flame ionization detector whenever odors indicate the presence of petroleum type materials in the excavated soil. In the event that during air monitoring a sustained concentration of 5 parts per million is detected in the work area, and upgrade in PPE to Level C respiratory protection will be required. Based on recent field activities at FTA-4 and associated air monitoring, chemical exposure is expected to be minimal or non-detectable.

3.3 Project Personnel and Emergency Response

Key project personnel for this project, their responsibilities, and telephone numbers are provided in Table 1. Emergency contacts for this project are provided in the health and safety contact summary sheet (see page 8). Mr. James Morning of TtEC and Mr. Parley Ansley of TN&A will also serve as the SHSOs, providing health and safety support for contractor-specific tasks throughout the field program.

Table 1. Key Personnel and Responsibilities

Name	Responsibility	Telephone Numbers
Carol Bieniulis	TtEC DO Manager	(505) 878-8900, x201 - Office (505) 301-4715 - Cell
Ron Versaw, P.E.	TtEC Program Manager	(303) 980-3707 - Office (303) 378-0674 - Cell
James Morning, OHST	TtEC Site Superintendent/SHSO	(505) 479-2668 - Office (505) 430-2307 - Cell
Roger Margotto, CIH	TtEC Project Environmental Safety Manager	(619) 471-3503 - Office (714) 810-3742 - Pager
Nova Clite	TN&A Project Manager	(414) 607-6727 - Office
Parley Ansley	TN&A Site Superintendent/SHSO	(515) 238-7802 - Cell

4. QUALITY ASSURANCE PROJECT PLAN

The Quality Assurance Project Plan (QAPP), Section 7 of the Draft Work Plan (Foster Wheeler Environmental, 2000), will be followed during the soil sampling. This QAPP follows the format provided in the General Chemistry Supplement to the Scope of Services for Studies (USACE, 1996). Sampling and analysis will be conducted in accordance with the QAPP and superceding information presented in this work plan addendum.

Appendix B to this work plan presents the analytical methods, reporting limits, and QC criteria specific to this corrective action. The information presented in Appendix B of this work plan addendum supercedes the information presented in Section 7 of the May 2000 Draft Work Plan. Soil samples collected in support of the FTA-4 soil removal action will be sent to GPL Laboratories for analysis. The address and project manager for GPL Laboratories is listed below.

GPL Laboratories
7210A Corporate Court
Frederick, Maryland 21703
Phone: (301) 694-5310
Project Manager: Pat Zimmerman

Confirmation soil samples will be analyzed for TPH-DRO only. The composite sample collected for characterization of the soil to be excavated will be analyzed for RCRA waste characterization parameters including TCLP, ignitability, and reactivity. The method reporting limits for TPH-DRO and the RCRA waste characterization analyses will achieve the 940 milligrams per kilogram NMED screening level for petroleum hydrocarbons and the regulatory levels for toxicity characteristics.

HEALTH AND SAFETY CONTACT SUMMARY SHEET

Tetra Tech EC, Inc.
6605 Uptown Blvd., Suite 220
Albuquerque, NM 87110
Office: (505) 878-8900
Fax: (505) 878-8933

T N & Associates, Inc.
1033 N. Mayfair Road, Suite 200
Milwaukee, WI 53226
Office: (414) 257-4200
Fax: (414) 257-2492

CONTACT NAME/TELEPHONE NUMBERS

Name and Title	Telephone Number
Carol Bieniulis – TtEC Delivery Order Manager	(505) 878-8900, x201 (505) 301-4715 (cell)
Ron Versaw, P.E. – TtEC Program Manager	(303) 980-3707 (303) 378-0674 (cell)
James Morning – TtEC Site Superintendent/SHSO	(505) 232-9348 (505) 301-4716 (cell)
Nova Clite – TN&A Project Manager	(414) 607-6727
Roger Margotto, CIH – TtEC Project Environmental Safety Manager	(619) 471-3503 (714) 810-3742 (pager)
Parley Ansley – TN&A Site Superintendent/SHSO	(515) 238-7802 (cell)
Sheila Newman – Cannon AFB RCRA Corrective Action Remediation Program Manager	(505) 784-6391
Jane Davey – USACE Technical Project Manager	(402) 221-7645
EMERGENCY TELEPHONE NUMBERS	
Agency	Telephone Number
Ambulance (Base)	(505) 784-4033
Fire Department (Base)	(505) 784-2578
Base Clinic	(505) 432-6866
Poison Control	(800) 432-6866
EPA (information line)	(800) 424-9346
National Response Center	(800) 424-8802
Chemtrec	(800) 424-9300
Civilian Hospital – Clovis High Plains Hospital	(505) 769-2141

5. REGULATORY COMPLIANCE

5.1 Permits

Title 40 of the Code of Federal Regulations 122.26 requires a National Pollution Discharge Elimination System permit for construction activity, including clearing, grading, and excavation activities, except for operations that result in the disturbance of less than 1 acre of total land area and are not part of a larger common plan of development or sale. The actual construction area for this project is less than 1 acre, therefore a construction permit or a Notice of Intent to discharge is not required and a project-specific Stormwater Pollution Prevention Plan is not required. To minimize any discharges resulting from construction activities, best management practices will be followed. Appendix A of the Draft Work Plan presents the technical specifications for this project as they relate to dust control, erosion and sediment control, and earthwork.

5.2 Waste Management

Waste will be generated as a result of excavation activities. Waste minimization techniques will be employed whenever possible. Waste generated during this field program will be characterized using the analytical results available from stockpile soil samples. Wastes that may be generated in the field are listed below:

- Contaminated soil
- Decontamination fluids
- PPE

The management of these wastes will follow Section 5.6 of the Regulatory Compliance Plan, included in Section 5 of the Draft Work Plan (Foster Wheeler Environmental, 2000).

6. PROJECT MANAGEMENT

6.1 Project Schedule

Table 2 presents the proposed project schedule.

6.2 Project Staffing Plan

The key parties involved in the project are the USACE Omaha District, Cannon AFB, TtEC, and TN&A. A summary of key TtEC project team members and their responsibilities follows.

- Mr. Ron Versaw, P.E., is the TtEC TERC Program Manager and Project Engineer. He will provide technical assistance and oversight of the work in accordance with regulations, professional standards, and client expectations.

Table 2. Project Schedule

Task	Start Date	End Date	Duration
TtEC Tasks			
Mobilization	3/28/2005	3/28/2005	1 day
Soil Characterization Sampling and Shipping	3/29/2005	3/29/2005	<1 day
Excavation and Stockpiling	3/29/2005	3/31/2005	3 days
Excavation Demobilization and Confirmation Sampling	4/1/2005	4/1/2005	1 day
Soil Results to USACE, Cannon AFB, and TN&A	4/6/2005		
TN&A Tasks			
Waste Disposal Hauling and Backfilling	4/4/2005	4/13/2005	8 days
Final Demobilization and Site Restoration	4/14/2005	4/15/2005	2 days
Letter report submittal by TtEC (one version only)	5/16/2005		

- Ms. Carol Bieniulis is the TtEC DO Manager for Cannon AFB and the Project Manager for the FTA-4 soil removal. She will be responsible for implementing the TtEC work tasks in accordance with performance, cost, and schedule goals and for overall coordination of the project. In addition, she is responsible for the direction, execution, and successful completion of all TtEC project tasks at Cannon AFB.
- Ms. Nova Clite is the TN&A Project Manager for the FTA-4 soil removal. She will be responsible for implementing the TN&A work tasks in accordance with performance, cost, and schedule goals and for overall coordination of the project.
- Mr. James Morning will serve as the TtEC Site Superintendent for this project. He will be responsible for the daily direction of TtEC site-related project activities. In addition, he is the Site Health and Safety Officer for TtEC work tasks. In this capacity he will be responsible for assisting site personnel in implementing the SSHP and performing duties related to health and safety.
- Mr. Parley Ansley will serve as the TN&A Site Superintendent for this project. He will be responsible for the daily direction of TN&A site-related project activities. In addition, he is the Site Health and Safety Officer for TN&A work tasks. In this capacity he will be responsible for assisting site personnel in implementing the SSHP and performing duties related to health and safety.
- Ms. Keli McKay is the TtEC Regulatory Compliance Manager and is responsible for addressing the project-related regulatory compliance issues.
- Mr. Roger Margotto, Certified Industrial Hygienist (CIH), is the TtEC Project Environmental Safety Manager. He will assist site personnel in resolving health and safety issues that may arise during the course of the project.

6.3 Documentation and Reporting

Reports and submittals are addressed in detail in Section 4 of the Construction QA/QC Plan in Appendix D of the Draft Work Plan.

6.3.1 Inspections

Due to the short timeframe associated with the field program, two inspections will be conducted by both TtEC and TN&A related to their specific work tasks as follows:

- Preparatory/Initial Phase Inspection – This single inspection will be completed prior to doing any work on site and will meet the requirements both types of inspections. Specific details of these inspections is provided in Sections 3.1 and 3.2 of the Construction QA/QC Plan in Appendix D of the Draft Work Plan.
- Completion Inspection – This single inspection will take place at the conclusion of the field tasks after all work has been completed by the contractor. This inspection will fulfill the requirements of the three types of completion inspections as outlined in Sections 3.4.1, 3.4.2, and 3.4.3 of the Construction QA/QC Plan in Appendix D of the Draft Work Plan.

6.3.2 Reporting

The reporting required for this project includes the following:

- Daily Quality Control Summary Reports – In accordance with Section 4.1 of the Construction QA/QC Plan in Appendix D of the Draft Work Plan, the TtEC Site Superintendent will prepare and submit Daily Quality Control Summary Reports (DQCRs) to the USACE Project Manager. A DQCR will be completed to document construction activities covered by the CQC Plan (Appendix D of the Draft Work Plan). Contractors will be responsible for the DQCRs related to their field tasks.
- Letter Report – At the conclusion of the project, TtEC will provide a one version of a letter report that documents project activities. Additional items to be presented in the letter report include variances to the work plan, if any; analytical data and associated evaluations; and waste manifests.

7. REFERENCES

Foster Wheeler Environmental

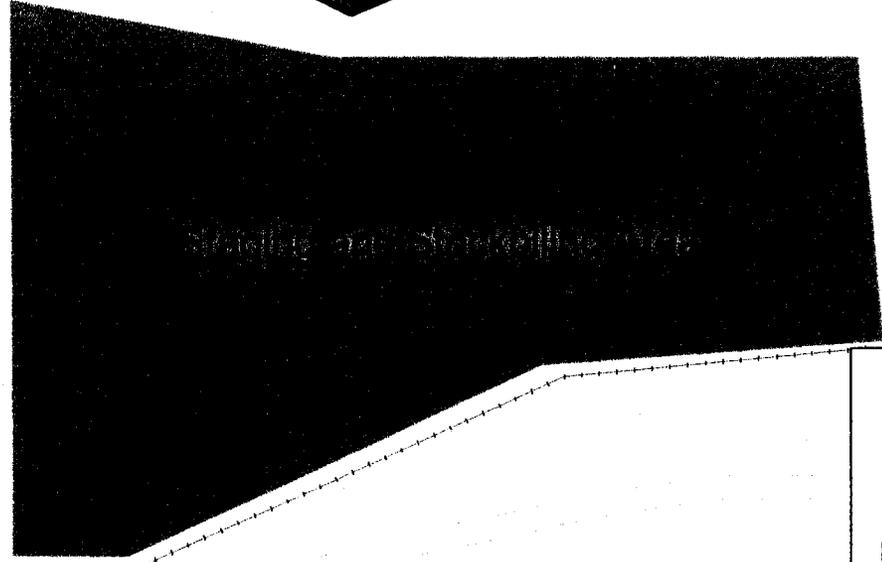
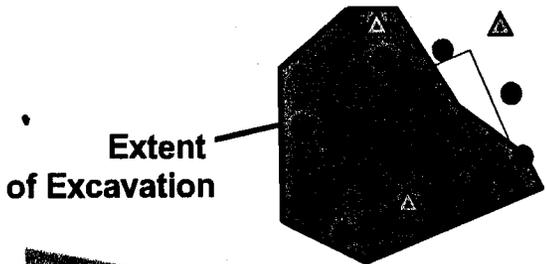
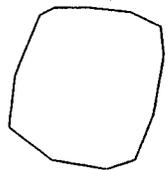
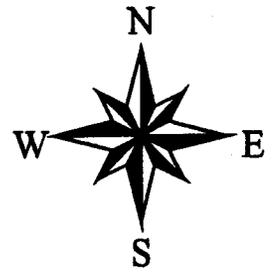
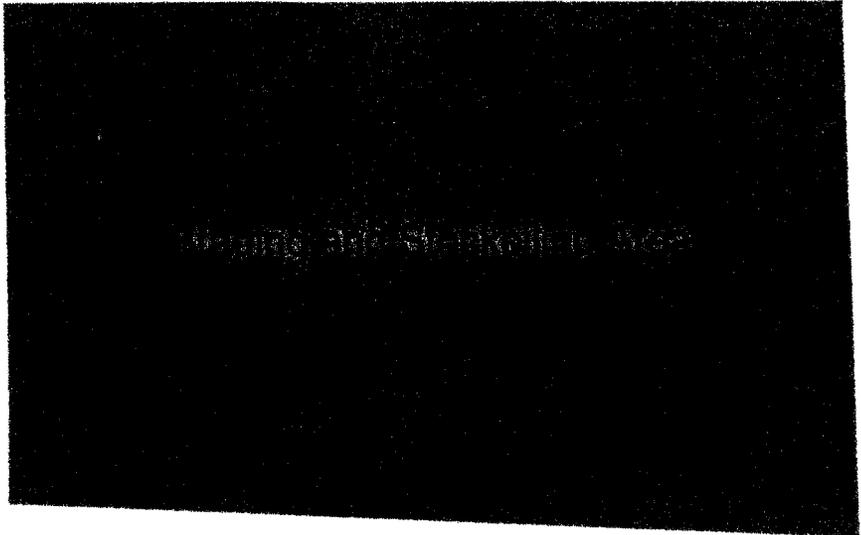
- 2001. Final Corrective Measures Study Report for SWMUs 109, 110, 111, and 112—Fire Training Area Four. Cannon Air Force Base, New Mexico. December 2001.
- 2000. Draft Work Plan for the Removal of Contaminated Soil at SWMU 109, Cannon Air Force Base, Clovis, New Mexico. May 2000.

TN&A

- 2005. Phase 1 Investigation at Fire Training Area 04, Cannon Air force Base, New Mexico. January 2005.

USACE

- 2003. Safety and Health Requirements, EM 385-1-1. November 2003.
- 2002. General Chemistry Supplement to the Scope of Services, Revision 2. November 2002.



● Phase 1 Investigation Sample Location (2004)

▲ RFI Sample Location (1991 and 1996)

--- Roads

▨ Buildings/Structures

--- Fence

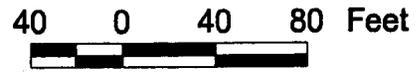


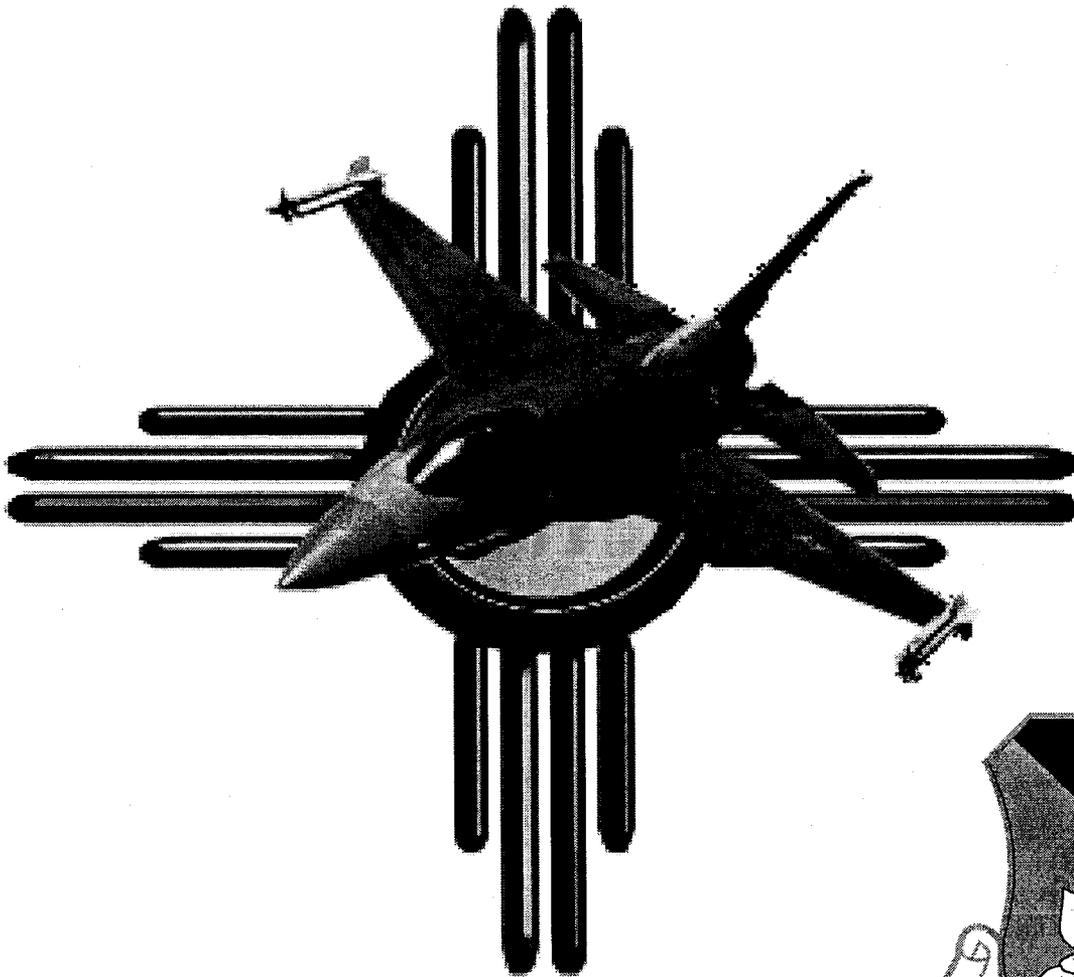
Figure 1
Fire Training Area 4
Proposed Excavation Area

APPENDIX A

**DRAFT WORK PLAN FOR THE REMOVAL OF SOIL
AT SWMU 109 (FIRE TRAINING AREA NO. 4)
CANNON AIR FORCE BASE, NEW MEXICO
(MAY 2000)**

Draft Work Plan for the Removal of
Contaminated Soil at SWMU 109
(Fire Training Area No. 4)
Cannon Air Force Base
Clovis, New Mexico

May 2000



**DRAFT WORK PLAN
FOR THE REMOVAL OF CONTAMINATED SOIL
AT SWMU 109 (Fire Training Area No. 4)
Cannon Air Force Base, New Mexico**

Prepared for:

27 CE/CEV
Cannon Air Force Base, NM

and

HQ ACC/CEV
Langley Air Force Base, VA

Prepared by:

Foster Wheeler Environmental Corporation
143 Union Boulevard, Suite 1010
Lakewood, Colorado 80228-1824

Under Contract No. DACW45-94-D-0003

Delivery Order 28, Work Authorization Directive 1

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

May 2000

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LIST OF ACRONYMS

AFB	Air Force Base
°C	degrees Celsius
CFR	Code of Federal Regulations
CMI	Corrective Measure Implementation
CMS	corrective measure study
C-O-C	chain-of-custody
CQAB	Chemistry Quality Assurance Branch
CQC	Contractor Quality Control
DOM	Delivery Order Manager
DOT	Department of Transportation
DQCR	daily quality control report
DQO	data quality objective
EPA	United States Environmental Protection Agency
ESQ	Environmental Safety and Quality
FCR	field change request
Foster Wheeler	Foster Wheeler Environmental Corporation
FSP	Field Sampling Plan
ft	feet/foot
FTA4	Fire Training Area No. 4
GC	gas chromatography
HARZA	Harza Environmental Services, Inc.
LDR	land disposal restriction
LIMS	laboratory information management system
MDL	method detection limit
MRL	method reporting limit
NMAC	New Mexico Administrative Code
NMED	New Mexico Environment Department

LIST OF ACRONYMS (Continued)

PCB	polychlorinated biphenyl
PCS	petroleum-contaminated soil
PESM	Project Environmental Safety Manager
PPE	personal protective equipment
ppm	parts per million
PSGS	passive soil gas survey
QA	quality assurance
QAPP	Quality Assurance Project Plan
QC	quality control
RCP	Regulatory Compliance Plan
RCRA	Resource Conservation and Recovery Act
RFI	RCRA Facility Investigation
SAP	Sampling and Analysis Plan
SHSO	Site Health and Safety Officer
SHSP	Site-Specific Health and Safety Plan
SOP	Standard Operating Procedure
SVOC	semivolatile organic compound
SWMU	Solid Waste Management Unit
TCLP	Toxicity Characteristic Leaching Procedure
TERC	Total Environmental Restoration Contract
TPH	total petroleum hydrocarbon
TRPH	total recoverable petroleum hydrocarbon
TSDF	treatment, storage, and disposal facility
USACE	United States Army Corps of Engineers
VOC	volatile organic compound

1.0 INTRODUCTION

This work plan presents the procedures that will be used for the voluntary removal of contaminated soil to support the Corrective Measures Study (CMS) of Fire Training Area No. 4 (FTA4) (Solid Waste Management Unit [SWMU] 109, the Fire Training Pit) at Cannon Air Force Base (AFB), New Mexico. This voluntary action is being performed under the Base's Resource Conservation and Recovery Act (RCRA) permit, issued by the New Mexico Environment Department (NMED) on behalf of the United States Environmental Protection Agency (EPA). Foster Wheeler Environmental Corporation (Foster Wheeler), at the direction of the United States Army Corps of Engineers (USACE) and Cannon AFB, will excavate and dispose of the contaminated soil and restore the site.

This work plan meets the requirements stipulated within the Total Environmental Restoration Contract (TERC) No. DACW45-94-D-0003, Delivery Order 28, Work Authorization Directive 1; RCRA Corrective Action Plan guidance (EPA, 1994a); and USACE and Base requirements. The work plan provides project objectives, site descriptions, technical specifications, field procedures, and related plans that address all aspects of the proposed construction activities at SWMU 109. All field activities will be performed in accordance with the Site-Specific Health and Safety Plan (SHSP) in Appendix E and USACE health and safety requirements (Section 4.2.6).

1.1 PROJECT OBJECTIVES AND DESCRIPTIONS

This work plan is designed to minimize the threat to human health and the environment at SWMU 109 by accomplishing the following:

- Excavate contaminated surface soil at SWMU 109
- Assess levels of contamination that remain following soil removal
- Characterize excavated soils for disposal
- Perform site restoration (backfilling with clean soil)

Contaminated soil will be excavated within the limits described in the project scope of work (an area of 20 feet (ft) by 20 ft by 2 ft deep surrounding Soil Boring [SB]-01). As requested by USACE, an action level of 1,000 parts per million (ppm) of total recoverable petroleum

hydrocarbons (TRPH) will determine the necessity for further excavation. This action level has been used for similar projects at Holloman AFB near Alamogordo, New Mexico. If the extent of contamination is above the proposed action level, as determined by immunoassay field test kits for total petroleum hydrocarbons (TPH) (described in Section 6.0), excavation will continue as requested by USACE and Cannon AFB. Soil excavation that exceeds the dimensions given above will require the submission of a field change request (FCR) to USACE. When excavation is complete, sampling will be conducted at the excavated area to assess the levels of contamination following the removal of the surface soil.

The excavated soil will be characterized to determine disposal options, and the site will be backfilled with clean soil. A letter report describing all work performed under this contract, including descriptions of tasks performed, supporting analytical data, daily quality control reports (DQCRs), and site maps showing the excavated areas, will be submitted to the USACE and Cannon AFB as an appendix to the SWMU Corrective Measures Study Report.

1.2 SITE BACKGROUND

Previous investigations conducted at SWMUs 109, 110, 111, and 112, which comprise FTA4, identified potential contamination in the area. A Phase II RCRA Facility Investigation (RFI) was conducted by Harza Environmental Services, Inc. (Harza) between October 16, 1996, and February 26, 1997. The investigations included:

- Passive soil gas survey (PSGS) to better determine the lateral extent of contamination by volatile and semivolatile organic compounds (SVOCs) and provide information used to select boring locations
- Drilling of 19 soil borings for the collection of surface and subsurface soil samples
- Collection and analysis of 77 soil samples and associated quality assurance/quality control (QA/QC) samples for laboratory chemical analysis, headspace analysis, and immunoassay screening
- Collection and testing of 12 soil samples for particle size analysis and moisture content
- Collection of continuous soil samples from each boring for lithologic description

Soil was the primary media investigated as part of the RFI. Soil sampling completed during the RFI determined the vertical and horizontal extent of contamination within the four SWMUs at FTA4. The PSGS indicated that the highest relative concentrations of volatile organic compounds (VOCs) and diesel range organics in soil gas were located within and immediately adjacent to the fire training pit (SWMU 109) and that VOC concentrations generally decreased with lateral distance from the fire training pit. Soil borings were located according to PSGS results in order to evaluate the other SWMUs and several anomalous areas identified by the survey. Subsequent fixed-laboratory data identified soil boring SB01, located at the fire pit, as the only significant area of soil contamination, in agreement with the PSGS. The soil gas data indicated high concentrations of ethylbenzene; xylenes; 1,2,4-trimethylbenzene; 1,3,5-trimethylbenzene; naphthalene; and 2-methylnaphthalene. High concentrations of these chemicals were also detected in the surface soil sample (3 to 4 ft) collected from SB01. The soil gas data also indicated relatively high concentrations of benzene, toluene, and cis-1,2-dichloroethane, which were not detected in samples analyzed by the laboratory. Conversely, some of the organic chemicals that were detected by the laboratory analysis were not identified by the soil gas technique. Most of the remaining sampling locations were shown to contain either nondetectable or low concentrations of VOCs and SVOCs by both soil gas and laboratory methods, with few exceptions.

Soil boring samples collected during the RFI indicated that VOCs above method reporting limits (MRLs) were only present in SB01, with total VOC concentrations ranging from 27.2 to 145,440 micrograms per kilogram ($\mu\text{g}/\text{kg}$), to a depth of 65 ft. SVOCs were detected above the MRLs in borings SB01 and SB16. SVOCs were mainly present in SB01, having concentrations varying from 18.5 to 17,089 $\mu\text{g}/\text{kg}$ to a depth of about 80 ft. However, most of the SVOCs were detected between the soil surface and 40 ft in boring SB01 and shallower than 10 ft in boring SB16. Similarly, benzene, toluene, ethybenzene, and xylenes were detected only in SB01, with concentrations ranging from 299.1 to 63,640 $\mu\text{g}/\text{kg}$. Total recoverable petroleum hydrocarbon (TRPH) was detected in all soil borings; however, high levels of TRPH were limited to SB01. Unlike the organics compounds, metals were present in all soil borings.

1.3 WORK PLAN OVERVIEW

This work plan describes the methods that will be used to excavate the contaminated soil from SWMU 109, collect sidewall and bottom samples, and characterize excavated soils for disposal. Foster Wheeler personnel, including subcontractors, will follow the procedures outlined within this work plan at all times.

This work plan is divided into nine sections and five appendices. The site description and history are presented in Section 2, and project personnel are discussed in Section 3. Section 4 includes the Project Implementation Plan and Scope of Work, which describes all site activities from mobilization through demobilization. The Regulatory Compliance Plan (RCP), including environmental procedures, permitting and approval requirements, and regulatory procedural and training requirements, is presented in Section 5. Section 6 presents the Sampling and Analysis Plan (SAP), including the FSP, and Section 7 is the Quality Assurance Project Plan (QAPP) for project activities. Section 8 includes the project schedule and planned meetings; references are provided in Section 9. The technical specifications for the project are contained in Appendix A. The analytical methods, reporting limits, and QC criteria are provided in Appendix B; the standard operating procedures are presented in Appendix C. The Contractor Quality Control (CQC) Plan is presented in Appendix D, and the health and safety requirements are provided in Appendix E.

2.0 SITE DESCRIPTION AND HISTORY

Site activities for this project consist of removing contaminated soil at SWMU 109, performing sidewall and bottom sampling and analysis, characterizing and disposing of excavated soil, and completing site restoration. A description of Cannon AFB and of the SWMU are provided below. The site history and detailed descriptions of previous site activities have been presented in the previous investigation report (Harza, 1997).

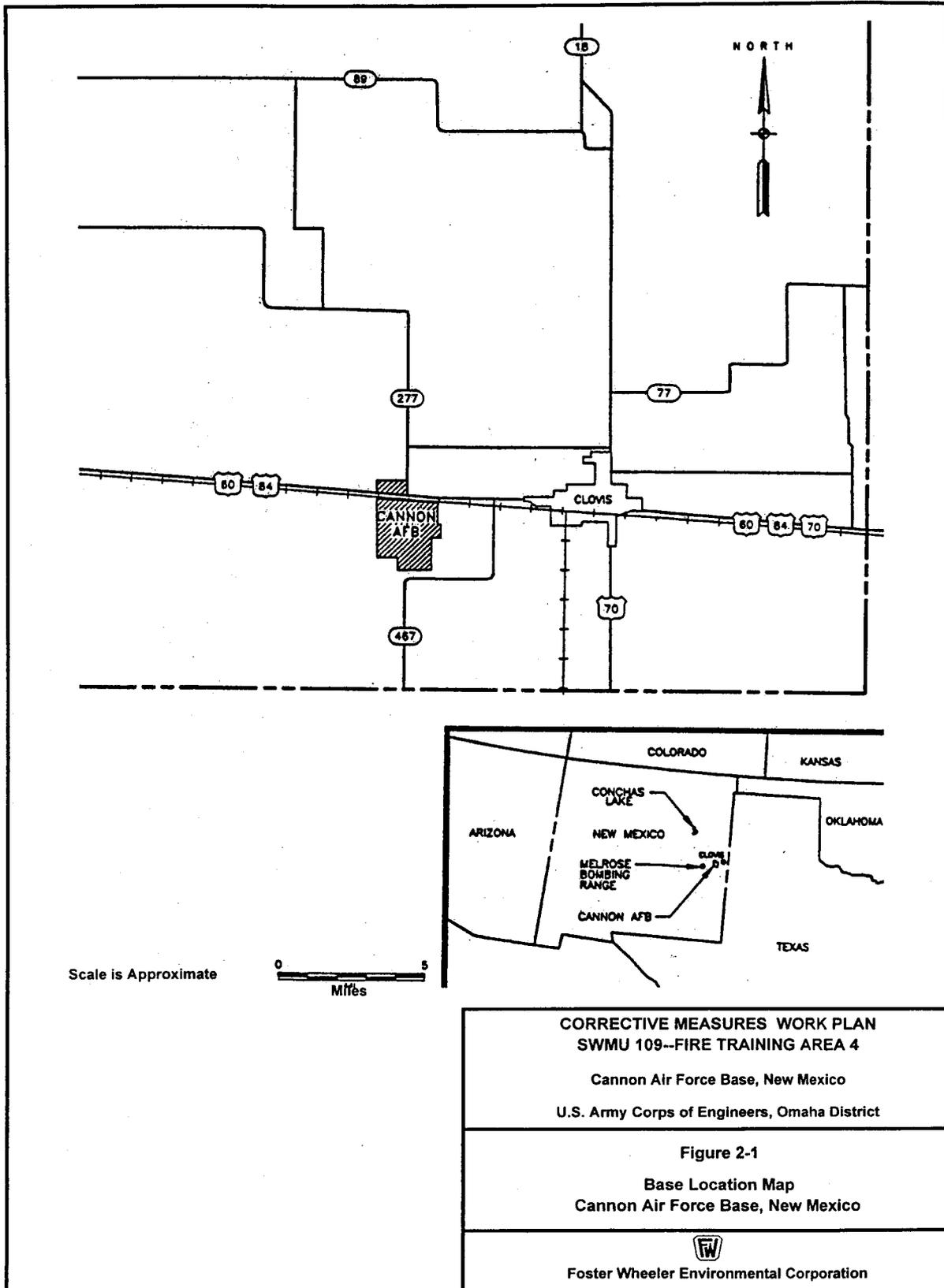
2.1 CANNON AFB LOCATION AND HISTORY

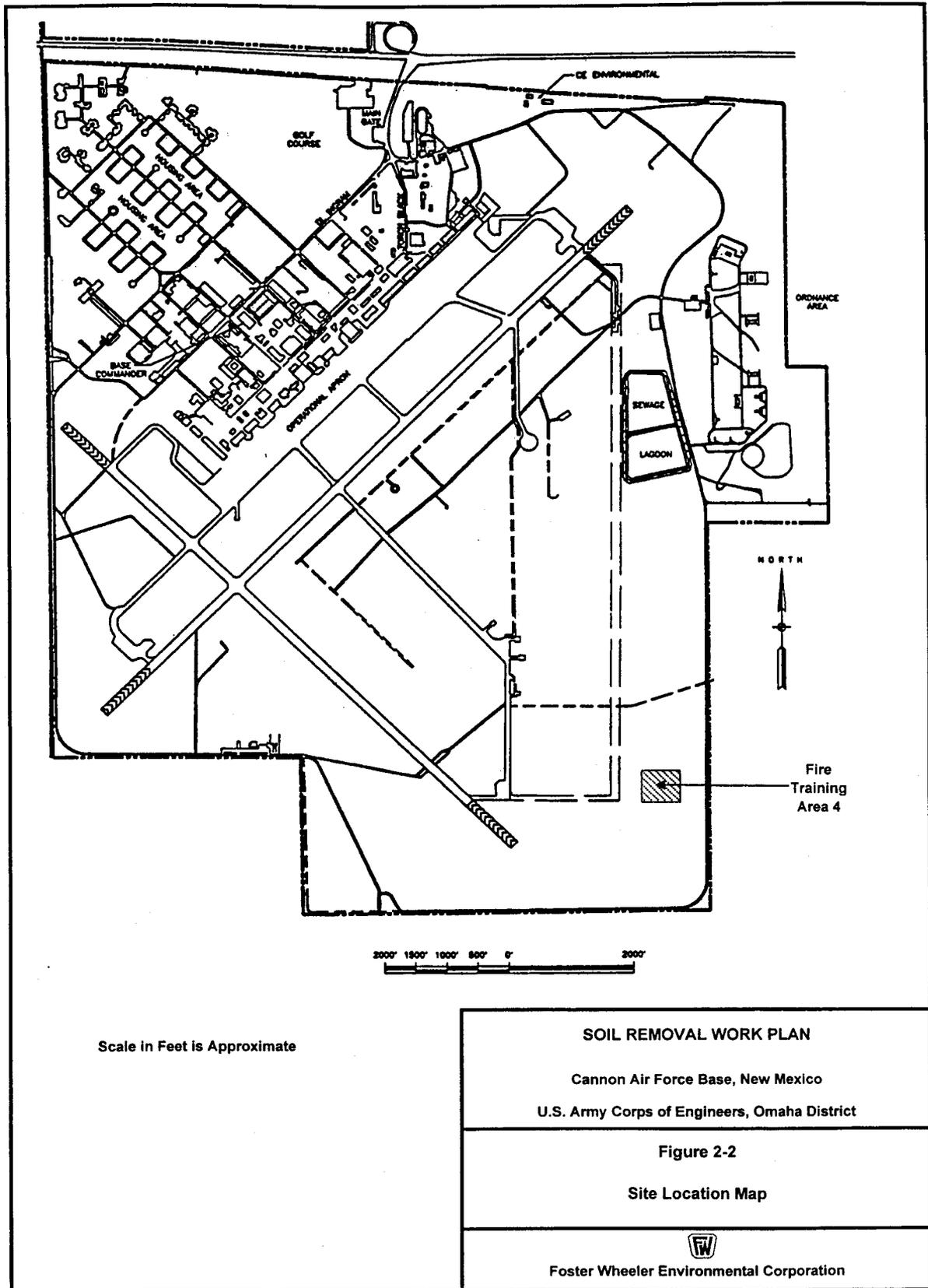
Cannon AFB occupies approximately 4,000 acres south of U.S. Highway 60/84 in Curry County, New Mexico. The Base is situated 6 miles west of the city of Clovis, near the New Mexico–Texas border (Figure 2-1). The area surrounding Cannon AFB is used mainly for farming and ranching. Cannon AFB also maintains several satellite facilities.

In 1942, the Department of Defense established the Clovis Army Air Base, a training facility for B-17, B-24, and B-29 air crews. The Base was renamed Clovis Army Airfield in 1945 and eventually closed in 1947. Reactivated in 1951, the Base was reassigned to the Tactical Air Command and was renamed Cannon AFB in 1957. In 1975, the 27th Tactical Fighter Wing became the principal United States Air Force unit at Cannon AFB. The Base was reassigned to the Air Combat Command in 1992 and currently maintains a combat-ready force and provides replacement training of combat air crews for tactical organizations worldwide.

2.2 SWMU 109 SITE DESCRIPTION AND HISTORY

SWMU 109, the Fire Training Pit, is located near the southeast corner of Cannon AFB, approximately 2,000 ft southeast of the end of Runway 31. Figure 2-2 shows the location of the FTA4 within Cannon AFB. SWMU 109 consists of a concrete-lined pit and berm. A mock airplane was formerly located in the center of the pit and used for fire-training exercises. The pit contains internal drainage features such that excess fuel/water was drained to the oil/water separator (SWMU 112) located in the northeast part of the site. Activities at FTA4 were related to fire-training exercises using JP-4 and other appropriate materials generated by routine maintenance tasks elsewhere at Cannon AFB, such as cleaning engines, painting, and





maintaining aircraft. Reportedly, fuel was introduced to the ground surface between 1961 and 1974 during fire-training exercises. From 1974 to 1975, co-mingled waste oils, solvents, and recovered JP-4 were used at the SWMU. Between 1975 and 1995, only recovered JP-4 had reportedly been used.

2.3 SITE GEOLOGY AND HYDROGEOLOGY

Soils underlying SWMU 109 consist of sandy loam and loamy sand of the Amarillo Soil group. The soils consist primarily of a fine-grained, well-sorted silty/clayey, unconsolidated brown/reddish brown sand. Such soils are generally classified as silty sand to clayey sand under the United Soil Classification System. The near-surface (upper 90 ft) stratigraphy at SWMU 109 consists of Miocene to Pliocene fluvial deposits of the Ogallala Formation. The site is underlain by Ogallala fluvial deposits consisting primarily of well-sorted sand classified as silty sand to clayey sand. The total thickness of these Ogallala deposits beneath the site is not known, as bedrock was not encountered during field investigation activities. Based on available regional information, they may be as thick as 390 ft.

Geologic materials underlying SWMU 109 are relatively homogeneous, consisting of dense; generally brown, tan, or gray, mixture of fine sand, silt, and clay. The granular soils generally are uncemented but contain sporadic caliche layers and more extensive zones containing caliche-cemented nodules.

The lower deposit is field classified as predominantly silty sand with lesser percentages of silt and clay. The material extends from depths between about 6 and 44 ft to the maximum drilled depth (90 ft). Geotechnical testing (grain size and moisture content) was performed on nine samples from this SWMU at depths ranging from 19 to 56 ft. Results indicate that the lower deposit is generally comprised of approximately 55 to 72 percent sand, 14 to 29 percent silt, and 5 to 29 percent clay, with a moisture content ranging from 6 to 14.9 percent.

The upper deposit overlies the silty sands in most locations, extending from the ground surface to depths between approximately 6 and 44 ft, generally averaging about 20 ft. These deposits consist predominantly of silt/clay mixtures with lesser percentages of sand and are more variable in thickness and consistency. Three samples were collected for geotechnical testing from this unit

at depths ranging from 3 to 9 ft. Results indicate that these samples were generally comprised of approximately 30 to 35 percent sand, 17 to 21 percent silt, and 48 to 49 percent clay, with a moisture content ranging from 11.4 to 21.3 percent.

No groundwater was encountered at SWMU 109 to the maximum drilled depth of 90 ft.

Groundwater reportedly occurs at a depth between 240 ft and 295 ft beneath Cannon AFB.

3.0 PROJECT PERSONNEL

A team consisting of Foster Wheeler, USACE, and Cannon AFB will manage the soil removal for this project. This section identifies the key personnel and their roles in the construction phase of the project. The project organization chart is presented in Figure 3-1.

3.1 PROGRAM MANAGER

Mr. Sina Seyedian, P.E., is the Program Manager for the TERC and provides overall management of program activities.

3.2 DELIVERY ORDER MANAGER

Ms. Carol Bieniulis is the Delivery Order Manager (DOM) for this project and reports to the Program Manager. A detailed description of the responsibilities and authority of this position is provided in the CQC Plan, Appendix D.

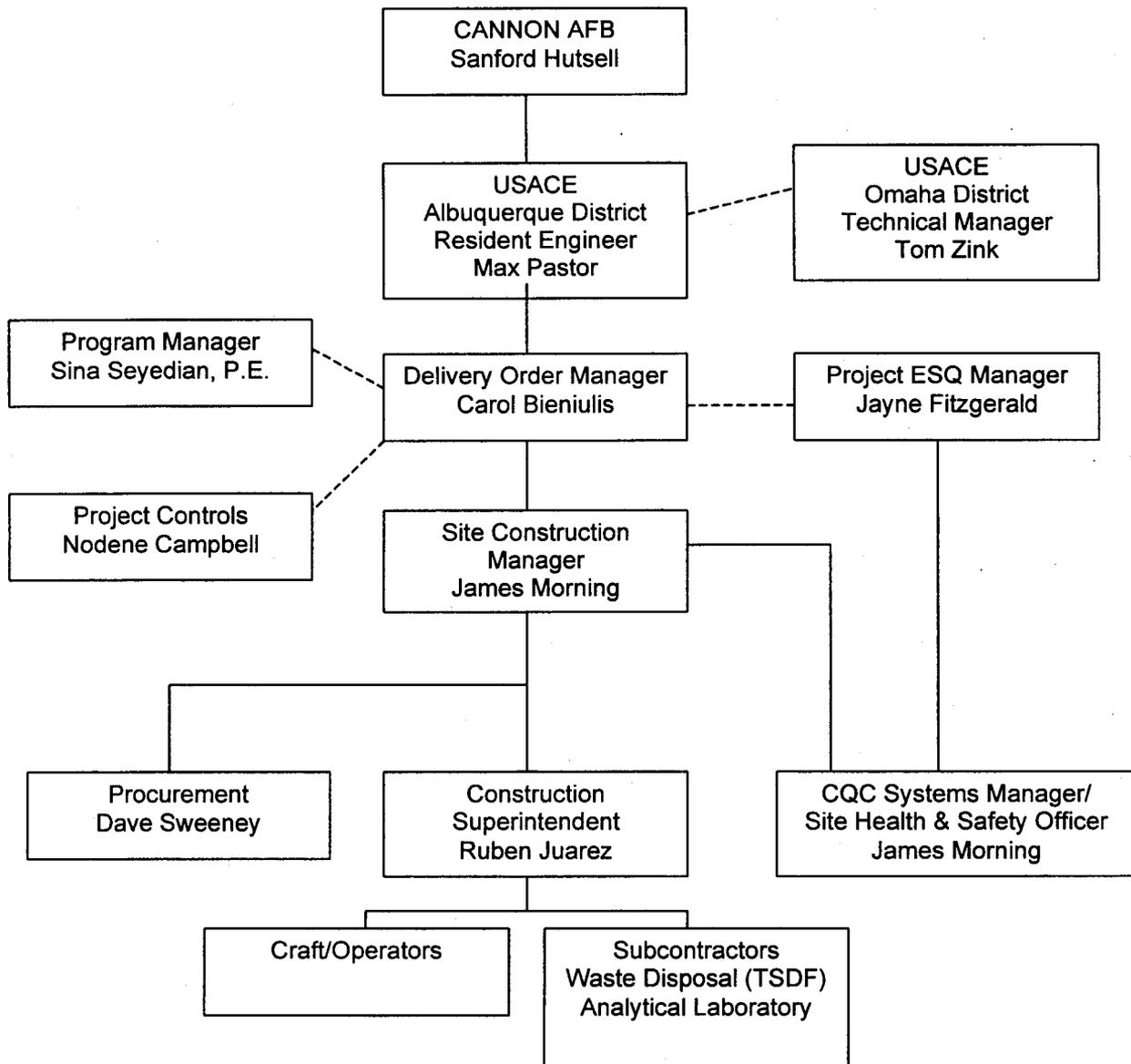
3.3 CONTRACTOR QUALITY CONTROL SYSTEMS MANAGER/SITE HEALTH AND SAFETY OFFICER/SITE CONSTRUCTION MANAGER

Mr. James Morning will be the Site Construction Manager in charge of field operations. He will also act as the project CQC Systems Manager and Site Health and Safety Officer (SHSO). A detailed description of these positions, including responsibilities and authorities, is provided in the CQC Plan, Appendix D.

3.4 PROJECT CHEMIST

Ms. Pam Moss will be the Project Chemist for the chemical analysis effort. Ms. Moss will be responsible for the coordination of project sampling and analysis activities along with the Site Construction Manager. She will also lend technical assistance to field personnel and subcontractors to ensure work is performed in accordance with regulations, professional standards, and client expectations.

Figure 3-1 Project Organization Chart



4.0 PROJECT IMPLEMENTATION PLAN/SCOPE OF WORK

This section provides the details of Base access and site security; on-site activities, including mobilization, excavation activities, and demobilization; and off-site activities.

4.1 BASE ACCESS AND SITE SECURITY

Contractor and subcontractor vehicles will access sites at the Base via the main gate. All vehicles will travel along improved roads and will not enter areas marked as secure without receiving prior clearance. The Foster Wheeler Site Construction Manager, required Foster Wheeler personnel and subcontractors will receive vehicle passes valid for the duration of the project. A valid driver's license, proof of vehicle insurance, and valid vehicle registration will be required to obtain a pass. The site security consists of procedures, structures, and personnel provided by Cannon AFB at the Base perimeter.

4.2 ON-SITE ACTIVITIES

On-site activities will include the following:

- Project kick-off meeting
- Mobilization
- Construction activities
 - Sidewall and bottom sampling and analysis
 - Characterization and disposal of excavated soil
 - Site restoration
- Demobilization
- Field engineering and QC
- Health and safety monitoring

4.2.1 Project Kick-Off Meeting

Foster Wheeler will conduct a project kick-off meeting at the Base or by conference call prior to initiation of construction, with participation from Foster Wheeler, USACE, and Cannon AFB.

The agenda for this meeting will include the following topics:

- Introductions, roles, and responsibilities
- Review Scope of Work

- Construction schedule
- Mobilization logistics
- Coordination of schedules
- Review of quality/health and safety programs
- Pending FCRs
- Effects on construction, completion date, and other aspects of the project
- Other business

The agenda will be formalized prior to the project kick-off meeting.

4.2.2 Mobilization

Mobilization will consist of logistical planning and a personnel orientation meeting prior to start-up of field activities. This meeting will include site-specific health and safety training covering site hazards, procedures, and contents of the SHSP; a review of intended operations; and training on pollution prevention and waste minimization procedures. USACE and/or Cannon AFB personnel will assist Foster Wheeler personnel in staking the areas to be excavated prior to initiation of excavation activities.

4.2.2.1 *Utility Clearance*

Cannon AFB will provide utility clearance for the construction sites. Foster Wheeler will notify Mr. Sanford Hutsell at Cannon AFB a minimum of 7 days prior to mobilization. Mr. Hutsell will obtain the utility clearance for these sites.

4.2.2.2 *Staging and Storage Areas*

Staging and storage areas will be determined at the project kick-off meeting. A staging area identified for excavated soil and a separate storage area will be designated for equipment and supplies.

4.2.2.3 *Miscellaneous Site Preparation*

Construction and health and safety personnel will establish work zones for the project in accordance with the SHSP. The decontamination area for the project will be determined at the kick-off meeting.

4.2.3 Construction Activities

The following subsections describe the major construction activities that will be performed at the excavation areas. Discussions of specific equipment, methods, and procedures are included in the technical specifications, Appendix A.

4.2.3.1 *Excavation/Removal Activities*

A backhoe will be used to remove contaminated soil from the excavation area in SWMU 109. The excavation at SWMU 109 will be a 20-ft-by-20-ft-by-2-ft-deep area around soil boring SB-01. The excavation limits for the area will be measured and recorded on site maps. The excavated soil from the SWMU will then be deposited into a bermed and lined area for storage pending characterization sampling results. Once excavation is complete, sidewall and bottom soil samples will be collected as described in the SAP, Section 6, for laboratory analysis. Prior to backfilling, the excavated areas will be taped and barricaded.

Upon receipt of the characterization sampling results, Foster Wheeler will determine disposal options for the excavated soils. Uncontaminated, clean soil will be used as backfill for the excavated area in SWMU 109; backfill will be mechanically compacted to meet the specified 90 percent (Standard Proctor) compaction criteria prior to revegetation.

4.2.3.2 *Segregation of Materials*

It is anticipated that excavated soil will be placed directly into a bermed and lined area and stored until disposition is determined by characterization sampling and analysis. Once the excavation is complete, the volume of material on the bermed and lined area will be estimated by hand survey and recorded.

4.2.3.3 *Backfill*

Following approval from USACE and Cannon AFB, the excavation shall be backfilled with acceptable soil compacted to 90 percent (Standard Proctor) or clean, gravel-base course material. Clean, gravel-base course material will be placed at SWMU 109. Clean earth and gravel-base course material may be imported from an off-site source. The backfill materials will be brought above grade and sloped away from the excavation center.

4.2.3.4 *Site Restoration Activities*

Site restoration activities at the excavated areas consist of backfilling and grading activities as described in Section 4.2.3.3. All debris related to construction activities will be removed and properly disposed of.

4.2.4 Demobilization

Demobilization activities will include equipment decontamination, site cleanup, disposal, personnel and equipment demobilization, and organization of field records. The Site Construction Manager will ensure that the excavation area has been returned to preconstruction conditions and will then fill out the certification of completion.

4.2.5 Field Engineering and Quality Control

Field engineering and QC include engineering and QC inspection. Field engineering will be performed under the direction of the Site Construction Manager. In accordance with the CQC Plan (Appendix D), required QC inspections will be conducted and FCRs, Design Change Notices, and nonconformance reports will be generated when discrepancies concerning constructed elements and associated drawings and specifications occur. In addition, a DQCR documenting each day's construction activities will be completed and maintained and the approximate locations of the excavation limits will be incorporated into the as-constructed drawings.

4.2.6 Health and Safety

Health and safety activities will be conducted in accordance with the SHSP (Appendix E); Foster Wheeler Environmental Corporate Health and Safety Program; USACE Safety and Health Requirements Manual (EM 385-1-1) (1992); and USACE Appendix B, Safety and Occupational Health Requirements Manual (ER 385-1-1). The Site Construction Manager will ensure implementation of these programs and procedures, and all employees will be responsible for complying with these documents.

4.3 OFF-SITE ACTIVITIES

The Task Manager will oversee the coordination of the project from the Foster Wheeler office in Denver, Colorado. The Foster Wheeler home-office staff in Denver, Colorado, will provide all

off-site engineering services. The Site Construction Manager will serve as the point of contact for all field inquiries regarding engineering and will coordinate engineering efforts in compliance with Foster Wheeler corporate procedures and applicable professional standards.

Home-office staff will procure subcontractors and major work items and will furnish the following support functions:

- Regulatory Compliance—Compliance with permits and regulatory requirements will be overseen by the Regulatory Compliance Specialist as described in the RCP, Section 5 of this work plan.
- Safety Compliance—The Project Environmental Safety Manager (PESM) will receive regular reports from the Site Construction Manager/SHSO during field activities.

Technical specifications (Appendix A) have been prepared to describe the general requirements for submittals, temporary facilities and utilities, dust control, erosion and sediment control, project record documents, project record drawings, and earthwork.

5.0 REGULATORY COMPLIANCE PLAN

The RCP was specifically developed to identify regulatory requirements applicable to the removal and disposal of contaminated soil generated during the excavation activities at SWMU 109. The RCP details the corrective action requirements, waste management practices, documentation, and training requirements that are necessary for these activities. In addition, the RCP provides guidance regarding waste minimization practices to be followed during the project to reduce the volume of waste generated, stored, and removed from the site for disposal.

5.1 REGULATORY FRAMEWORK

Pursuant to the requirements of their RCRA permit, Cannon AFB is actively conducting corrective action activities for SWMUs identified at the Base. EPA has authorized NMED to implement the RCRA program and NMED oversees corrective-action program activities conducted in accordance with the Base's RCRA permit.

5.2 REGULATED SITE ACTIVITIES

The corrective action for SWMU 109 involves the excavation of contaminated soil from FTA4. Previous investigations of the SWMU have indicated the presence of various contaminants, including certain VOCs, SVOCs, and TRPH. Following excavation, the areas will require sidewall and bottom sampling and analysis and site restoration. A more detailed discussion of the SWMU characteristics and the specific corrective action activities to be implemented during the project is presented in Section 4 of this work plan, and the contaminant distribution at SWMU 109 is summarized in Sections 2.2 and 2.3.

The anticipated regulated activities are as follows:

- Excavating and storing contaminated and potential RCRA hazardous waste and petroleum-contaminated soil (PCS) material
- Sampling and analysis of excavated soil for subsequent characterization, management, and disposal purposes
- Identifying appropriate transportation companies and disposal facilities for hazardous waste and/or New Mexico-regulated special wastes (i.e., PCS)
- Completing documentation and labeling and placarding waste containers for transporting the waste to an appropriate disposal facility

5.3 REGULATORY REQUIREMENTS

Project activities can be expected to generate nonhazardous waste, NMED-regulated special waste, and possibly RCRA hazardous wastes. The following federal and state regulations are therefore applicable and must be complied with during implementation of planned project activities:

- EPA Regulations for Identification and Management of Hazardous Waste, Title 40 of the Code of Federal Regulations (CFR) Parts 2601–299
- Department of Transportation (DOT) Rules For Hazardous Materials Transport, 49 CFR Parts 100–178
- New Mexico Hazardous Waste Management Regulations
- New Mexico Air Quality Control Regulations
- Applicable Cannon AFB permits, policies, and procedures

Appropriate best management practices will be followed to control runoff and to minimize fugitive dust emissions during closure activities.

5.4 WASTE MINIMIZATION

To minimize the volume of waste, contaminated materials will not be unnecessarily commingled with uncontaminated materials. When practicable, material and equipment will be decontaminated and reused. Volume reduction techniques will also be used.

5.5 PROJECT WASTE DESCRIPTIONS

The potential waste streams associated with soil removal at SWMU 109 can be categorized as follows:

- Contaminated soil
- Uncontaminated soil
- Decontamination fluids
- Personal protective equipment (PPE)

Table 5-1 presents a summary of the applicable waste management, transportation, and disposal requirements for each of the above waste streams.

Table 5-1 Waste Management Summary

Waste Type	Characterization Requirements	Applicable Regulations	Allowable Containment	Storage Requirements	Transportation Requirements	Disposal Requirements
Excavated Soil	<p>Excavated soil will be characterized to determine if it is a RCRA hazardous waste or a NMED special waste.</p> <p>A representative sample will be taken from each rolloff bin or stockpile containing excavated soil. Analysis may include ignitability, TCLP metals, VOCs, PCBs and pesticides, and TRPH. Existing soil analytical data for the SWMUs will be reviewed and may be substituted for one or more of these analyses.</p>	<p>20 NMAC 4.1 "Identification & Listing of Hazardous Waste" and "Standards Applicable to Generators of Hazardous Waste"</p> <p>40 CFR 268.48—LDR-UTS</p> <p>40 CFR 262—Generator Requirements</p> <p>20 NMAC 9.1 Special Waste Requirements</p>	<p>Hazardous waste: Rolloffs or lined berms must be kept sealed when not being loaded or unloaded.</p> <p>Special Waste: Store in rolloff or lined-bermed unit meeting NMED requirements.</p>	<p>Hazardous Waste: 90-day storage limit if determined to be a hazardous waste and must be labeled with a completed hazardous waste label.</p> <p>Special Waste: PCS: Maximum on-site storage for PCS special waste is 45 days.</p> <p>NOTE: Storage clock starts from the date that waste is first put into the container.</p>	<p>Hazardous Waste: Hazardous waste manifest, DOT placarding. Must use an EPA-permitted transporter.</p> <p>Must also have LDR certifications as necessary.</p> <p>Special Waste: PCS shipped offsite must be accompanied by a NMED special waste manifest. Containers must be labeled indicating contents and the potential health, safety, and environmental hazards associated with the waste.</p> <p>NOTE: Individuals involved in overseeing or shipping hazardous materials must meet HM-181 & HM-126F training requirements.</p>	<p>Hazardous Waste: Must be disposed of at an approved RCRA TSDF.</p> <p>PCS special waste can be disposed of only in an approved off-site solid waste facility authorized for special wastes.</p> <p>PCS special waste containing free liquid cannot be sent to a landfill and must pass the paint filter test before it can be landfilled.</p> <p>NOTE: Foster Wheeler ESQ and Cannon AFB must approve TSDF and transporter prior to shipment of waste.</p>
Decontamination Water	<p>Decon water will be characterized using the analytical data from associated soil samples. If necessary, a representative sample will be taken from accumulation container or portable tanks. Analysis may include metals, VOCs, PCBs and pesticides, and SVOCs.</p>	<p>20 NMAC 4.1 "Identification & Listing of Hazardous Waste" and "Standards Applicable to Generators of Hazardous Waste"</p> <p>40 CFR 268.48—LDR-UTS</p> <p>40 CFR 262—Generator Requirements</p> <p>WQCC 82-1, Part 3-103</p>	<p>DOT-approved 55-gallon (bunghole-type) metal drums (1A1) or DOT-approved portable tanks (DOT 51, 52, 53, 56, 57, and 60) that must be sealed when not being filled.</p>	<p>Hazardous Waste: 90-day storage limit if determined to be a hazardous waste and must be labeled with a completed hazardous waste label.</p> <p>NOTE: Storage clock starts from the date that waste is first put into the container.</p>	<p>Hazardous Waste: Hazardous waste manifest, DOT placarding. Must use an EPA-permitted transporter.</p> <p>Must have LDR certifications as necessary.</p> <p>NOTE: Individuals involved in overseeing or shipping hazardous materials must meet HM-181 & HM-126F training.</p>	<p>Hazardous Waste: Must be disposed of at an approved off-site RCRA TSDF.</p> <p>If not a hazardous waste and meets groundwater discharge standards, can discharge to the ground with approval of NMED.</p> <p>If aboveground discharge levels, water may be disposed of, with authorization, to one of the Base's WWTFs.</p>

Table 5-1 Waste Management Summary (Continued)

Waste Type	Characterization Requirements	Applicable Regulations	Allowable Containment	Storage Requirements	Transportation Requirements	Disposal Requirements
Disposable PPE	Decontaminated PPE will be handled as solid wastes and no analysis is required.	20 NMAC 9.1 Solid Waste Management Regulations 20 NMAC 4.1 "Identification & Listing of Hazardous Waste" and "Standards Applicable to Generators of Hazardous Waste" 40 CFR 268.48—LDR-UTS 40 CFR 262—Generator Requirements	Double bagged in plastic bags.	N/A	N/A	Nonhazardous solid waste to be disposed of at an approved solid waste landfill. NOTE: Foster Wheeler ESQ and Cannon AFB must approve TSDF and transporter prior to shipment of waste.

NOTES:

- AFB Air Force Base
- CFR Code of Federal Regulations
- DOT Department of Transportation
- EPA United States Environmental Protection Agency
- ESQ Environmental Safety and Quality
- HM Hazardous material
- LDR Land disposal restriction
- N/A Not applicable
- NMAC New Mexico Administrative Code
- NMED New Mexico Environment Department
- PCBs Polychlorinated biphenyls
- PCS Petroleum-contaminated soil
- PPE Personal protective equipment
- RCRA Resource Conservation and Recovery Act
- SVOCs Semivolatile organic compounds
- SWMU Solid waste management unit
- TCLP Toxicity Characteristic Leaching Procedure
- TPH Total petroleum hydrocarbons
- TRPH Total recoverable petroleum hydrocarbons
- TSDF Treatment, storage, and disposal facility
- UTS Universal treatment standards
- VOC Volatile organic compound
- WQCC Water Quality Control Commission
- WWTF Wastewater treatment facility

5.6 WASTE MANAGEMENT ACTIVITIES

This section describes in detail how waste generated during soil removal activities will be characterized and classified.

5.6.1 Waste Characterization/Classification

To determine proper waste management requirements for waste generated during soil excavation, waste characterization is necessary. All waste streams will be sampled and/or characterized in accordance with 40 CFR 262.11 and New Mexico Solid Waste Management Regulations (20 New Mexico Administrative Code [NMAC] 9.1) relating to PCS. These regulations require the generator to determine whether a solid waste is a listed or characteristic hazardous waste or a New Mexico special waste. To meet these testing requirements, representative samples will be collected and analyzed in accordance with federal and New Mexico Hazardous Waste Management Regulations and Solid Waste Management Regulations.

Wastes are determined to be characteristically hazardous on the basis of their chemical constituents or physical properties. Listed wastes are specifically identified in 40 CFR Part 261, Subpart D. Characteristic hazardous wastes are those wastes that exhibit toxicity in excess of the values indicated in 40 CFR Part 261, Subpart C. An exceedance of a toxicity characteristic is generally determined by comparing the constituent concentration of the waste to listed Toxicity Characteristic Leaching Procedure (TCLP) regulatory levels.

Documentation of all proposed waste classifications will be provided to Cannon AFB for final waste stream characterizations. The Base is responsible for making all final waste characterizations and for signing waste manifests.

5.6.2 Hazardous Waste Management

RCRA Subtitle C and the New Mexico Hazardous Waste Management Regulations (20 NMAC 4.1) govern hazardous waste management from the point of generation through storage and treatment (if necessary) to ultimate disposal. The NMED Hazardous Waste Bureau oversees management of the hazardous waste program in New Mexico.

Hazardous waste management must comply with the following requirements:

- Hazardous waste must be managed in accordance with 40 CFR Part 262, Standards Applicable to Generators of Hazardous Waste.
- Hazardous waste transported off site must be manifested in accordance with 40 CFR Part 262, Subpart B, Manifests, and accompanied by land disposal restriction (LDR) certification notices as per 40 CFR 268.7, Waste Analysis and Recordkeeping.
- Hazardous waste must be stored in accordance with 40 CFR Part 265, Subpart I, Use and Management of Containers.
- All containers of hazardous waste to be stored or disposed will be clearly marked with a completed hazardous waste label indicating the starting date of accumulation, EPA identification number, EPA waste code, etc., and DOT markings.
- Hazardous waste may be stored on site for a maximum of 90 days. The 90 days begin on the date that the waste is first generated and containerized (i.e., that day the first drop of waste is placed in a container).
- Hazardous waste must be disposed only at a hazardous waste disposal facility permitted for the disposal of the particular type of hazardous waste generated.

5.6.3 New Mexico Special Waste Management

New Mexico Special Waste Regulations are found in 20 NMAC 9.1. Management of special wastes is under the control of the NMED Solid Waste Bureau.

With regard to this project, New Mexico special wastes are defined as solid wastes, including PCS, that have unique handling, transportation, or disposal requirements necessary to ensure protection of the environment and the public's health and safety.

New Mexico has generally defined PCS as special waste if the TRPH concentration is greater than 1,000 ppm and/or benzene is greater than 10 ppm. Special wastes must comply with the following requirements:

- Special wastes must be treated prior to disposal and/or isolated in their disposal to ensure a minimum of exposure to the public.
- All special wastes must be disposed only at solid waste facilities permitted for disposal of special wastes.
- All special wastes must be manifested in accordance with Section 712 of the New Mexico Special Waste Requirements Regulations.
- Storage of special wastes will occur only at an approved special waste storage area in a rolloff or bermed area containing an impermeable membrane liner. Special wastes will not be stored longer than 45 days, unless approved in advance by NMED.

- All containers of special wastes to be stored or disposed will be clearly labeled, indicating the contents and potential health, safety, and environmental hazards associated with the waste.
- The physical and chemical characteristics of all special wastes will be documented prior to storage, transportation, or disposal, by the following:
 - Records of the results of analysis performed in accordance with Section 704 as applicable
 - Detailed descriptions of the generator's knowledge of specific wastes.

Transporters of any type of regulated special waste must be registered with the NMED Solid Waste Bureau.

5.6.4 Waste Containerization and Storage

DOT-trained personnel will select containers based on type and quantity of waste to be generated. Containers may include either DOT-specification drums or rolloffs for regulated hazardous material. DOT-specification containers are not required for material that does not meet a DOT hazard class (e.g., PCS, which may be transported in a dump truck).

Prior to starting closure activities, the Foster Wheeler Site Construction Manager will, in conjunction with Cannon AFB personnel, select areas for the temporary staging and storage of excavated materials, decontamination fluids, and PPE.

Waste material must be classified according to EPA and DOT criteria before the labels are applied. Upon classification, each container will be marked and labeled as required by EPA and DOT, if applicable. Trained personnel will conduct all DOT functions as required by 49 CFR Part 172, Subpart H.

At the time of generation, all waste containers will be labeled, using indelible ink, with the following information:

- Source and location
- Contents and quantity of material in the container
- Potential health, safety, and environmental hazards
- Accumulation start date (the date the first drop of material was put in the container)
- Date container sampled

- Parameters analyzed

Containers determined to contain hazardous waste will immediately be labeled with a completed commercial EPA "HAZARDOUS WASTE" label, which will include the accumulation start date and other requested information.

Excavated soil stockpiles containing confirmed PCS will be labeled using the following format:

"Petroleum-Contaminated Soil"
Origin: Soil Excavation—Petroleum Hydrocarbons
Contaminated Soil—Gasoline, Diesel, Jet Fuel (whichever applies)
Concentration: _____ parts per million TRPH

All hazardous waste stored in drums will also be stored on wooden pallets and subsequently transported off site or to the Cannon AFB Defense Reutilization and Marketing Office. An inventory of waste containers will be maintained for later submittal to and inspection by both USACE and Cannon AFB personnel.

Containers of hazardous waste will be inspected and logged weekly while the field work is in progress. Inspections will encompass evaluation for proper labeling, secure closure, condition of each container, number of containers, and condition of the storage area. Any signs of deterioration, leaking, or dents will be noted, and containers will be immediately overpacked, if necessary. Inspection results will be provided to the USACE and Cannon AFB.

5.7 REPORTING SPILLS AND RELEASES

Precautions will be taken to prevent oil and hazardous material spills, including daily inspection by the site personnel of equipment, structure(s), and containers. Personnel using hazardous materials will inspect containers before and after use. In the event of a spill/release, the Site Construction Manager will notify the Cannon AFB Fire Department and the USACE. Spill response will be conducted in accordance with federal, state, local, and Cannon AFB regulations. Emergency response procedures are specified in the SHSP (Appendix E).

The following chain of communications will be used in case of a spill:

- Mr. James Morning has been designated as the Foster Wheeler Spill and Release Reporting Site Representative. In the event of a spill or release, Mr. Morning will

immediately notify Mr. Sanford Hutsell, Cannon AFB (505-784-6378); Mr. Max Pastor, USACE (505-784-4350); and the Base Fire Department (505-784-2578).

- Site personnel must contact the Foster Wheeler Task Manager. In addition, the Task Manager must immediately contact the Regional Environmental, Safety, and Quality (ESQ) Manager and DOM:
 - Foster Wheeler Task Manager: Charley Haddock
Telephone: (303) 980-3533
Facsimile: (303) 980-3539
 - Foster Wheeler Regional ESQ Manager: Jayne Fitzgerald
Telephone: (714) 444-5500
Facsimile: (714) 444-5560
 - Foster Wheeler DOM: Carol Bieniulis
Telephone: (505) 878-8924
Facsimile: (505) 878-8933

5.8 TRAINING/CERTIFICATION REQUIREMENTS

This section presents the DOT training and certification requirements for personnel involved in the remediation project. In addition to the DOT training, employees will be trained in Foster Wheeler's waste management and environmental compliance policies and procedures to ensure that they are familiar with the program. These policies and procedures meet Department of Justice requirements for a sound environmental management program. The Occupational Safety and Health Administration training and certification requirements are contained in the SHSP (Appendix E).

All personnel who perform or oversee DOT-related activities will be DOT trained. DOT training records will be maintained in project files on site. Foster Wheeler's Corporate ESQ Department will also maintain a copy of the DOT training records.

5.9 INSPECTION PROCEDURES

The following section describes inspection procedures to be followed by field personnel in the event of a regulatory-agency or third-party on-site inspection.

5.9.1 Inspections by Regulatory Agencies and Third Parties

Foster Wheeler personnel will respond to inspections by regulatory agencies and third parties in accordance with the company's environmental compliance procedure No. EHS 1-10 External Inspections. The Site Construction Manager, Mr. James Morning, is designated as the Foster Wheeler on-site representative during inspections by regulatory agencies. Mr. Morning has received training on this procedure and is familiar with its implementation. In the event that Cannon AFB is notified of an impending regulatory inspection, the Base personnel will notify Mr. Morning as soon as possible. During any inspection, both a Base and USACE representative should be present. The Foster Wheeler procedures for external inspections also require that the Site Construction Manager notify the PESH.

5.10 DOCUMENTATION AND RECORDS RETENTION

This section presents project requirements relating to documentation and records and their retention.

5.10.1 Documentation

The information contained in this section applies to all waste managed during project activities. Field records will be kept in a bound, numbered field logbook. Information to be recorded includes, but is not limited to, the following:

- Description of waste-generating activities
- Location of waste generation (including depth, if applicable)
- Type of waste
- Date and time of generation
- Name of person recording information
- Name of field manager at time of generation and at time of disposal
- Test results

In addition, the following information will be placed in the project files:

- Inspection logs
- Waste documentation, including:
 - Waste profile sheets
 - LDR certification

- Hazardous waste manifest
- Trip tickets or bills of lading
- Copies of any state or local permits or approvals

5.10.1.1 *Transportation*

Transportation documentation will comply with DOT regulations 49 CFR Parts 100–178 and will be prepared by appropriately trained Foster Wheeler personnel. Containers will be marked, labeled, and/or placarded prior to off-site transport. Foster Wheeler personnel will prepare the treatment, storage, and disposal facility (TSDF) waste profile sheets, LDR notifications, waste manifests, and shipping documents for Cannon AFB officials to review and sign. All waste transporters will be registered with NMED and approved by the Base and be in accordance with Foster Wheeler procedures for TSDF and transporter approvals.

5.10.1.2 *Hazardous and Special Waste Manifests and LDR Certification*

All hazardous waste transported from the site will be accompanied by a Hazardous Waste Manifest. New Mexico does not provide a standard state manifest, so the receiving state manifest must be used. If the receiving state does not have a state manifest, a Uniform Hazardous Waste Manifest may be used. Cannon AFB personnel will be responsible for reviewing and signing all waste documentation, including waste profiles, manifests, and LDR notifications (manifest packages). Prior to signing the manifest, the designated Cannon AFB official will ensure that pretransport requirements of packaging, labeling, marking, and placarding are met according to 40 CFR 262.30–262.33 and 49 CFR Parts 100–177.

For special waste, a manifest containing the following information will accompany each load of special waste originating from or to be disposed in New Mexico, as specified in Section 702.C:

- Name, address, and telephone number of the generator
- Name, address, and telephone number of any and all transporters in the order each will be transporting the waste
- Name, site address, telephone number, and identification number of the solid waste facility to which the waste is to be delivered
- Type and proper name of waste being shipped
- Total weight or volume of waste prior to shipment from generator

- Total weight or volume of waste received at the solid waste facility
- Type and number of containers in shipment
- Any special handling instructions
- Date and location the waste was delivered

If more than one transporter is used, each transporter will provide the date of receipt and total weight or volume of waste received from the previous transporter.

The manifest will be signed by the Cannon AFB personnel, each transporter of the special waste, and the solid waste facility operator. All signatories will be duly authorized agents of their organizations. Significant discrepancies will be reported to the NMED Solid Waste Bureau within 24 hours of discovery. Cannon AFB will receive one copy of the manifest; the remaining copies will be given to the transporter. The manifest will be returned to the Cannon AFB signatory official to be placed on file. Copies of all manifests for waste generated at the site will also be kept in a central project file. A copy of the manifest will be sent to the state by Cannon AFB.

An LDR form will accompany the shipment of hazardous waste to the TSDF. The TSDF must be notified prior to sending the waste. The following items must accompany the notification and are included in one of the following facility specific forms:

- EPA and New Mexico Hazardous Waste Generator identification number (provided by Cannon AFB)
- Manifest number, including state disposal application number
- Waste analysis data
- If the waste is also restricted, corresponding concentration-based or technology-based treatment standards or prohibition

5.10.2 RCRA Records Retention

The designated Cannon AFB manifest signatory official will be responsible for ensuring that all RCRA record-keeping requirements are met according to 40 CFR 262.20–262.44, including retention of signed copies of manifests from the designated facility that received the waste. The copy must be maintained for a period of at least 3 years from the date the waste was accepted by the initial transporter. Additionally, biennial and exception reporting must be submitted, as

necessary, according to 40 CFR 262.41 and 262.42, respectively. Additional reporting may be required, according to 40 CFR 262.43.

5.11 UPDATING THE REGULATORY COMPLIANCE PLAN

The RCP will be updated if changes in site activities or changes in applicable regulations occur.

6.0 SAMPLING AND ANALYSIS PLAN

The SAP has been developed according to USACE and EPA Region 6 requirements and provides an overview of the sampling program, methodologies, objectives, equipment, and procedures.

This SAP specifically outlines the constituent sampling and analytical procedures/methodologies that will be used to verify that hazardous constituents have been removed and to characterize the excavated soil for disposal. The SAP prepared for these sites is intended to be used in tandem with the QAPP (Section 7) to provide specific rationales, protocols, and methodologies to be employed when performing field sampling or data collection activities during the project.

The SAP is divided into five sections. Sections 6.1 and 6.2 describe field sampling objectives and summarize the sampling and analysis program, respectively. Section 6.3 discusses data collection information. Sections 6.4 and 6.5 outline project sampling procedures and field measurements.

6.1 SAMPLING OBJECTIVES

Field sampling will be performed to (1) identify residual concentrations of VOCs and TRPH in the soil after excavation activities have been completed and (2) characterize soil generated during excavation activities to determine appropriate management and disposition. The FSP is designed to meet project objectives associated with the removal of contaminated soil to obtain site restoration at SWMU 109.

Specifically, the FSP will be used to generate analytical data for soil samples collected during remedial activities to ensure the following:

- Analytical quantitation limits are sufficient to enable detection of potential contaminants of concern at concentrations sensitive to human health and ecological concerns
- Site restoration can be achieved and performed in a safe manner
- Soil collection, containment, storage, transport, and discharge activities are in compliance with all federal, state, and local regulatory agency requirements

6.2 SUMMARY OF SAMPLING AND ANALYSIS PROGRAM

The analytical parameters for the field screening, confirmation, and waste characterization soil samples were selected based on the results of the Phase II RFI (1996) for SWMUs 109, 110, 111,

and 112 (Harza, 1997), which identified TRPH and VOCs as contaminants at SWMU 109. ENSYS PETRO RISC® Soil Test System, EPA Method 4030, will be used to conduct field screening for total petroleum hydrocarbons (TPH) during the soil excavation activities. Soil samples will be collected from the excavated area and analyzed by the off-site laboratory to confirm TRPH below the 1,000-mg/kg action level. One waste characterization sample will be analyzed to support waste disposal activity.

Table 6-1 summarizes the number of samples to be collected for the CMS and the associated analytical parameters for this project. A discussion of the sampling program is provided in Section 6.3.

Table 6-1. Cannon AFB Corrective Measures Study Sampling and Analysis Program

Matrix	Sample No.	TRPH	VOCs	TCLP VOCs	Ignitability
SWMU 109					
Soil	5	5	5	NA	NA
Soil-Field Dup	1	1	1	NA	NA
Soil-Waste Characterization	1	1	NA	1	1

Notes:

- TRPH Total recoverable petroleum hydrocarbon
- VOCs Volatile organic compounds
- TCLP Toxicity Characteristic Leaching Procedure— volatile organics, semivolatile organics, pesticides, herbicides, metals
- NA Not applicable

6.3 DESIGN OF DATA COLLECTION OPERATIONS

This section addresses project-specific requirements related to the location and frequency of sampling. Sample nomenclature to designate the various samples that will be acquired in the field is also detailed.

6.3.1 Sample Locations and Frequency

Five soil samples will be collected from the excavated trench (at least 2 ft below ground surface) to verify the concentration of TRPH is below the 1,000-ppm action level and to identify any VOCs remaining in the excavated area. One random grab sample will be collected from each of

the trench sidewalls and the bottom at 0 to 2 ft below the excavated area using a stainless steel trowel. Encore samplers will be used for VOC sample collection, if possible. If Encore samplers cannot be used, VOCs will be collected using the methanol field preservation technique. One field duplicate sample will be collected. The construction drawings to be provided in the final letter report will show the sample locations. The SOPs presented in this work plan (Appendix C) will be used in collecting the necessary data.

6.3.2 Sample Designation

The following sample nomenclature will be used for designating environmental samples:

Installation	XXX	AA	NN
Cannon	SWMU Identification	Sample Matrix	Sequential Sample Number

Allowable nomenclature for this project is limited to the following:

- Installation: Cannon AFB (C)
- XXX: 109
- AA: Sidewall soil (SS)
- NN: 01, 02, 03, etc.

The following is an example of the sample numbering system:

A soil sample collected from the excavation at SWMU 109 sidewall would be identified as C109SS01.

Duplicate samples will be given a unique sequential sample number and will be submitted to the laboratory as blind QC samples. The field logbook will note the sample designated for duplicate analysis.

6.4 DISPOSAL CHARACTERIZATION SAMPLING AND ANALYSIS

The following sections discuss characterization sampling and analysis needs for the potential waste streams resulting from excavation activities. Excavated soil will be sampled as indicated, and samples will be analyzed for the parameters specified in Table 6-1. The soil will be classified as either a hazardous or nonhazardous waste. Sampling and analysis will be performed

in accordance with the latest revision of EPA SW-846, Test Methods for Evaluating Solid Waste, Third Edition (EPA, 1986) and updates.

6.4.1 Characterization of Decontamination Water

Decontamination water generated during the excavation activities will be characterized using the analytical data from the confirmation soil samples. If analytical results from the soil samples indicate that there is a potential for the decontamination water to be characterized as hazardous, the water will be sampled and analyzed for TCLP VOCs, ignitability, and TRPH.

6.4.2 Characterization of Contaminated Soils

Excavated soil from the SWMU will be placed and stored on a bermed and lined area until disposal options are determined based on the characterization analysis. One composite sample will be generated from the bermed and lined area by randomly collecting a backhoe bucket sample. Soil will be collected randomly from the material contained in the center of the backhoe bucket using a stainless steel trowel, composited in a stainless steel bowl, placed in appropriate sample containers, labeled, and documented on chain-of-custody (C-O-C) records. The composite soil samples will be packaged, stored, and analyzed in accordance with appropriate requirements specified in this SAP, EPA SW-846, and the USACE-Omaha District General Chemistry Supplement to the Scope of Services for Studies (January 1996).

The SWMU 109 characterization soil sample will be analyzed for TCLP VOCs, ignitability, and TRPH.

Waste characterization analysis will be appropriate to determine disposal at an approved TSDF.

6.5 SAMPLING EQUIPMENT AND PROCEDURES

The following SOPs contained in Appendix C will be followed to collect samples:

SOP C1	Wet Decontamination Methods
SOP C2	Photoionization Detectors
SOP C3	Soil Sampling
SOP C4	Soil Stockpile Sampling
SOP C5	Sample Handling and Documentation

7.0 QUALITY ASSURANCE PROJECT PLAN

This QAPP has been prepared to follow the format provided in the General Chemistry Supplement to the Scope of Services for Studies (USACE, 1996). The “A” designations following the section heading number correspond to the designation found in the above-referenced document.

7.1 (A2) TABLE OF CONTENTS

The Table of Contents for the QAPP is contained within the Table of Contents for this work plan.

7.2 (A3) DISTRIBUTION LIST

The distribution list is indicated on the transmittal letter for the submittal of this work plan.

7.3 (A4) PROJECT ORGANIZATION AND RESPONSIBILITIES

Ms. Pam Moss (Foster Wheeler) will be the Project Chemist. In this capacity, she will be responsible for oversight of laboratory performance and for validation of the analytical data prior to disposition of the waste. EMAX Laboratories, Inc. will provide analytical services. Ms. Kam Pang (EMAX) will be responsible for the overall performance of the laboratory and the implementation of the analytical requirements for the project. Ms. Pang is also responsible for reporting any problems associated with sample cooler receipt and/or problems with analysis of the samples. Any corrective action implemented in the laboratory that may potentially affect the quality of the analytical data must be approved by Ms. Moss prior to implementation.

The CQC Systems Manager/SHSO/Site Construction Manager will be responsible for ensuring that sampling is conducted in accordance with prescribed procedures. All corrective actions will be provided to the Foster Wheeler Project QA Manager and the DOM for concurrence.

Additional information regarding the project organization, including an organization chart, is provided in Section 3 of this work plan.

7.4 (A5) PROBLEM BACKGROUND/DEFINITION

Sample matrices generated during the excavation operation at SWMU 109 consist of soil samples collected from the sidewalls and bottom of the excavation. Potential site contaminants

include VOCs and TRPH. A site description, including the site history and site contamination information, is contained in Section 2. The known contaminants were identified during the Phase II RFI for SWMUs 109, 110, 111, 112 (Harza, 1997). Additional details regarding contaminants are contained in Sections 2.2 and 2.3.

7.5 (A6) PROJECT DESCRIPTION

This QAPP has been prepared to address the specific chemical QA requirements for sampling and analysis conducted during the excavation activities at SWMU 109. A description of the scope of work is contained within Section 4.

The activities covered by this QAPP include on-site soil screening for TPH, soil confirmation sampling and analysis to identify residual concentrations of VOCs and TRPH subsequent to excavation, and characterization of the excavated soil for disposal. Section 6, the SAP, contains detailed information on the number and types of samples to be collected and the sampling procedures to be used. QC activities for the closure operation are discussed in the CQC Plan, Appendix D.

7.6 (A7) QUALITY OBJECTIVES

7.6.1 Data Quality Objectives

Data quality objectives (DQOs) for this project are described in the USACE Scope of Services, January 27, 2000, and include the following objectives to support the final corrective measure:

- Excavation of potentially contaminated soil at SWMU 109
- Sampling and analysis to confirm TRPH concentrations do not exceed the action level
- Sampling and analysis of excavated soil to determine the appropriate disposal option

7.6.2 Analytical Support Levels

The analytical support levels for the corrective action at SWMU 109 will include screening and definitive data levels as determined by the project DQOs. Screening level data will be generated during the on-site field screening using the TPH test kits. Definitive data will be generated by the off-site analytical laboratory for the analysis of the confirmation samples (VOCs and TRPH) and the characterization analysis of the excavated soil (TCLP VOCs, TRPH, and ignitability).

7.6.3 Data Quality Indicators

Laboratory precision and accuracy data and reporting limits are provided in Appendix B. Method descriptions for each of the analyses required for the project are provided in Section 7.13.

7.6.4 Level of Field Quality Control Effort

One field duplicate soil sample will be collected at SWMU 109 and sent to EMAX for TRPH and VOC analysis to assess sampling and analytical precision.

7.7 (A8) PROJECT NARRATIVE

Information required for the project narrative is contained throughout the work plan.

7.8 (A9) SPECIAL VALIDATION

EMAX is validated by the USACE Chemistry Quality Assurance Branch (CQAB) of the Waterways Experimentation Station Laboratory to perform the analytical methods required for this project. All contact with EMAX will be made to:

EMAX Laboratories, Inc.
630 Maple Ave.
Torrance, CA 90503
Phone: 310-618-8889
Attn: Ms. Kam Pang

7.9 (A10) DOCUMENTATION AND RECORDS

Documentation and records generated during this project and the associated submittal schedule will consist of the following:

1. Field Investigation Logs—Maintained in the Foster Wheeler project files.
2. DQCRs—Submitted to USACE in the CMS Final Letter Report.
3. Definitive Level Analytical Data Packages—Submitted by EMAX to the Foster Wheeler Project Chemist within 21 days of sample receipt; submitted to USACE with the CMS Final Letter Report.

Additional documentation consisting of the field sampling logbooks will be maintained in the project files.

7.10 (B1) SAMPLING DESIGN PROCESS

The design of data collection operations is presented in Section 6.3. This section discusses the project-specific requirements related to the type and frequency of sampling, including QC samples, as well as establishment of nomenclature to designate the various samples that will be acquired in the field. Field procedures to be used during the project are provided in Appendix C.

7.11 (B2) SAMPLING METHOD REQUIREMENTS

Sampling procedures for TPH field screening and collection of soil samples and waste characterization samples are discussed in Section 6 of the work plan. These procedures are provided in Appendix C of this plan.

7.12 (B3) SAMPLE HANDLING AND CUSTODY REQUIREMENTS

Sample handling and custody requirements are contained in SOP C4. This SOP provides detailed information on the processes used for sample labeling, sample preservation, sample handling and shipping, sample documentation and tracking, and sample C-O-C. Examples of the sample tag, C-O-C, and the custody seal forms are presented as Figures 7-1, 7-2, and 7-3, respectively. Sample containers, preservation requirements, and holding times are presented in Table 7-1.

Soil samples received at EMAX will be documented and logged into their Laboratory Information Management System (LIMS) for tracking purposes. Each sample will be assigned a unique work order sample number, and a label exhibiting the unique work order number will be attached to each sample container. Date and time of sample receipt, as well as identifying marks, are recorded on the sample receipt forms. Samples are tracked under C-O-C from the point of entry into the laboratory system until time of disposal and are checked into and out of secure storage areas by authorized personnel.

7.13 (B4) ANALYTICAL METHODS REQUIREMENTS

The methods and procedures that will be used to prepare and analyze samples are discussed in this section and summarized in Table 7-2. Chemical analyses will be performed according to

Figure 7-1. Sample Tag Form

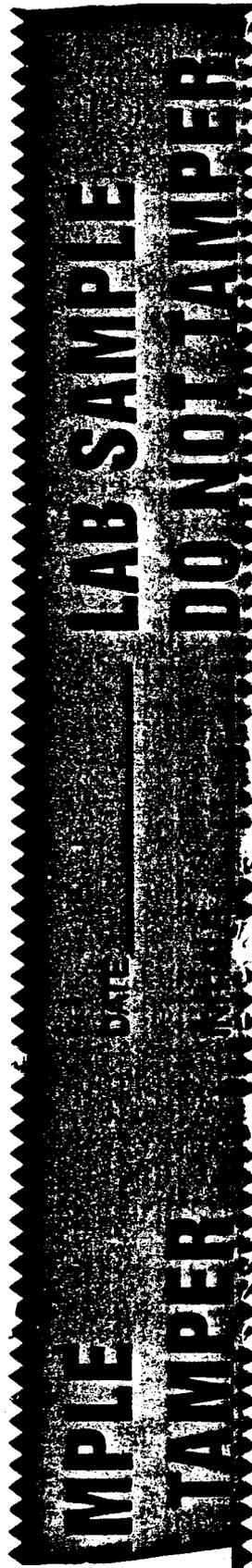


Figure 7-3. Custody Seal

90009

I-CHEM
C O M P A N Y
A N A L G E C O M P A N Y

CUSTODY SEAL

Date _____

Signature _____

Table 7-1. Sample Container, Preservation, and Holding Time Requirements

Matrix	Parameter	Container ⁽¹⁾	Preservation ⁽²⁾	Maximum Holding Times ⁽³⁾	
				Extraction	Analysis
Soil	TRPH	1 × 8-oz G	Ice to 4°C	--	28 d
Soil	VOCs	1 × 4-oz G	Ice to 4°C	--	14 d
Soil	TCLP VOCs	1 × 8-oz G	Ice to 4°C	14 d	14 d
Soil	Ignitability	--	--	--	7 d

Notes:

- 1 All containers must have Teflon-lined lids.
- 2 Sample preservation will be done in the field immediately upon sample collection.
- 3 When only one holding time is given, it implies total holding time from sampling until analysis.
- °C Degrees Celsius
- d Day
- G Amber glass
- oz Ounce
- TCLP Toxicity Characteristic Leaching Procedure
- TRPH Total recoverable petroleum hydrocarbons
- VOCs Volatile organic compounds

EPA SW-846, Test Methods for Evaluating Solid Waste (EPA, 1986). The specific compounds to be analyzed with each method are listed in Appendix B.

The laboratory will perform instrument-specific demonstration of capability and method detection limit (MDL) studies to verify that project-specific reporting limits can be met. Analyses will only be performed on instruments with valid and current MDL studies. The MDL documentation is provided in Appendix B.

7.13.1 Total Recoverable Petroleum Hydrocarbons

Soil samples will be analyzed for TRPH to determine the presence of TRPH fuels, oils, and lubricants. TRPH analysis will be performed in accordance with SW-846 Method 9071 for extraction and 418.1 for analysis. The soil sample is extracted with trichlorotrifluoroethane solvent using a Soxhlet apparatus and analyzed using infrared spectrophotometry.

7.13.2 Ignitability

The waste soil sample will be analyzed for ignitability in accordance with a modified SW-846 Method 1020. This method uses the Setaflash closed tester to determine whether a material will flash at a specified temperature. Material that flashes at or below a temperature of 60° Celsius will be determined as ignitable.

7.13.3 Toxicity Characteristic Leaching Procedure

Waste soil will be analyzed for TCLP VOCs. The waste soil is leached in accordance with SW-846 Method 1311, using an acetic acid solution. The extract obtained from the acidified leaching process is then analyzed for the RCRA toxicity list of VOCs using SW-846 Method 8260B. The resulting concentrations are compared to the RCRA toxicity values.

7.13.4 Soil Moisture

Soil moisture will be measured in each soil sample using SW-846 Section 7.2, Determination of Percent Moisture. Percent moisture will be used to report analytical results on a dry-weight basis.

Table 7-2. Analytical Procedures for the Corrective Measure Study at SWMU 109

Parameter	Technique	Extraction/Analysis Method ¹
VOCs	GC/MS	5035/8260B
TRPH	IR	9071/418.1
TCLP VOCs	GC/MS	1311/8260B
Ignitability	Setaflash Tester	1020

Notes:

¹Method EPA SW-846, Test Methods for Evaluating Solid Waste, Third Edition, 1986 and updates

VOCs Volatile organic compounds
GC/MS Gas chromatography/mass spectrometry
TRPH Total recoverable petroleum hydrocarbon
IR Infrared spectrophotometry
TCLP Toxicity Characteristic Leaching Procedure

7.14 (B5) QUALITY CONTROL REQUIREMENTS

One confirmation soil duplicate sample will be collected and analyzed for the same parameters as the associated field sample (VOCs and TRPH). No field duplicate sample will be collected for waste soil characterization samples.

Corrective actions will be conducted in accordance with the process identified in the CQC Plan (Appendix D). The CQC Systems Manager/SHSO will be responsible for identifying nonconforming conditions during sampling and shipping. The Laboratory QA Manager will be responsible for identifying nonconforming conditions in the laboratory. All nonconforming conditions and recommended corrective action will immediately be reported to the Project Chemist and the Project QA Manager.

EMAX will perform sample analysis in accordance with their internal QA program, which includes periodic review and inspection of laboratory procedures, followed by reports to management. The Laboratory QA Manager performs these reviews. The audits are used to ensure proper use of measurement systems, evaluate accuracy of analytical procedures, and to ensure the laboratory is adhering to internal policies and procedures as set forth in their QA Plan and SOPs.

7.15 (B6) INSTRUMENT/EQUIPMENT TESTING AND MAINTENANCE REQUIREMENTS

All field and laboratory instruments will be tested to ensure proper functioning prior to sampling and analysis. The laboratory performs maintenance on all instruments as per an established schedule or based on the manufacturer's recommendation.

7.16 (B7) INSTRUMENT CALIBRATION

Instrument calibration for health and safety monitoring is discussed in the SHSP (Appendix E).

7.17 (B8) INSPECTION/ACCEPTANCE REQUIREMENTS FOR SUPPLIES

Level I certified sample containers will be used for collection of field samples. The off-site laboratory will maintain certification.

Standard solutions used by EMAX for analytical testing are obtained from reliable sources and prepared with calibrated glassware. Where possible, standards that are traceable to the National Institute of Standards and Technology through the stock standard supplier and EMAX's internal system of standards tracking are used.

7.18 (B9) DATA ACQUISITION REQUIREMENTS

Data used to determine the field sampling and analysis requirements were obtained from the Phase II RFIs for SWMUs 109, 110, 111, and 112. The data collected for the Phase II RFI has been determined as meeting the DQOs for the investigation.

7.19 (B10) DATA MANAGEMENT

Definitive data deliverables are required for this project for the off-site laboratory analysis. Hard copies of the data deliverables will be provided to Foster Wheeler within 21 days of receipt of samples at the laboratory. An electronic data submittal to USACE is not required for this project. The following information is to be included in the hardcopy data deliverables:

- Case narrative
- Sample results summary forms
- C-O-C documentation/sample receipt forms
- Holding time information
- Initial and continuing calibration information
- Method blank summary
- Laboratory control sample summary
- Matrix spike/matrix spike duplicate summary
- Laboratory duplicate sample summary
- Surrogate percent recovery data
- Raw instrument data

7.20 (C) ASSESSMENT/OVERSIGHT

The on-site CQC Systems Manager/SHSO will conduct soil sampling inspections during the closure operations. All inspections will be documented in the DQCR. In addition, one completion inspection will be conducted as indicated in the CQC Plan, Appendix E. The

Laboratory QA Manager will conduct laboratory oversight as described in the QA Plan. Any deficiencies noted during inspection activity requiring corrective action will be documented in a nonconformance report generated by the laboratory and provided to the Foster Wheeler Project Chemist. The DOM and the Project QA Manager must approve all corrective actions.

7.21 (D) DATA VALIDATION AND USABILITY

The Foster Wheeler Project Chemist or designee will validate analytical data generated by Emax. This validation will be in accordance with the EPA guidance (1994b, 1994c) and will include a review of the C-O-Cs, holding times, instrument calibration, method blanks, verification of quantitation limits, laboratory corrective actions, analyte quantitation and identification, surrogate system monitoring compounds, MS/MSD recovery data, laboratory control sample data, duplicate sample analysis data, and data completeness. A brief summary of data usability will be included with the CMS Final Letter Report.

Section 7.0 (A)—Quality Assurance Project Plan

Title and Approval Sheet

For

Corrective Measures Study at SWMU 109
Quality Assurance Project Plan
Cannon AFB
Clovis, NM

Prepared by:

Foster Wheeler Environmental Corporation
143 Union Boulevard, Suite 1010
Lakewood, CO 80228

Foster Wheeler Environmental Corporation Approval

Carol Bieniulis
Delivery Order Manager

Date

Deborah Wilson
Project Quality Assurance Manager

Date

Pam Moss
Project Chemist

Date

8.0 PROJECT SCHEDULE AND MEETINGS

This section presents the schedule for the major project phases.

8.1 PROJECT SCHEDULE

The following table outlines the anticipated schedule for the CMS at SWMU 109.

Procurement	May 29, 2000–June 9, 2000
Project Kick-Off Meeting	June 7, 2000
Mobilization and Field Activities	June 12, 2000–June 23, 2000
Sample Analysis	June 26, 2000–June 30, 2000
Backfill/Site Restoration and Waste Disposal	July 3, 2000–July 7, 2000
Completion Report	July 10, 2000–July 14, 2000

8.2 PROJECT MEETINGS

Project meetings will be held at the site and the Denver home office (by telephone) and will be supplemented by weekly (or more frequent) teleconferences. The agenda for these meetings may include the following:

- Review of work progress
- Field observations, problems, and conflicts
- Problems that affect the construction schedule and proposed corrective actions
- Review of off-site delivery schedules
- Revisions to construction schedule
- Forecast of progress for following week
- Review of submittal schedule
- Review of quality/health and safety programs
- Pending changes and substitutions
- Review of proposed changes for effects on construction, construction completion date, and other construction activities
- Any other business

9.0 REFERENCES

EPA (United States Environmental Protection Agency)

1986 Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW-846, Third Edition. Office of Solid Waste and Emergency Response. November.

1994a RCRA Corrective Action Plan, OSWER Directive #9902.3.

1994b Contract Laboratory Program National Functional Guidelines for Inorganic Data Review. EPA 540/R-94/013.

1994c Contract Laboratory Program National Functional Guidelines for Organic Data Review. EPA 540/R-94/012.

Foster Wheeler (Foster Wheeler Environmental Corporation)

1994 Foster Wheeler Environmental Corporate Health and Safety Manual.

Harza Environmental Services, Inc.

1997 Phase II RCRA Facilities Investigation Report Cannon Air Force Base, New Mexico.

USACE (United States Army Corps of Engineers)

1996 General Chemistry Supplement to the Scope of Services for Studies.

Woodward Clyde

1994 RCRA Facility Investigation, Appendix III SWMUs—Phase I, Cannon Air Force Base, New Mexico, February.

Appendix A

Technical Specifications

DEFINITIONS, ABBREVIATIONS, AND REFERENCE STANDARDS

1.0 GENERAL

1.1 Definitions Used in the Technical Specifications

Contract Documents

Contract documents include the following:

- Construction Drawings
- Technical Specifications
- Construction Work Plan
- Subcontract Agreements

Base—Cannon Air Force Base

USACE—United States Army Corps of Engineers

Contractor—Foster Wheeler Environmental Corporation (Foster Wheeler)

Subcontractor or Vendor—A person, firm, or corporation with whom the Contractor has contracted with to perform the Work.

Work—Any and all obligations, duties, and responsibilities necessary to the successful completion of the Project assigned to or undertaken by the Contractor or any Subcontractor or Vendor under the Contract Documents, including all labor, materials, equipment, permits, inspections, and other incidentals, and the furnishing thereof.

1.2 Abbreviations

%	percent
AFB	Air Force Base
SWMU	Solid Waste Management Unit

1.3 Reference Standards

Reference to standards, specifications, manuals, or codes of any technical society, organization, or association, or to any Laws or Regulations of any governmental authority, whether such reference be specific or by implication, shall mean the latest standard, specification, manual, code, or Laws or Regulations in effect at the time of execution of the Work, except as otherwise specifically stated. However, no provision of any referenced standard, specification, manual, or code (whether or not specifically incorporated by reference in the Contract Documents) shall be

effective to change the duties and responsibilities of Owner, Contractor, Subcontractor, Vendor, or any of their Consultants, agents, or employees from those set forth in the Contract Documents.

1.4 Clarifications

In the event of a discrepancy between the Work Plan, Construction Drawings, and Technical Specifications, the Construction Superintendent shall bring the discrepancy to the attention of the Construction Site Manager for resolution.

Reference: Standard Specifications for Highway and Bridge Construction, New Mexico State Highway and Transportation Department, 1994. Section 101.

DUST CONTROL

1.0 GENERAL

The Contractor shall conduct operations and maintain the project site so as to minimize the creation and dispersion of dust. The Contractor shall use watering equipment for dust control as necessary. Dust control shall be implemented throughout the Work.

2.0 MATERIALS AND EQUIPMENT

The Contractor shall have clean water available at the site, free from salt, oil, and other deleterious material, to be used for dust control at any area involved in the Work. The Contractor shall supply water-spraying equipment capable of accessing all Work areas.

3.0 EXECUTION

The Contractor shall implement strict dust-control measures during active excavation periods on site. These control measures will generally consist of water applications as necessary that shall be applied in the Work zone to prevent dust emissions. The water will be applied at a rate that will control the dust without causing the water to pond.

Reference: Standard Specifications for Highway and Bridge Construction, New Mexico State Highway and Transportation Department, 1994. Section 603.

EROSION AND SEDIMENT CONTROL

1.0 GENERAL

The Contractor shall design, furnish, install, and maintain all temporary erosion-control measures as specified in this section. This section provides the technical requirements for the design of erosion- and sediment-control systems to limit discharge of turbid or contaminated water into streams and waterways from construction operations in accordance with state and local ordinances. Existing earthen berms and trenches will be used for erosion and sediment control. If additional requirements are necessary, the Contractor shall provide additional berms at the perimeter of the trench or stockpile (if used).

2.0 MATERIALS

Materials shall conform to the requirements of the State of New Mexico Standard Specifications for Highway and Bridge Construction, Section 603. The Contractor shall design, furnish, install, and maintain all erosion-control measures during the course of construction. Plastic sheeting and railroad ties shall be utilized by the Contractor, as necessary, to control erosion of stockpiled materials.

3.0 EXECUTION

The Contractor shall make every effort to minimize erosion from excavating, stockpiling (if used), and backfilling operations and be responsible for diverting all runoff from rainfall, directing it to natural drainage pathways.

The Contractor shall construct and maintain all temporary stockpile enclosures and covers. All required material shall be furnished and all necessary liners, berms, and covers installed so as to minimize obstruction of the work. After having served their purpose, all temporary stockpile enclosures shall be removed to the satisfaction of the Base.

Reference: Standard Specifications for Highway and Bridge Construction, New Mexico State Highway and Transportation Department, 1994. Section 603.

EARTHWORK

1.0 GENERAL

This section covers the excavation, stockpiling, and backfilling of soil. Excavation will be undertaken to remove contaminated soil from each site and to allow verification soil samples to be collected. After soil is excavated, it will be put into rolloffs until disposal options are determined, based on the waste characterization analysis. Following receipt of confirmation soil sample analysis, each excavation will be backfilled.

The Contractor shall supply all materials, equipment, and services required for excavating, loading, storing material, placing, and compaction operations.

2.0 MATERIALS

SWMU 109 will be backfilled with clean gravel base course.

3.0 EXECUTION

3.1 On-Site Excavation

On-site excavation shall consist of the excavation of all materials required to complete the Work. Excavation operations shall be conducted so material outside the Work zone will not be disturbed.

The Contractor shall contact Base personnel to field-locate all existing utilities within the Work zones and take all precautions to protect them during excavation activities. If active utility lines are encountered, necessary steps shall be taken to assure that any service interruptions, if required, are kept to a minimum.

All excavated materials shall be handled in accordance with the Construction Work Plan.

3.2 Rolloff/Stockpiling

Soil from each excavation shall be placed into a rolloff. Samples shall be taken from the rolloff for chemical analysis, as specified in the Sampling and Analysis Plan.

3.3 Backfilling

The excavated areas will be backfilled with backfill and stockpiled material. Soil and/or gravel base course will be placed in the excavations and mechanically compacted 90 percent standard proctor. No geotechnical testing will be required.

Reference: Standard Specifications for Highway and Bridge Construction, New Mexico State Highway and Transportation Department, 1994. Section 203.

Appendix B

**Analytical Methods, Reporting Limits,
And Quality Control Criteria**

SUMMARY OF MDL RL QC LIMITS

WET CHEMISTRY		Water			Soil				
METHOD	PARAMETER	MDL	RL	UNIT	QCL (%R)	MDL	RL	UNIT	QCL (%R)
310.1	Alkalinity	0.469	5	mg/L	80 - 120				
350.2	Ammonia	0.0299	1	mg/L	80 - 120	0.0202	1	mg/kg	80 - 120
405.1	Biochemical Oxygen Demand (BOD)	0.341	1	mg/L	80 - 120				
410.4	Chemical Oxygen Demand (COD)	4.045	10	mg/L	80 - 120				
9010B 9014A	Cyanide	0.0028	0.01	mg/L	80 - 120	0.119	0.5	mg/kg	80 - 120
9030 9014A	Cyanide, Reactive	0.0841	0.1	mg/L	80 - 120	8.71	20	mg/kg	80 - 120
130.2	Hardness	5.13	10	mg/L	80 - 120				
2340B	Hardness	0.563	10	mg/L	80 - 120				
7196A	Hexavalent Chromium	0.0024	0.01	mg/L	80 - 120	0.024	0.44	mg/kg	80 - 120
425.1	MBAS	0.027	0.1	mg/L	80 - 120				
354.1	Nitrite/Nitrate ✓	0.0005	0.01	mg/L	80 - 120				
351.3	Nitrogen (TKN)	0.0255	1	mg/L	80 - 120	0.0623	1	mg/kg	80 - 120
413.2	Oil & Grease	0.555	1	mg/L	80 - 120	1.62	10	mg/kg	80 - 120
420.1	Phenols, Total (Phenolics)	0.0151	5	mg/L	80 - 120				
365.2	Phosphorus, PO4	0.0062	0.05	mg/L	80 - 120				
365.2	Phosphorus, Total	0.0077	0.05	mg/L	80 - 120				
370.1	Silica	0.0293	0.1	mg/L	80 - 120				
160.1	Solids, Total Dissolved (TDS)	4.33	10	mg/L	80 - 120				
160.2	Solids, Total Suspended (TSS)	1.81	10	mg/L	80 - 120				
120.1	Specific Conductance	0.197	1	umhos/cm	80 - 120				
375.4	Sulfate	0.253	0.5	mg/L	80 - 120				
376.1	Sulfide	0.362	1	mg/L	80 - 120				
9034	Sulfide, Reactive	0.219	1	mg/L	80 - 120	17.6	20	mg/kg	80 - 120
415.1 W Black	Total Organic Carbon (TOC) ✓	0.551	5	mg/L	80 - 120	0.0486	0.06	%by Wt	80 - 120
9060 W Black	Total Organic Carbon (TOC) ✓	0.551	5	mg/L	80 - 120	0.0486	0.06	%by Wt	80 - 120
418.1	TRPH	0.558	1	mg/L	80 - 120	4.15	10	mg/kg	80 - 120
180.1	Turbidity	0.0168	1	mg/L	80 - 120				

7.RPD 20 for both soil and water

TCLP Analyte List with Regulatory Limits and Reporting Limits

Method	Parameters	Regulatory Level (mg/L)	TCLP RL (mg/L)	Solid RL (mg/kg)
VOA by 8260B	Benzene	0.50	0.05	0.50
	2-Butanone	200	0.50	5.00
	Carbon Tetrachloride	0.50	0.05	0.50
	Chlorobenzene	100	0.05	0.50
	Chloroform	6	0.05	0.50
	1,4-Dichlorobenzene	7.5	0.05	0.50
	1,2-Dichloroethane	0.50	0.05	0.50
	1,1-Dichloroethene	0.70	0.05	0.50
	Tetrachloroethene	0.70	0.05	0.50
	Trichloroethene	0.50	0.05	0.50
	Vinyl Chloride	0.20	0.05	0.50

Method	Parameters	Regulatory Level (mg/L)	TCLP RL (mg/L)	Solid RL (mg/kg)
Metals by 6010B/ 7470A	Arsenic	5.0	1.0	20
	Barium	100	1.0	20
	Cadmium	10	1.0	20
	Chromium	5.0	1.0	20
	Lead	5.0	1.0	20
	Mercury	0.2	0.02	0.2
	Selenium	1.0	1.0	20
	Silver	5.0	1.0	20

Method	Parameters	Regulatory Level (mg/L)	TCLP RL (mg/L)	Solid RL (mg/kg)
Herbicides by 8151A	2,4-D	10	0.005	0.084
	2,4,5-TP (Silvex)	1.0	0.002	0.033

Method	Parameters	Regulatory Level (mg/L)	TCLP RL (mg/L)	Solid RL (mg/kg)
Pesticides by SW8081A	Endrin	0.02	0.001	0.033
	Lindane	0.4	0.0005	0.017
	Methoxychlor	10	0.005	0.17
	Heptachlor	0.008	0.0005	0.017
	Heptachlor Epoxide	0.008	0.0005	0.017
	Toxaphene	0.5	0.010	0.33
	Chlordane (β or γ)	0.03	0.0005	0.017

Method	Parameters	Regulatory Level (mg/L)	TCLP RL (mg/L)	Solid RL (mg/kg)
SVOA by SW8270C	2,4-Dinitrotoluene	0.13	0.10	1.65
	Hexachlorobenzene	0.13	0.10	1.65
	Hexachlorobutadiene	0.50	0.10	1.65
	Hexachloroethane	3.0	0.10	1.65
	Nitrobenzene	2.0	0.10	1.65
	Pentachlorophenol	0.7	0.50	3.3
	Pyridine	5.0	0.50	3.3
	2-Methylphenol	200	0.10	1.65
	4-Methylphenol	200	0.10	1.65
	2,4,5-Trichlorophenol	400	0.50	3.3
	2,4,6-Trichlorophenol	2.0	0.10	1.65

SUMMARY OF MDL RL QC LIMITS

5035 3260B	MDL	RL	UNIT	QC LIMITS
TARGET ANALYTE				
1 1,1,1,2-Tetrachloroethane	0.196	5	ug/kg	50 - 150
2 1,1,1-Trichloroethane	0.209	5	ug/kg	65 - 133
3 1,1,2,2-Tetrachloroethane	0.210	5	ug/kg	44 - 144
4 1,1,2-Trichloroethane	0.160	5	ug/kg	71 - 129
5 1,1-Dichloroethane	0.134	5	ug/kg	56 - 136
6 1,1-Dichloroethene	0.326	5	ug/kg	50 - 149
7 1,1-Dichloropropene	0.518	5	ug/kg	62 - 127
8 1,2,3-Trichlorobenzene	0.902	5	ug/kg	64 - 143
9 1,2,3-Trichloropropane	0.454	5	ug/kg	41 - 145
10 1,2,4-Trichlorobenzene	0.861	5	ug/kg	69 - 139
11 1,2,4-Trimethylbenzene	0.517	5	ug/kg	74 - 126
12 1,2-Dibromo-3-chloropropane	0.772	10	ug/kg	45 - 147
13 1,2-Dibromoethane	0.299	5	ug/kg	50 - 150
14 1,2-Dichlorobenzene	0.252	5	ug/kg	79 - 122
15 1,2-Dichloroethane	0.195	5	ug/kg	69 - 132
16 1,2-Dichloropropane	0.257	5	ug/kg	72 - 124
17 1,3,5-Trimethylbenzene	0.279	5	ug/kg	75 - 125
18 1,3-Dichlorobenzene	0.242	5	ug/kg	66 - 131
19 1,3-Dichloropropane	0.225	5	ug/kg	70 - 128
20 1,4-Dichloro-2-butene	2.590	10	ug/kg	50 - 150
21 1,4-Dichlorobenzene	0.297	5	ug/kg	74 - 126
22 1-Chlorohexane	0.307	5	ug/kg	72 - 129
23 2,2-Dichloropropane	0.270	5	ug/kg	52 - 146
24 2-Butanone(MEK)	1.640	20	ug/kg	50 - 150
25 2-Chloroethyl Vinyl Ether	0.683	5	ug/kg	50 - 150
26 2-Chlorotoluene	0.341	5	ug/kg	73 - 128
27 2-Hexanone	1.090	20	ug/kg	20 - 165
28 4-Chlorotoluene	0.223	5	ug/kg	71 - 125
29 4-Methyl-2-Pentanone(MIBK)	0.991	10	ug/kg	50 - 150
30 Acetone	2.330	10	ug/kg	20 - 165
31 Acrolein	20.000	50	ug/kg	50 - 150
32 Acrylonitrile	2.410	50	ug/kg	50 - 150

Comment: The RL QCL specified in this document is the in-house default value. The contract takes precedence in the event that the project specifies the required RL and QC Limits. Effective Date: November 15, 1999.

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SUMMARY OF MDL RL QC LIMITS

5035 8260B		MDL	RL	UNIT	QCL (24h)
TARGET ANALYTE					
33	Benzene	0.181	5	ug/kg	66 - 125
34	Bromobenzene	0.529	5	ug/kg	62 - 134
35	Bromochloromethane	0.421	5	ug/kg	22 - 164
36	Bromodichloromethane	0.208	5	ug/kg	71 - 130
37	Bromoform	0.184	5	ug/kg	54 - 141
38	Bromomethane	0.403	5	ug/kg	42 - 158
39	Carbon Disulfide	0.113	5	ug/kg	64 - 113
40	Carbon Tetrachloride	0.288	5	ug/kg	60 - 141
41	Chlorobenzene	0.178	5	ug/kg	72 - 126
42	Chloroethane	0.602	5	ug/kg	28 - 165
43	Chloroform	0.386	5	ug/kg	61 - 132
44	Chloromethane	0.628	5	ug/kg	38 - 144
45	cis-1,2-Dichloroethene	0.183	5	ug/kg	58 - 135
46	cis-1,3-Dichloropropene	0.240	5	ug/kg	47 - 142
47	Dibromochloromethane	0.145	5	ug/kg	70 - 128
48	Dibromomethane	0.248	5	ug/kg	70 - 126
49	Dichlorodifluoromethane	0.194	5	ug/kg	20 - 165
50	Ethyl Methacrylate	0.401	5	ug/kg	50 - 150
51	Ethylbenzene	0.162	5	ug/kg	78 - 121
52	Hexachlorobutadiene	0.279	5	ug/kg	53 - 163
53	Iodomethane	0.236	5	ug/kg	50 - 150
54	Isopropyl Benzene	0.212	5	ug/kg	76 - 121
55	m,p-Xylene	0.350	5	ug/kg	79 - 124
56	Methyl Tert-Butyl Ether	0.250	5	ug/kg	44 - 165
57	Methylene Chloride	0.986	10	ug/kg	37 - 149
58	n-Butylbenzene	0.929	5	ug/kg	60 - 136
59	n-Propylbenzene	0.298	5	ug/kg	70 - 129
60	Naphthalene	1.310	5	ug/kg	36 - 165
61	o-Xylene	0.172	5	ug/kg	80 - 125
62	p-Isopropyltoluene	0.603	5	ug/kg	74 - 130
63	sec-Butylbenzene	0.356	5	ug/kg	77 - 122
64	Styrene	0.162	5	ug/kg	75 - 129

Comment: The RL QCL specified in this document is the in-house default value. The contract takes precedence in the event that the project specifies the required RL and QC Limits. Effective Date: November 15, 1999.

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SUMMARY OF MDL RL_QC LIMITS

5035 8260B	MDL	RL	UNIT	QCL (MR)
TARGET ANALYTE				
65 tert-Butylbenzenc	0.208	5	ug/kg	80 - 120
66 Tetrachloroethene	0.222	5	ug/kg	68 - 138
67 Toluene	0.191	5	ug/kg	68 - 126
68 trans-1,2-Dichloroethene	0.301	5	ug/kg	56 - 137
69 trans-1,3-Dichloropropene	0.262	5	ug/kg	58 - 135
70 Trichloroethene	0.198	5	ug/kg	68 - 127
71 Trichlorofluoromethane	0.160	5	ug/kg	29 - 165
72 Vinyl Acetate	0.569	5	ug/kg	50 - 150
73 Vinyl Chloride	0.317	5	ug/kg	42 - 149
SURROGATE				
1 1,2-Dichloroethane-d4				54 - 139
2 Bromofluorobenzene				71 - 125
3 Toluene-d8				73 - 124

Comment: The RL QCL specified in this document is the in-house default value. The contract takes precedence in the event that the project specifies the required RL and QC Limits. Effective Date: November 15, 1999.

EMAX IN-HOUSE QUALITY CONTROL PROCEDURES

SW8260B

Project Code: _____

QC PROCEDURE	FREQUENCY	ACCEPTANCE CRITERIA	CORRECTIVE ACTION	FLAGGING CRITERIA	1st Rvw	2nd Rvw
Five-point initial calibration for all analytes	Initially; as needed	SPCCs: (1)ARF= \geq 0.1 (2)ARF= \geq 0.3 CCC : RSD for RF < 30% Quantitation Options: 1). linear- mean RSD for all analytes \leq 15% with no analyte have RSD > 30% 2). linear - least squares regression $r \geq$ 0.995 3). non-linear - COD > 0.990 (6 points shall be used for second order, 7 points shall be used for third order)	Correct the problem then repeat initial calibration		<input type="checkbox"/>	<input type="checkbox"/>
Second-source calibration verification	After initial calibration	All analytes within \pm 25% of expected value *(\pm 35% of expected value)	Correct the problem then repeat initial calibration		<input type="checkbox"/>	<input type="checkbox"/>
Retention time window calculated for each analyte	Each sample	Relative retention time (RRT) of the analyte within \pm 0.06 RRT units of the RRT	Correct the problem then reanalyze all samples analyzed since the last retention time check		<input type="checkbox"/>	<input type="checkbox"/>
Calibration verification	Daily, before sample analysis and every 12 hours of analysis time	SPCCs: (1)ARF= \geq 0.1 (2) ARF= \geq 0.3 CCCs \leq 20% Diff (when using RFs) or drift (when using least squares regression or non-linear calibration)	Correct the problem then repeat initial calibration		<input type="checkbox"/>	<input type="checkbox"/>
ISs	Immediately after or during data acquisition for each sample	Retention time \pm 30 seconds from retention time of the mid-point std. in the ICAL.EICP area within -50% to +100% of ICAL mid-point std.	Inspect mass spectrometer and GC for malfunctions; mandatory reanalysis of samples analyzed while system was malfunctioning		<input type="checkbox"/>	<input type="checkbox"/>
Method blank	One per preparation batch	No analytes detected \Rightarrow RL	Reprep and reanalyze method blank and all samples processed with the contaminated blank	Apply B to specific analyte(s) on all associated samples	<input type="checkbox"/>	<input type="checkbox"/>
LCS	One LCS per preparation batch	Within EMAX QC Limits	Reprep and reanalyze the LCS and all associated samples		<input type="checkbox"/>	<input type="checkbox"/>
MS/MSD	One MS/MSD per every 20 project samples per matrix	Within EMAX QC Limits	none		<input type="checkbox"/>	<input type="checkbox"/>
Check of mass spectral ion intensities using BFB	Prior to initial calibration and calibration verification	Refer to criteria listed in the method description (EMAX-8260 Table 7)	Retune instrument and verify		<input type="checkbox"/>	<input type="checkbox"/>
Surrogate spike	Every sample, spiked sample, standard, and method blank	Within EMAX In-house QC Limits	Correct the problem then reextract and analyze sample		<input type="checkbox"/>	<input type="checkbox"/>
Results reported between MDL and RL	none	none	none	Apply J to all values between MDL and RL.	<input type="checkbox"/>	<input type="checkbox"/>

Comments:

Comments: RL= lowest calibration point
 SPCC: (1). Bromoform, Chloromethane and 1,1-Dichloroethane (2). Chlorobenzene and 1,1,2,2-Tetrachloroethane
 CCC: Chloroform, 1,1-DCE, 1,2-DCP, Chloroform, Ethylbenzene, Toluene and Vinyl Chloride.
 * Except for the following compounds due to erratic chromatographic behavior Bromomethane, Chloroethane, Chloromethane, Dichlorodifluoromethane

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CLINICAL LABORATORY

Appendix C

Standard Operating Procedures

SOP C1 WET DECONTAMINATION METHODS

Wet decontamination methods will consist of high-pressure steam cleaning or of a Liquinox wash followed by a potable water rinse. The stainless-steel sampling equipment will be decontaminated with a Liquinox wash and potable water rinse between sample locations. All visible dirt, grease, oil, and foreign particles will be removed during decontamination.

Foster Wheeler personnel will construct a temporary decontamination pad at a site location approved by Cannon AFB and the USACE Resident Engineer. The decontamination pad will be bermed and sloped to a sump for water and sludge collection. The decontamination pad will be lined with 40-mil plastic sheeting. Any holes in the plastic sheeting will be repaired to watertight conditions before use. The plastic sheeting will be secured to prevent fluttering or blowing away by high winds.

All equipment and tools will be decontaminated both upon arrival and prior to departure from each site. All decontaminated equipment will be stored in a clean condition.

Residuals from decontamination activities will be managed in accordance with this Work Plan.

SOP C2 PHOTOIONIZATION DETECTORS

A photoionization detector (PID) is used to detect the concentration of organic gases in air. During field investigations, this particular instrument serves several functions. First, and most importantly, it is used to protect the health and safety of the field personnel by providing information concerning the presence and concentration of contaminants encountered. Second, the information gained from the instrument is used to screen for potentially contaminated materials. The use of this instrument for health and safety considerations is described in Appendix E.

The PID has some important limitations. The instruments can only monitor certain vapors and gases in air. Many nonvolatile liquids, toxic solids, particulates, and other toxic gases and vapors cannot be detected. Because the types of compounds that the PID can potentially detect are only a fraction of the chemicals possibly present at an incident, a zero reading does not necessarily signify the absence of air contaminants.

The instrument is also nonspecific, and its response to different compounds is relative to the calibration settings. In addition, the reading shown on the meter represents the total concentration of volatile organic compounds rather than the concentration of any one compound. The PID cannot detect methane, nor can it be used as an indicator for combustible gases or oxygen deficiency. In the presence of methane, the PID will register lower levels for organic contaminants that are present due to the interference caused by the methane.

If odor is detected by site workers, the PID will be used to monitor worker breathing zones for the presence of contaminants above action levels.

SOP C3 SOIL SAMPLING

The following procedure will be used for excavation and sampling:

1. Wear appropriate health and safety equipment as required in the Site-Specific Environmental Health and Safety Plan (Appendix E).
2. Use a stainless steel trowel to collect the soil as discussed in Sections 4.2.3 and 6.3 of this Work Plan.
3. Use a stainless-steel scoop to random grab soil sample and place in sample containers. Personnel should not enter the excavation.
4. Empty trowel contents into a stainless-steel pan.
5. Fill jars with soil using stainless-steel spatulas or spoons. All soil samples for chemical analyses, except VOC, must be homogenized by vigorous mixing in stainless-steel pans with stainless-steel spoons prior to being put into containers. Collect VOC samples as discrete grab samples. These should be taken immediately from the hand auger and properly packaged. Homogenize the soil samples by first removing rocks, twigs, leaves, or other debris not considered part of the sample. Remove the soil/sediment from the sampling device and place it in a stainless-steel pan, thoroughly mixing it using a stainless-steel spoon. Scrape the sediment in the pan from the sides, corners, and bottom of the pan, roll it to the middle of the pan, and mix it. Once the initial mixing is complete, quarter the sample and move the quarters to the four corners of the pan. Mix each quarter of the sample individually, and then roll each to the center of the container and mix the entire sample again.
6. Place analytical samples in cooler and chill to 4°C. Samples should be shipped within 24 hours.
7. Fill out field logbook, sample tag forms, custody seals, and C-O-C forms. Example copies of these forms are included in the QAPP, Section 7 of this Work Plan.
8. A hand-sketched map of the excavation showing the soil layers should be included in the field logbook..

SOP C4 SOIL STOCKPILE SAMPLING

Soil composite sampling from stockpiled soil will be performed using the following procedures:

1. Wear appropriate personal protection equipment as specified in the Site-Specific Health and Safety Plan (Appendix E). In addition, don new sampling gloves at each location.
2. Collect one random sample from each visually determined quadrant of the stockpiled soil using the backhoe bucket.
3. Use a decontaminated stainless-steel scoop/trowel to extract the soil sample from the interior of the backhoe bucket.
4. Record appropriate air monitoring results.
5. Obtain one sample from a random location within each backhoe bucket to create composite from each stockpile quadrant.
6. Empty the contents of the scoop/trowel into the decontaminated stainless-steel bowl for homogenization.
7. Homogenize the soil samples by first removing rocks, twigs, leaves, and other debris (if they are not considered part of the sample). Thoroughly mix the soil in the bowl by scraping it from the sides, corners, and bottom of the pan and rolling it to the middle of the pan. Fill the sample jars with the homogenized soil using a stainless-steel spatula or spoon.
8. Place analytical samples in a cooler containing ice and chill to 4°C. Samples should be shipped within 24 hours to an appropriate laboratory.
9. Decontaminate scoop/trowel and bowl as specified in SOP D1.
10. Fill out field logbook, sample log sheet, custody seals, labels, and chain-of-custody forms.
11. Write out sample ID for each composite bermed and lined area or stockpile sample.

SOP C5 SAMPLE HANDLING AND DOCUMENTATION

Sample handling and documentation procedures will be used to ensure the integrity of the sample from sample collection to receipt at the laboratory. Documentation of sample handling will be implemented to ensure the traceability and integrity of the sample.

Labeling

All sample containers will be labeled. Labels may be partially completed prior to sample collection. The date, time, and sampler's name should **NOT** be completed until the time of sample collection. Preprinted, self-adhesive sample labels containing all appropriate sample information, including sample identification, field sample number, sample type, and analyses requested, will be used. Sample labels will be completed with waterproof ink. Sample labels should be completed and attached prior to sample collection for soil samples collected in jars and all decontamination samples collected in bottles.

At a minimum, each numbered label will contain the following information:

- Project/facility
- Sample type (e.g., grab, composite)
- Sampler's company affiliation
- Date and time of sample collection
- Analyses required
- Preservation used
- Sampler's initials
- Chemical Materials Quality Assurance Laboratory of the Waterways Experiment Station (CQAB) identified if sample is collected for the USACE laboratory
- Sample identification (see below)
- CQAB LIMS number

Sampling Containers

Certified, commercially clean sample containers will be obtained from the contract analytical laboratory. If appropriate, the bottles will be labeled by the laboratory to indicate the type of sample to be collected. Surface soil samples will typically be collected in wide-mouth sample jars or in stainless-steel liners.

Sample Preservation

All samples will be stored on ice in an insulated cooler immediately following sample collection. Soil samples do not require additional preservation.

Sample Handling and Shipping

Sample containers will be placed in resealable plastic storage bags and wrapped in protective packing material (if appropriate). Ice (double-bagged using plastic trash bags) will be placed on top of the samples in a cooler for shipment to the laboratory. The drain on the cooler will be taped shut. Samples collected in glass containers will be packed in foam liners and bubble packing or styrofoam peanuts to ensure that no breakage occurs during shipment. Samples will be shipped by overnight express carrier for delivery to the analytical laboratory and to the USACE laboratory (if used). The USACE laboratory will be notified prior to the arrival of the first shipment, after the final shipment, and prior to any Saturday delivery.

A completed chain-of-custody (C-O-C) form for each cooler will be placed in a ziplock bag and taped to the inside of the cooler lid. Coolers will be wrapped with strapping tape at two locations to secure lids. Signed custody seals will be placed on the outside of each cooler. In addition, "Fragile" labels and "This Side Up" labels will be placed on the outside of each cooler containing glass bottles. Put "This Side Up" labels on all four sides and "Fragile" labels on at least two sides. Note that each cooler cannot exceed the weight limit set by the shipper.

Holding Times and Analyses

The holding time is specified as the maximum allowable time between sample collection and analysis and/or extraction, based on the analyte of interest, stability factors, and preservation

methods. Allowable holding times are listed in Table 7-1 of the QAPP. Samples should be sent daily by overnight courier service to the laboratory after collection.

Chemical constituents that will be analyzed have been identified in the Sampling and Analysis Plan, Section 6.

Sample Documentation and Tracking

This section describes documentation required in the field logbook, Daily Quality Control Reports (DQCRs), and sample C-O-C requirements.

Field Logbook—Documentation of observations and data acquired in the field will provide information on the acquisition of samples and also provide a permanent record of field activities. The observations and data will be recorded with waterproof ink in a permanently bound weatherproof field book with consecutively numbered pages and, if applicable, on field sampling data sheets.

The information in the field logbook will include the following as a minimum. Additional information is included in the specific SOPs regarding the appropriate data sheets.

- Project name
- Location of sample
- Sampler's signature
- Date and time of sample collection
- Sample identification numbers
- Description of samples matrix, composite or grab sample
- Analysis to be performed
- Number and volume of samples

- Description of quality assurance/quality control (QA/QC) samples
- Sample methods or reference to the appropriate SOP
- Sample handling as appropriate for samples
- Field observations
- Personnel present

Changes or deletions in the field logbook should be lined out with a single strike mark, initialed, and dated by person making change, and remain legible. Sufficient information should be recorded to allow the sampling event to be reconstructed without relying on the collector's memory.

Each page of the field logbook will be signed by the person making the entry. Anyone making entries in another person's field book will sign and date those entries.

DQCR—To supplement the information recorded in the field logbook, DQCRs will also be maintained to document daily field activities and will note any nonconformances and corrective actions taken at every sampling location. DQCRs will be maintained by each field sampling team and cross-checked for completeness at the end of each day by a sampling team member. They will be signed and dated by the individual making entries and initialed by the reviewer upon completion. Copies of the DQCR will be forwarded to the USACE Resident Engineer and to the Base environmental office by noon of the following day. Copies of the DQCR will be forwarded to the Foster Wheeler QA Manager for review on a weekly basis.

Sample C-O-C—During field sampling activities, traceability of the sample must be maintained from the time the samples are collected until laboratory data are issued. Information on the custody, transfer, handling, and shipping of samples will be recorded on a C-O-C form. C-O-Cs will include site identification, field sample number, sample type, and analysis requested.

The sample handler will be responsible for completing the C-O-C form. The C-O-C will be signed by the sampler when the sampler relinquishes the samples to anyone else. It is not necessary for the

courier service to sign C-O-Cs; however, the airbill will be retained by the sample handler for tracking purposes. A C-O-C form will be completed for each set of samples collected daily and will contain the following information:

- Samplers signature and affiliation
- Project number
- Date and time of collection
- Sample identification number
- Sample type/matrix
- Grab or composite sample
- Preservative used
- Analyses requested
- Number of containers
- Signature of persons relinquishing custody, dates, and times
- Signature of persons accepting custody, dates, and times (laboratory)
- Method of shipment (e.g., Federal Express)

The person responsible for delivery of the samples to the air carrier will sign the C-O-C form, retain the last copy of the three-part C-O-C form, document the method of shipment, and send the original and the second copy of the C-O-C form with the sample (taped in a ziplock bag to inner cooler lid). Upon receipt at the laboratory, the person receiving the samples will sign the C-O-C form and return the second copy to the Delivery Order Manager. Copies of the C-O-C forms and all custody documentation will be received and kept in the central files. The original C-O-C forms will remain with the samples until final disposition of the samples by the laboratory. The analytical laboratory will dispose of the samples in an appropriate manner 60 to 90 days after data reporting. After

sample disposal, a copy of the original C-O-C will be sent to the Delivery Order Manager by the analytical laboratory to be incorporated into the central files.

Appendix D

Contractor Quality Control Plan

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1.0 CONTRACTOR QUALITY CONTROL PLAN

This CQC Plan establishes the procedures and methods to be implemented during remediation of contaminated soil at SWMU 109 on Cannon AFB, New Mexico. This CQC Plan combines the QA/QC requirements from the USACE-Omaha District with the Foster Wheeler QC system requirements to form a set of common requirements commensurate with the scope and nature of services planned under the Southwest Total Environmental Restoration Contract (TERC) Program.

1.1 PURPOSE

The purpose of this CQC Plan is to establish the procedures and methods to be implemented during construction operations to complete a voluntary corrective action at the two sites under TERC No. DACW45-94-D-0003, with the USACE-Omaha District. This CQC Plan provides an effective QC system to ensure the quality of all work performed by describing the specific organization, personnel, procedures, controls, instructions, tests, records, submittals, and forms to be used to ensure that all work products comply with the contract requirements.

1.2 SCOPE

The CQC Plan is applicable to all on-site construction operations, including inspections and testing activities performed for this project. All work activities will be conducted in accordance with this work plan and its respective attachments. This CQC Plan will be implemented for the following activities:

- Required project meetings/teleconferences
- Mobilization
- Excavation/removal of contaminated soil
- Verification/closure sampling and analysis
- Characterization sampling and analysis of excavated soil
- Backfilling
- Site restoration
- Inspection and testing
- Demobilization
- Waste disposal

2.0 ORGANIZATION AND RESPONSIBILITIES

2.1 QUALITY CONTROL ORGANIZATION

This section describes the responsibilities for project personnel performing QC of the on-site construction operations. Project organization chart is provided in Section 3 of the Work Plan.

2.2 DELIVERY ORDER MANAGER

The DOM, Ms. Carol Bieniulis, oversees the coordination of the entire project and is responsible for the direction, execution, and successful completion of project tasks. Ms. Bieniulis is responsible for performing the following activities related to the specific task order:

- Prepare and approve all proposed task-specific work orders.
- Coordinate work activities of subcontractors and Foster Wheeler personnel and ensure that all personnel adhere to the administrative and technical requirements of the project.
- Monitor and report the progress of work and ensure that project deliverables are completed on time and within budget.
- Ensure performance of project management activities including procurement/purchase order preparation, monthly exposure reporting, invoicing, scheduling, and other TERC requirements.
- Ensure adherence to the quality requirements of the contract, specifications of the delivery order, and the CQC Plan.
- Direct the Construction Site Manager to undertake and accomplish the required construction.
- Ensure that all task activities are conducted in a safe manner in accordance with the SSHP in Section 6 of this work plan.
- Communicate as the primary contact between USACE-Construction Representative (CR) and Foster Wheeler for actions and information related to the delivery order.
- Communicate and interface with the CQC Systems Manager Site Health and Safety Officer (SHSO).

2.3 CONTRACTOR QUALITY CONTROL SYSTEMS MANAGER/SITE HEALTH AND SAFETY OFFICER

The CQC Systems Manager/SHSO (James Morning) is responsible for overall management of contractor quality control and health and safety and reports to the Site Construction Manager. The CQC Systems Manager/SHSO will be on site at all times during construction. In the event of this individual's absence, a qualified individual will be appointed to serve as his/her replacement for periods of time not to exceed 2 weeks at any one time and not to exceed more

than 30 work days during a calendar year. The requirements for the alternate will be the same for the designated CQC Systems Manager/SHSO.

The duties of the CQC Systems Manager/SHSO, as they apply to this project, include the following:

- Provide and maintain an effective QC system for all construction activities.
- Monitor QC activities to ensure conformance with authorized policies, procedures, contract specifications, and sound practices.
- Maintain sufficient staff to perform all QC activities appropriate to all work phases, work shifts, and work crews.
- Inspect the work performed each day for compliance with the plans and specifications and prepare the DQCR.
- Ensure that required phases of inspection (preparatory, initial, and followup) are implemented for all definable phases of construction.
- Schedule and manage all submittals, as identified in the Submittal Register, including those of subcontractors providing monthly updates.
- Ensure that all required tests and inspections are performed and the results reported.
- Attend required meetings, including submittal review meetings and field review meetings.
- Review all submittals in detail and verify that they are correct and in strict compliance with contract drawings and specifications.
- Stop work that is not in compliance with the contract.
- Perform the duties of the SHSO as stated in the Basewide Health and Safety Plan.

2.4 SITE CONSTRUCTION MANAGER

Mr. James Morning will also serve as the Site Construction Manager. The primary responsibility of the Site Construction Manager is the timely completion of all field activities as directed by the DOM. The duties of the Site Construction Manager, as they apply to the project, include the following:

- Establish a field base for operations and mobilize subcontractors and Foster Wheeler personnel.
- Procure equipment for work crews and health and safety personnel.
- Coordinate all personnel involved in task activities, including obtaining support services.
- Direct field leaders, support personnel, and subcontractors.

- Administer site access.
- Maintain work site, vehicles, and equipment.
- Coordinate and maintain logistics of all components of on-site tasks, including all personnel and equipment.
- Prepare weekly status reports and estimate future scheduling needs.
- Coordinate, prepare, and complete all required field reports.
- Evaluate relevant documents and permits for validity and current status.
- Acquire necessary permits, licenses, and rights-of-way.

2.5 SUBCONTRACTORS AND VENDORS

Subcontractors and vendors will be required to conform to the Foster Wheeler CQC Plan and any other approved procedures, technical specifications, or contract provisions.

The subcontractor's QC inspectors are responsible for field inspection of their construction and operating activities. Foster Wheeler will monitor, oversee, and make on-site observations and inspections of work in progress to determine whether the subcontractor's work is in accordance with the CQC Plan.

Subcontractor personnel are responsible for maintaining a daily log of the project activities they perform and for providing information needed to complete the DQCR. All inspection records, including inspection and deficiency reports and re-inspections of corrective actions, will be documented.

3.0 CONSTRUCTION INSPECTION PLAN

Contractor QC is the means by which Foster Wheeler ensures that all construction complies with the requirements of the contract. The Construction Inspection Plan establishes the measures required to verify both the quality of work performed and compliance with specified requirements, including the inspection of materials and workmanship before, during, and after each definable feature of work. Contractor QC includes implementation of the following control phases for all aspects of the work specified:

- Preparatory phase
- Initial phase
- Followup phase

Inspection requirements specific to this project are discussed throughout this section.

3.1 PREPARATORY PHASE INSPECTIONS

Preparatory phase inspections will be conducted by the CQC Systems Manager/SHSO prior to starting the definable features of work listed in the technical specifications. At a minimum, these inspections will include the following:

- A review of each paragraph of applicable specifications
- A review of the contract plans
- A check to ensure that all materials and/or equipment have been tested, submitted, and approved
- A check to ensure that provisions have been made for required control inspection and testing
- An examination of the work area to ensure that all required preliminary work has been completed and is in compliance with the contract
- A physical examination of required materials, equipment, and sample work to ensure that they are on hand, conform to approved shop drawings or submitted data, and are properly stored
- A review of the appropriate AHA to ensure that safety requirements are met
- A discussion of procedures for constructing the work, including repetitive deficiencies
- Documentation of construction tolerances and workmanship standards for that phase of work
- A check to ensure that the portion of the CQC Plan for the work to be performed has been accepted by the USACE or designee

The Base Project Manager and USACE Resident Engineer/CR will be notified at least 48 hours in advance of any preparatory phase activity. This phase will include a meeting conducted by the CQC Systems Manager/SHSO that will be attended by other responsible construction personnel as applicable (e.g., the project superintendent, the construction foreman).

The preparatory phase meetings will be documented by item on the Inspection Checklist, as shown on Figure 3-1. Preparatory inspections will be reported on the DQCR, with the checklist included as an attachment. An example of the DQCR is included as Figure 3-2. Personnel performing work activities will be directed by the CQC Systems Manager/SHSO as to the acceptable level of workmanship involved for the particular feature of work covered by the inspection.

3.2 INITIAL PHASE INSPECTION

An initial inspection will be performed at the beginning of a definable feature of work and will include the following:

- A check of preliminary work to ensure that it is in compliance with contract requirements
- A review of the Inspection Checklist documenting results of the preparatory meeting
- Verification of full contract compliance, including required control inspection and testing
- Establishment of the required level of workmanship and verification that it meets minimum acceptable standard
- Resolution of all differences
- A check of safety requirements to include compliance with and upgrading of the safety plan and activity hazard analysis
- A review of the activity analysis with project personnel

The Base Project Manager and the USACE Resident Engineer/CR will be notified at least 48 hours in advance of any initial phase activity. The CQC Systems Manager/SHSO will document each item on the Inspection Checklist (Figure 3-1) during the initial inspection. This documentation will be attached to the DQCR. The exact location of the initial phase inspection will be indicated for future reference and to allow for comparison with followup inspections.

An initial phase inspection will be conducted each time a new crew arrives on site or any time acceptable specified quality standards are not being met.

3.3 ADDITIONAL PREPARATORY AND INITIAL PHASES

Additional preparatory and initial inspections may be conducted by the CQC Systems Manager/SHSO on the same definable features of work under several circumstances. These include when the quality of ongoing work is unacceptable as determined by the Base Project Manager or the USACE Resident Engineer/CR; when staff, on-site supervision, or work crew changes; when work on a definable feature is resumed after a substantial period of inactivity; or if other problems develop.

3.4 COMPLETION INSPECTION

Completion inspections will be performed as summarized in this section.

3.4.1 Contractor's Quality Control Completion Inspection

The CQC Systems Manager/SHSO or designated Foster Wheeler Environmental QC Inspection personnel will conduct a detailed inspection when all of the work or an increment of work is substantially complete. This inspection will be conducted prior to the prefinal inspection. The Base Project Manager and the USACE Resident Engineer/CR may also participate and will be notified in advance of the inspection date. The work will be inspected for conformance to plans, specifications, quality, workmanship, and completeness. The CQC Systems Manager/SHSO will prepare an itemized list of work not properly completed, inferior workmanship, or work that does not conform to plans and specifications. The list will also include outstanding administrative items such as record (as-built) drawings, O&M manuals, and spare parts. The list will be included in the QC documentation and submitted to the Base Project Manager or designee and the USACE Resident Engineer/CR with an estimated date for correction of each deficiency scheduled within 5 working days after the conduct of the inspection. The completion inspection will be documented on the Inspection Checklist, shown in Figure 3-1, and attached to the DQCR.

3.4.2 Prefinal Inspection

The prefinal inspection will be conducted by the Base Project Manager; the USACE Resident Engineer/CR, Foster Wheeler QC inspection personnel, CQC Systems Manager/SHSO, or other primary management representative, as applicable, will attend. The Base Project Manager or designee in response to notification from the CQC Systems Manager/SHSO prior to the planned inspection date will schedule the prefinal inspection. The CQC Systems Manager/SHSO is required to verify at this time that all specific items previously identified to Foster Wheeler as being unacceptable, along with all remaining project work, will be complete and acceptable by the date scheduled for the prefinal inspection. At this inspection, the Base Project Manager or designee will develop a specific list of incomplete and/or unacceptable work performed under the contract and will provide this list to Foster Wheeler.

3.4.3 Final Acceptance Inspection

The final acceptance inspection will be formally scheduled by the Base Project Manager based on notification from the CQC Systems Manager/SHSO of readiness and will include the QC

FIGURE 3-1 INSPECTION CHECKLIST

ITEM:				DATE:
Contract Specifications:				
MATERIAL:	QTY:	CONDITION:	TESTING:	COMMENTS:
STORAGE CONDITIONS:				
SUBMITTALS:				

FIGURE 3-1 INSPECTION CHECKLIST

MATERIAL/EQUIPMENT CERTIFICATIONS:	
PREPARATORY SITE CONDITIONS:	
CONTRACT VARIANCE:	
COMMENTS:	
ATTENDEES:	
	QC REPRESENTATIVE DATE
	QCSM DATE

FIGURE 3-2 DAILY QUALITY CONTROL REPORT

3. Work Performed Today: (Indicate location and description of work performed by prime and/or subcontractors. When network analysis is used, identify work by NAS activity number.)

4. Control Activities Performed:

- Preparatory Inspections: Identify features of work and attach minutes.
- Initial Inspections: Identify features of work and attach minutes.
- Follow-up Inspections: List inspections performed, results of inspections compared to specification requirements, and corrective actions taken when deficiencies are noted.

5. Tests Performed and Test Results: Identify test requirement by paragraph number in specifications and/or sheet number in plans.

6. Material Received: Note inspection results and storage provided.

FIGURE 3-2 DAILY QUALITY CONTROL REPORT

7. Submittals Reviewed:

(a) Submittal No.	(b) Spec/Plan Reference	(c) By Whom	(d) Action

8. Off-Site Surveillance Activities, Including Action Taken:

9. Job Safety: List items checked, results, instructions, and corrective actions taken.

10. Remarks: Instructions received or given. Conflict(s) in plans and/or specifications. Delays encountered.

Contractor's Verification: On behalf of the Contractor, I certify this report is complete and correct, and all materials and equipment used and work performed during this reporting period are in compliance with the contract plans and specifications, to the best of my knowledge, except as may be noted above.

CQC SYSTEMS MANAGER

DATE

inspection personnel, CQC Systems Manager/SHSO and other primary management personnel as needed, the Base Project Manager, and the USACE Resident Engineer/CR. This notification will be provided prior to the planned final acceptance inspection date and must include verification that all specific items previously identified as being unacceptable, along with all remaining work performed under the contract, will be complete and acceptable by the date scheduled for the final acceptance inspection.

3.4.4 Management Inspections

In addition to the required QC field inspections, one internal management inspection will be performed to ensure adherence for the following:

- Possession and use of approved procedures, standards, and technical specifications
- Conformance with appropriate procedures, standards, and instructions
- Thoroughness of performance
- Identification and completeness of documentation generated during performance

3.4.5 Inspection Documentation

The CQC Systems Manager/SHSO is responsible for the maintenance of the inspection records. Inspection records will be legible and will provide all necessary information clearly to verify that the items or activities inspected conform to the specified requirements or, in the case of nonconforming conditions, provide evidence that the conditions were brought into conformance or otherwise accepted by Foster Wheeler.

All inspection records will be made available to Cannon AFB and USACE through the Foster Wheeler DOM.

4.0 PROJECT DOCUMENTS

Preparation, review, approval, and issuance of documents affecting quality will be controlled to the extent necessary to determine that the documents meet specified requirements. Project documents to be controlled include the following:

- Submittal register
- Inspection documentation
- DQCR
- Test results

- Nonconformance reports
- Project plans

Discussions of the required DQCR and records to be provided to document conferences are included in this section. The DQCR and required inspection documents are described in this CQC Plan in Section 3-1, Construction Inspection Plan. The Nonconformance Report is included in Section 5, Nonconformances.

4.1 DAILY QUALITY CONTROL REPORT

The CQC Systems Manager/SHSO is responsible for maintenance of current records of QC operation, activities, and tests performed, including the work of subcontractors and suppliers. The records will include factual evidence that required QC activities and tests were performed. A DQCR will be completed to document construction activities covered by the CQC Plan and will include the following information:

- Contractor/subcontractor(s) and their area of responsibility
- Operating equipment, with hours worked, idle, or down for repair
- Work performed that day, giving location, description, and by whom
- Test and/or control activities performed with results and references to specifications/plan requirements, including the control phase (preparatory, initial, follow-up) and deficiencies (along with corrective action)
- Material received with statement as to its acceptability and storage
- Submittals reviewed, with contract reference, by whom, and action taken
- Off-site surveillance activities, including actions taken
- Job safety evaluations stating what was checked, results, and instructions or corrective actions
- A list of instructions given/received and conflicts in plans and/or specifications
- Contractor's verification statement
- Site visitors/purpose, deviations from plans, difficulties/resolution

The records will indicate a description of trades working on the project, the number of personnel working, weather conditions encountered, and any delays encountered. Both conforming and nonconforming features will be discussed with a statement that equipment and materials used during the work and workmanship comply with the contract. The original of this report shall be

furnished to the USACE Resident Engineer/CR on the first work day following the date covered by the report, although reports need not be submitted for days on which no work is performed. At a minimum, one report shall be prepared and submitted for every 7 days of no work and on the last day of a no-work period. All calendar days shall be accounted for throughout the life of the contract. The first report following a day of no work will summarize work for that day only. Reports will be signed and dated by the CQC Systems Manager/SHSO and other appropriate personnel, including subcontractors responsible for completion of activities. The report from the CQC Systems Manager/SHSO will include copies of test reports and copies of reports prepared by all subordinate QC personnel.

4.2 MEETING NOTES AND CONFIRMATION NOTICES

In addition to other required documentation, the DOM is responsible for taking notes and preparing reports for all meetings and teleconferences. Notes will be typed and the original report furnished to the USACE within 7 working days after the date of the meeting/biweekly teleconference for concurrence and subsequent distribution to all attendees. At a minimum, this report will include the following items:

- Air Force Project Number, date and time the meeting/teleconference was held, and agenda
- List of attendees, including name, organization, email address, and telephone number (for meetings)
- Written comments presented by attendees attached to each report with the conference action noted: "A" for an approved comment, "D" for a disapproved comment, "W" for a comment that has been withdrawn, and "E" for a comment that has an exception noted
- Comments made during the meeting/teleconference and decisions affecting criteria changes
- Conference notes that augment the written comments
- Documentation of any augmentation of written comments

Project meetings include the scope development meeting held at Cannon AFB, biweekly teleconferences to discuss work progress and project status, one site visit, and project kick-off meeting. The DOM or his designee is also responsible for providing a weekly record of all discussions, verbal directions, telephone conversations, etc., in which Foster Wheeler personnel or their representatives participated on matters relating to this contract and work. These records, which are entitled confirmation notices, will be numbered sequentially and will fully identify

participating personnel, subject discussed, and any conclusions reached. The DOM or designee will forward to the Base Project Manager or designee and the USACE Resident Engineer/CR a reproducible copy of the confirmation notices within 7 working days.

4.3 RECORD DRAWINGS

In addition to the basic requirements for record drawings, all drawings will be developed or modified using Auto-CADD for required submittals. All Auto-CADD drawings will be compatible with the Auto-CADD system used at Cannon AFB. After construction, Foster Wheeler will provide the Base Project Manager with a copy of the Auto-CADD drawing files (on disk) and prints (drawings), which will include the as-constructed site conditions.

4.4 FINAL SUBMITTALS

Specific requirements pertaining to final submittals are provided in this section. Final submittals will be reproduced and distributed by mail to all reviewers via a carrier service that will provide overnight service. All reports shall be printed on recyclable paper to the maximum extent possible.

Partial submittals will not be accepted unless prior approval is given in writing. A cover letter addressed to the Resident Engineer will accompany each final document and will indicate the following information: project, project number, project phase, date comments are due, to whom comments are to be submitted, and the date and location of the review conference, as appropriate. Depending on the recipient, all letters shall be coordinated with the USACE Resident Engineer/CR prior to the submittal date. The cover letter will not be bound into the document.

One unbound copy of each submittal will be provided to USACE and to Cannon AFB when the project is completed. This copy will be in addition to the quantities listed in the submittal register. All final submittals should be error free.

4.5 SUPPORTING DATA AND CALCULATIONS

The tabulation of criteria, data, calculations, cost estimates, etc., that are performed but not included in detail in the report will be assembled as appendices. Criteria provided by the USACE-Omaha District shall be referenced as appropriate. Persons performing and checking

calculations shall place their full names on the first page of all supporting calculations, estimates, etc., and initial the following sheets. The originator of the calculations may not also be the checker. Each sheet shall be dated and numbered in sequence.

4.6 CORRECTIVE MEASURE REPORT

All work performed under this delivery order shall be documented in a final letter report. This report shall include a description of tasks performed, supporting analytical data, DQCRs, and site maps showing the location of any excavated areas and sampling schematic. A draft letter report will first be provided to USACE and Cannon AFB for review; the final report shall incorporate all comments received on the draft report.

5.0 NONCONFORMANCES

5.1 NONCONFORMANCE REPORT

Any work or materials not conforming to the technical specifications or contract requirements will be identified and documented on a Nonconformance Report as indicated in Figure 5-1. The Nonconformance Report will detail the nonconforming condition, recommended corrective action(s), and disposition of the corrective action(s). The Nonconformance Report will remain open until the nonconforming condition has been satisfactorily resolved and verified by QC inspection staff. Upon receipt of notification of detected nonconformances from the USACE Base Project Manager, Nonconformance Reports for each item will be completed.

5.2 IDENTIFICATION OF NONCONFORMING ITEMS

Items identified as nonconforming will be documented on a Nonconformance Report, which will include the following information:

- Description of nonconforming item or activity
- Detailed description of nonconformance
- Referenced criteria
- Recommended disposition and corrective action to prevent recurrence (as applicable)
- Affected organization

5.3 CONTROL AND SEGREGATION

The nonconforming items will be controlled to prevent inadvertent use. All items identified as nonconforming will be clearly identified and segregated from acceptable items when practical.

5.4 DISPOSITION

The disposition of Nonconformance Reports will include the necessary actions required to transform the nonconforming condition into an acceptable condition and may include reworking, replacing, retesting, or reinspecting. Implementation of the disposition may be done in accordance with the original procedural requirements, a specific instruction, or an FCR (Figure 5-2).

5.5 CORRECTIVE ACTIONS

Upon detection of a nonconforming condition, the CQC Systems Manager/SHSO will immediately take corrective action. In addition to resolving identified nonconforming conditions, corrective action records will also address the initial cause of adverse conditions and establish methods and controls to prevent recurrence of the same or similar types of nonconformances. The CQC Systems Manager/SHSO will monitor the corrective actions to verify that they were properly implemented and accepted and that the Nonconformance Report was closed out.

FIGURE 5-1 NONCONFORMANCE REPORT

FOSTER WHEELER ENVIRONMENTAL CORPORATION QUALITY ASSURANCE
REPORT NO(1) _____ NONCONFORMANCE REPORT

CLIENT OR PROJECT (2)		DRAWING NO./SPEC NO. (3)
SUPPLIER, CONSTRUCTION QC, OR CONTRACTOR (4)	P. O. NO. (5)	
DESCRIPTION OF COMPONENT, PART, OR SYSTEM (6)		
I. DESCRIPTION OF NONCONFORMANCE (7) <i>(Items involved, Specifications, Code, or Standard to Which Items Do Not Comply, Submit Sketch if Applicable)</i>		
NAME AND SIGNATURE OF PERSON REPORTING NONCONFORMANCE (8)	TITLE/COMPANY	DATE (9)
II. RECOMMENDED DISPOSITION (10) <i>(Submit Sketch If Applicable)</i>		
NAME AND SIGNATURE OF PERSON RECOMMENDING DISPOSITION (11)	TITLE/COMPANY	DATE (12)
III. EVALUATION OF DISPOSITION BY FOSTER WHEELER ENVIRONMENTAL. REASON FOR DISPOSITION (13)		
IV. CORRECTIVE ACTION (14) ° Required ° Not Required		

FIGURE 5-1 NONCONFORMANCE REPORT

**FOSTER WHEELER ENVIRONMENTAL CORPORATION QUALITY ASSURANCE
REPORT NO(1) _____ NONCONFORMANCE REPORT**

V. <input type="checkbox"/> ENGINEERING	<input type="checkbox"/> QUALITY ASSURANCE	<input type="checkbox"/> CONSTRUCTION	<input type="checkbox"/> OTHER
NAME (SIGNATURE)	NAME (SIGNATURE)	NAME (SIGNATURE)	NAME (SIGNATURE)
DATE	DATE	DATE	DATE
<input type="checkbox"/> ACCEPTED <input type="checkbox"/> REJECTED <input type="checkbox"/> ACCEPTED WITH COMMENTS	<input type="checkbox"/> ACCEPTED <input type="checkbox"/> REJECTED <input type="checkbox"/> ACCEPTED WITH COMMENTS	<input type="checkbox"/> ACCEPTED <input type="checkbox"/> REJECTED <input type="checkbox"/> ACCEPTED WITH COMMENTS	<input type="checkbox"/> ACCEPTED <input type="checkbox"/> REJECTED <input type="checkbox"/> ACCEPTED WITH COMMENTS

VI. VERIFICATION OF DISPOSITION REQUIRED NOT REQUIRED (16)
 (17) BY _____ SIGNATURE _____
 TITLE _____ DATE _____

FIGURE 5-2. FIELD CHANGE REQUEST



FOSTER WHEELER ENVIRONMENTAL CORPORATION
ENGINEERING PROCEDURES
DEVELOPING AND ISSUING ENGINEERING DOCUMENTS

Project _____	Proj. No. _____	Field Change No. _____
TO _____	DEPT _____	LOCATION _____
DATE _____		
RE: ? Drawing No. _____		
Title _____		
? Spec No. _____		
Title _____		
? _____		
Other _____		

1. Description (Items involved, submit sketch if applicable)

2. Reasons for Change (If from disposition of nonconformance report, list report number) _____

3. Recommended Disposition ? Minor Change ? Major Change

4. Resident Engineer (Signature)	Date	Project Supt. Concurrence (Signature)	Date
----------------------------------	------	---------------------------------------	------

FIGURE 5-2. FIELD CHANGE REQUEST

5. Disposition

? NOT APPROVED (Give Reason)

? CONSIDERED MINOR CHANGE – Approved per Recommended Disposition-Design documents will not be normally revised; field to maintain as-built records

? CONSIDERED MAJOR CHANGE - Action will be taken as prescribed on DCN

Lead Discipline Engineer or Designee (Signature)	Date	Project Engineer or Designee	Date

Project Engineer signs and returns to LDE for transmittal to Resident Engineer with copies to:

Project Manager _____ Others as Required _____

Project Supt. _____

Project Files

Attachment E

Site Specific Health and Safety Plan

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Table 1 Key Personnel and Responsibilities.....E.4-1

LIST OF ACRONYMS

AFB	Air Force Base
BTEX	benzene, toluene, ethylbenzene, and xylene
CFR	Code of Federal Regulations
ESS	Environmental Safety Specialist
FID	flame ionization detector
Foster Wheeler	Foster Wheeler Environmental Corporation
HASP	Health and Safety Plan
OSHA	Occupational Safety and Health Administration
PEL	permissible exposure limit
PESM	Project Environmental Safety Manager
PID	photoionization detector
PPE	personal protective equipment
ppm	parts per million
SVOC	semivolatile organic compound
SWMU	solid waste management unit
VOC	volatile organic compound

1.0 INTRODUCTION

This addendum to the Basewide Health and Safety Plan (HASP) provides the site-specific health and safety requirements for soil removal at Solid Waste Management Unit (SWMU) 109, Cannon Air Force Base (AFB), New Mexico. This plan serves as an addendum to the existing Final Basewide HASP for Cannon AFB prepared by Foster Wheeler Environmental Corporation (Foster Wheeler) (Foster Wheeler, 2000). The Basewide HASP contains requirements for personnel and training, site history, a description of the basic scope of work, personnel monitoring and protection, site control, decontamination, hazard evaluation, first-aid practices, and emergency-response activities.

The purpose of the Corrective Measures Implementation is to minimize the threat to human health and the environment at SWMU 109. Site activities for this project consist of removing an area of contaminated soil at SWMU 109, performing verification and confirmation sampling and analysis, disposing of excavated soil, and completing site restoration.

2.0 AIR MONITORING

Air-monitoring action levels have been developed to indicate the chemical concentrations in the breathing zone that require an upgrade in the level of personal protective equipment (PPE).

General air-monitoring guidelines are presented in the Basewide HASP. All site workers will be properly fitted with PPE (i.e., respirators) and trained in their use (i.e., donning and doffing).

Air-monitoring measurements for the worker most likely to have the highest exposure will be taken in the breathing zone. Transient peaks will not automatically trigger action. Action will be taken when levels are consistently exceeded in a 5-minute period. The action levels apply to all tasks performed on this site.

Air monitoring falls into two categories: direct reading/environmental monitoring and personal-exposure monitoring. A photoionization detector (PID), equipped with a 10.2-electron volt lamp, calibrated with isobutylene, and referenced to benzene-in-air (or a flame ionization detector [FID] calibrated with and referenced to methane-in-air), will be used to monitor the breathing zone of workers to assess the potential presence of volatile organic vapors. Isobutylene has ionization potentials below 10 and will produce relative responses of approximately 1:1 using the PID or FID as described above.

PID/FID readings will be obtained during direct push technology operations within the breathing zone. Monitoring will continue intermittently throughout sampling activities at a frequency of once every 15 minutes or another frequency as determined by the Environmental Safety Specialist (ESS), or whenever odors are noticed.

Benzene levels in benzene, toluene, ethylbenzene, and xylene (BTEX) are usually a very minor component of the overall constituents. Although benzene is a very minor contaminant, sustained levels of more than 5 parts per million (ppm) in the breathing zone will require an upgrade of respiratory protection to Level C. Personnel will wear full-face respirators with organic vapor cartridges. If MSA cartridges are used, cartridges will be used for 8 hours per day assuming that the humidity is less than 50 percent, ambient temperature does not exceed 100 degrees Fahrenheit, and total organic vapors as measured by a PID or FID do not exceed 50 ppm at any time. This is a very conservative approach to employee protection because it presumes that

20 percent of the measured organic vapors are benzene, which is extremely unlikely. If cartridges other than MSA are used, the Project Environmental Safety Manager (PESM) should be contacted for a cartridge change schedule from the cartridge manufacturer. Cartridges will be discarded at the end of each shift.

3.0 HAZARD IDENTIFICATION

Attachment 1 presents the potential hazards associated with the activities planned for the soil removal at SWMU 109 and the measures to be taken to mitigate potential hazards in the field. Sections 3.1 and 3.2 present detailed information pertaining to the chemical and physical hazards that may be encountered at the site. Section 3.3 provides project-specific requirements for the levels of personnel protection required during field activities.

3.1 CHEMICAL HAZARDS

Previous soil analytical results from the site were reviewed during the work plan preparation. Contaminants known to be present at the site can be grouped into three categories: semivolatile organic compounds (SVOCs), volatile organic compounds (VOCs) and petroleum hydrocarbons. The planned soil removal sampling offer minimal exposure; therefore, risk is minimal. However, significant exposure to VOCs could occur if soil samples are saturated with "free product" or vapors persist in the breathing zone.

Exposure to the vapors of BTEX greater than the permissible exposure limit (PEL) for each compound, as defined by the Occupational Safety and Health Administration (OSHA), may produce irritation of the mucous membranes of the upper respiratory tract, nose, and mouth. Overexposure may also result in the depression of the central nervous system. Symptoms of such exposure include drowsiness, headache, fatigue, and drunken-like behavior. Benzene has been determined to be carcinogenic, targeting blood-forming organs and bone marrow.

Exposure to the vapors of many chlorinated organic compounds, such as tetrachloroethylene and trichloroethylene, above their PELs will result in similar symptoms. The actual PELs, as set by the OSHA, vary depending on the specific compound.

Overexposure to the vapor from these compounds can cause irritation of the eyes, nose, and throat. The liquid, if splashed in the eyes, may cause burning, irritation, and damage. Repeated or prolonged skin contact with the liquid may cause dermatitis. Acute overexposure to chlorinated hydrocarbons depresses the central nervous system and causes such symptoms as drowsiness, dizziness, headache, blurred vision, incoordination, mental confusion, flushed skin, tremors, nausea, vomiting, fatigue, and cardiac arrhythmia. Alcohol may worsen symptoms of

overexposure. If alcohol has been consumed, the overexposed worker may become flushed. Some of these compounds are considered to be potential human carcinogens.

The vapor pressures of these compounds are high enough to generate significant quantities of airborne vapor. On sites where high concentrations of these compounds are present, this situation can result in a potential inhalation hazard to the field team during subsurface investigations. However, if the site is open and the anticipated quantities of VOC and SVOC contamination are small (i.e., ppm concentrations in the soil), overexposure potential will also be low.

3.2 PHYSICAL HAZARDS

The use of trucks, backhoes, and other mechanical equipment presents potentially serious construction hazards. Whenever such equipment is used, personnel in the vicinity shall be limited to those who must be present to complete their assigned duties. All personnel must avoid standing within the turning radius of the equipment or below any suspended load. Job sites must be kept as clean, orderly, and sanitary as possible. When water is used, care must be taken to avoid creating muddy or slippery conditions. If slippery conditions are unavoidable, barriers and warning signs must be used to warn of these dangers.

A "Competent Person" must perform frequent and regular inspection of the site, materials, and equipment, in accordance with Title 29 of the Code of Federal Regulations (CFR) 1926.20, to identify site hazards. All personnel on site shall be provided with the information and training necessary to avoid accidental injury and to assure that the site is maintained in such a way that slip, trip, and fall hazards are recognized and eliminated or controlled. Basic PPE (steel-toe boots, hard hats, and safety eyewear) must be available and their use enforced. Hearing protection will be worn by personnel in contact with drilling equipment.

3.2.1 Fire and Explosion

The possibility of flammable materials being encountered during field activities must be recognized, and the appropriate steps necessary to minimize fire and explosion must be observed. This procedure applies to situations where excessive organic vapors or free products are

encountered. At least one 10-pound ABC fire extinguisher must be located within 100 feet of each work area.

3.2.2 Heat and Cold Stress

Overexposure to temperature extremes can represent significant risks to personnel if simple precautions are not observed. Typical control measures designed to prevent heat stress, including dressing properly, drinking plenty of the right fluids, and establishing an appropriate work/break regimen must be taken. Typical control measures designed to prevent cold stress also include dressing properly and establishing an appropriate work/break regimen. The project manager must assure that the appropriate measures are observed.

3.2.3 Moving Vehicles and Traffic Safety

All vehicular traffic routes that could impact worker safety must be identified and communicated. Whenever necessary, barriers or other methods must be established to prevent injury from moving vehicles. This is particularly important when field activities are conducted in parking lots, driveways, ramps, or roadways. Title 29 CFR 1926.201 specifies that when signs, signals, or barricades do not provide adequate protection from highway or street traffic, flagmen must be used. Flagmen must wear red or orange garments, and garments worn at night must be reflective.

3.2.4 Pedestrian Traffic

The uncontrolled presence of pedestrians during drilling activities can be hazardous to both pedestrians and site workers. Prior to the initiation of site activities, the site shall be surveyed to determine if, when, and where pedestrians may gain access. These access areas include walkways, parking lots, gates, and doorways. Exclusion zones constructed of barriers or caution tape shall be used to exclude all pedestrian traffic. Exclusion of pedestrian traffic is intended to prevent injury to the pedestrians and eliminate distractions, which could cause injury to site workers.

3.2.5 Manual Lifting and Material Handling

The following procedures shall be adhered to for manual lifting and material handling:

- Always bend at the knees when lifting heavy objects such as sample coolers and equipment cases.
- Keep the weight close to your body. Do not twist or turn the body while lifting.
- Get help or use a mechanical device when lifting awkward-shaped objects or objects too heavy to comfortably lift alone.

3.3 PERSONNEL PROTECTION

The ESS shall determine the level of protection required during field activities and whether the level of protection needs to be upgraded or downgraded. Appropriate documentation shall be forwarded to the PESM. It is anticipated that Level D or modified Level D will be required for all field activities. Requirements for Level D and modified Level D are discussed below.

3.3.1 Level D Protection

The following PPE shall be considered typical Level D protection:

- Coveralls
- Leather or chemical-resistant work boots with a steel toe and shank
- Work gloves
- Safety glasses, chemical splash goggles, or a face shield (as determined by the ESS)
- Hard hat (as determined by the ESS)
- Hearing protection (as determined by the ESS)
- Outer latex disposable boots (as determined by the ESS)
- Disposable nitrile outer gloves and latex inner gloves (required for sampling)

3.3.2 Modified Level D Protection

Level C protection is not anticipated; however, modified Level D protection shall be used when an increased need for dermal protection is recognized or if air-monitoring results are above action levels (1 ppm for benzene).

3.3.3 Level C Protection

Level C protection is not anticipated.

4.0 PROJECT PERSONNEL AND EMERGENCY PROCEDURES

Key project personnel on Delivery Order 28, Work Authorization Directive 1, their responsibilities, and telephone numbers are provided in Table 1. Emergency contacts for this project are provided in the health and safety contact summary sheet (Attachment 2). Mr. James Morning of Foster Wheeler will serve as the ESS, providing health and safety support throughout the field program.

Table 1. Key Personnel and Responsibilities

Name	Responsibility	Telephone Numbers
Carol Bieniulis	Delivery Order Manager	(505) 878-8924 Office (505) 934-0879 Cell
Charley Haddox	Task Order Manager	(303) 980-3533 Office
James Morning, OHST	Foster Wheeler Cannon AFB Site Manager/ESS	(505) 479-2668 Office (505) 430-2307 Cell
Roger Margotto, CIH	PESM	(619) 234-8696 (ext. 203) Office (714) 810-3742 Pager

4.1 HOSPITAL ROUTE

Attachment 3 contains a route map with directions to the civilian hospital in Clovis, New Mexico.

4.2 AGREEMENT AND ACKNOWLEDGMENT

All project personnel on site, subcontractor personnel, and visitors are required to read the Basewide HASP and the site-specific addendum and sign the agreement and acknowledgment sheet (Attachment 4) prior to conducting field activities. Foster Wheeler personnel have the authority to stop field activities at this site if an activity is not performed in accordance with the requirements of the HASP or site-specific addendum.

5.0 INCIDENT REPORTING

In the event of an accident or incident, an incident report and investigation form, as provided in the Basewide HASP, must be completed within 24 hours. This is an internal reporting document. In addition to current Foster Wheeler incident reporting procedures, accident investigation procedures pursuant to United States Army Corps of Engineers EM 385-1-1, Section 1d should be implemented.

Depending upon the nature of the incident, additional agencies or individuals that may need to be notified include the United States Environmental Protection Agency, New Mexico Environment Department, OSHA, and the base point of contact. Unless otherwise mandated by law, no outside agency may be contacted without explicit approval by the United States Air Force.

6.0 REFERENCES

Foster Wheeler Environmental Corporation

2000 Final Basewide Health and Safety Plan (Update) for Cannon Air Force Base. Prepared for 27 CE/CEV, Cannon Air Force Base, New Mexico, and HQ ACC/ESVR, Langley Air Force Base, Virginia.

SITE-SPECIFIC HEALTH AND SAFETY PLAN ADDENDUM

IDENTIFICATION AND APPROVALS

PROJECT NAME: Soil Removal at SWMU 109
LOCATION: Cannon Air Force Base
CONTRACT NUMBER: DACW45-94-D-0003
Delivery Order No. 28
Work Authorization Directive 7
CLIENT: U.S. Army Corps of Engineers—Omaha District
Omaha, Nebraska
DATE PREPARED: May 17, 2000
REVISION: 0
PREPARED BY: James Morning, OHST

REVIEWER'S APPROVALS

Carol Bieniulis
Delivery Order Manager

Tom Zink, PG
USACE Project Manager

Roger Margotto, C.I.H.
Project Environmental Safety Manager

Carrie Ables
USACE Industrial Hygienist

James Morning, OHST
Environmental Safety Specialist/Site Mgr.

Attachment 1
Activity Hazard Analysis

HAZARD ANALYSIS #1

Activity: Mobilization and Site Setup

Analyzed By/Date: Roger Margotto 04/28/00

Reviewed By: Roger Margotto, CIH

Principal Steps	Potential Hazards	Recommended Controls
Set up Work Area	Potential exposure to chemical hazards.	<ul style="list-style-type: none"> • Delineate exclusion zones and use specified PPE. • Ambient air monitoring and visual observation shall be used to verify selection of PPE. • Use water-spraying procedures for dust control measures. • Identify all chemical hazards and receive training regarding safe handling of chemicals. Material Safety Data Sheets Appendix E.
	Noise exposure.	<ul style="list-style-type: none"> • Hearing protection is required when sound levels exceed 84 dBA continuously. Areas where hearing protection is required shall display warning signs requiring hearing protection.
	Slip, trip and fall hazards.	<ul style="list-style-type: none"> • Work areas shall be visually inspected and slip, trip, and fall hazards shall be marked, barricaded, or eliminated, if feasible. • Maintain proper illumination in all work areas. • Refer to EHS Procedure 3-8 "Fall Protection".
	Sharp objects/punctures.	<ul style="list-style-type: none"> • Wear cut resistant work gloves when sharp edges or other objects may cause the possibility of lacerations or other injury. When possible sharp edges will be blunted. • Workers should not stand or walk on debris.

HAZARD ANALYSIS #1**Activity:** Mobilization and Site Setup**Analyzed By/Date:** Roger Margotto 04/28/00**Reviewed By:** Roger Margotto, CIH

Principal Steps	Potential Hazards	Recommended Controls
	Strains from manually moving materials and equipment.	<ul style="list-style-type: none"> • Personnel shall be directed to use proper lifting techniques such as keeping the back straight, lifting with the legs, limiting twisting, and getting help in moving bulky/heavy materials and equipment. • Use of hand truck shall be encouraged. • Employees will not lift more than 50 pounds. • Refer to EHS Procedure 3-1 "Ergonomics".
	Exposure to extreme temperatures.	<ul style="list-style-type: none"> • Monitor for heat and cold stress in accordance with EHS Procedure 4-6 "Temperature Extremes". • Provide fluids and rest breaks during warm weather and while wearing impermeable protective clothing.
	Eye hazards.	<ul style="list-style-type: none"> • Safety glasses are the minimum required eye protection for all work areas.
	Struck by or against heavy equipment.	<ul style="list-style-type: none"> • Wear high visibility reflective vests. • Make eye contact with operators before approaching equipment. • Understand and review posted hand signals. • Traffic barricades, signs, flags, and backup spotters will be used during field activities.

HAZARD ANALYSIS #1

Activity: Mobilization and Site Setup

Analyzed By/Date: Roger Margotto 04/28/00

Reviewed By: Roger Margotto, CIH

Equipment to be Used	Inspection Requirements	Training Requirements
Heavy equipment, hand tools	Daily and before use.	<ul style="list-style-type: none">• Only trained equipment operators may operate heavy equipment; only Department of Motor Vehicles licensed personnel will operate trucks.• Specific training for power tools, hand tools, and electrical safety.

Notes:

PPE – personal protective equipment.

HAZARD ANALYSIS #2

Activity: Soil Excavation, Backfilling and Hauling **Analyzed By/Date:** Roger Margotto 04/28/00 **Reviewed By:** Roger Margotto, CIH

Principal Steps	Potential Hazards	Recommended Controls
Excavation	Contact with underground utilities.	<ul style="list-style-type: none"> • Physically verify the location and depth of existing utilities prior to starting excavation through geophysical and utility survey. • Call Underground Services Alert or Dig-Alert prior to any disturbance of ground. • Protect all existing utilities during excavation. • Perform excavation within 18 inches of existing utilities by hand.
	Struck by or against heavy equipment.	<ul style="list-style-type: none"> • Wear reflective warning vests when exposed to vehicular traffic. • Avoid equipment swing areas. • Make eye contact with operators before approaching equipment. • Understand and review posted hand signals.
	Exposure to chemical contaminants.	<ul style="list-style-type: none"> • Conduct air monitoring for contaminants as excavation activities proceed.
	Excavation hazards.	<ul style="list-style-type: none"> • Follow EHS Procedure 6-2 "Excavation and Trenching". • Ensure proper shoring or sloping. • Use diversion ditches, dikes, or other means to prevent surface water from entering an excavation and to provide good drainage of the area adjacent to the excavation. • Daily inspections of excavation, the adjacent areas and protective systems shall be made by the project assigned competent person. The excavation/trenching permit must also be completed by the competent person each day.

HAZARD ANALYSIS #2

Activity: Soil Excavation, Backfilling and Hauling **Analyzed By/Date:** Roger Margotto 04/28/00 **Reviewed By:** Roger Margotto, CIH

Principal Steps	Potential Hazards	Recommended Controls
		<ul style="list-style-type: none"> • Maintain eye contact with operators. Personnel must wear visible vests. • Avoid climbing on berms and stockpiles. • Handle soil carefully to avoid dust generation.
	Strains from use of tools, such as shovels.	<ul style="list-style-type: none"> • Maintain steady pace when using tools and take adequate rest periods. • Use appropriate tools for the task and maintain tools in good condition.
	Heavy equipment hazards.	<ul style="list-style-type: none"> • Equip all heavy equipment on this project with rollover protection systems and backup alarms. • Stay clear of moving equipment unless necessary. • Inspect all equipment daily before use to ensure proper maintenance is being performed. • Make eye contact with operator, heavy equipment has right-of-way.
Shoring, if used to protect employees, if employees must enter the excavation	Improper construction or installation leading to collapse of excavation wall.	<ul style="list-style-type: none"> • Follow the requirements of EM 385-1-1 Section 25D "Support Systems". • Insure support system is installed according to specifications and is capable of supporting sidewall of excavation. • All support systems are to be inspected by a qualified engineer.
Backfilling	Struck by or against heavy equipment or trucks.	<ul style="list-style-type: none"> • Wear reflective warning vests. • Avoid equipment swing areas. • Make eye contact with operators before approaching equipment or trucks. • Understand and review posted hand signals.

HAZARD ANALYSIS #2

Activity: Soil Excavation, Backfilling and Hauling **Analyzed By/Date:** Roger Margotto 04/28/00 **Reviewed By:** Roger Margotto, CIH

Principal Steps	Potential Hazards	Recommended Controls
Hauling	Struck by or against heavy equipment or trucks.	<ul style="list-style-type: none"> • Establish and follow a traffic control plan. • Wear reflective warning vests. • Avoid equipment swing areas, and designated traffic routes. • Make eye contact with operators before approaching equipment or trucks. • Understand and review posted hand signals.
	Loading trucks.	<ul style="list-style-type: none"> • Prohibit truck drivers from standing near trucks as they are being loaded. • Prohibit truck drivers from sitting in the cab of trucks as they are being loaded, unless the truck is equipped with a cab protector.
	Spread of contamination off site.	<ul style="list-style-type: none"> • Decontaminate truck exterior before they leave the exclusion zone. • Tarp truck when hauling contaminated soil.

Equipment to be Used	Inspection Requirements	Training Requirements
Heavy equipment, dump trucks	Daily or before use.	<p>Only trained equipment operators may operate heavy equipment; only Department of Motor Vehicles-licensed personnel will operate trucks.</p> <p>Specific training for power tools, hand tools, and electrical safety.</p> <p>Competent person for excavations required.</p>

HAZARD ANALYSIS #3

Activity: Soil Sampling

Analyzed By/Date: Roger Margotto 04/28/00

Reviewed By: Roger Margotto, CIH

Principal Steps	Potential Hazards	Recommended Controls
Collecting soil and groundwater samples	Back strains.	<ul style="list-style-type: none"> • Follow EHS Procedure 3-1 “Ergonomics”. • Avoid prolonged repetitive motion. Rotate job tasks with other workers. • Use pivot and shift technique when shoveling soil into buckets. • Get help or use mechanical lifting devices for heavy loads.
	Exposure to chemical contaminants.	<ul style="list-style-type: none"> • Wear required PPE and respiratory protection as specified in the SHSP. • Visual inspection and ambient air monitoring will determine selection of PPE and respiratory protection. • Remove PPE properly and wash hands.
	Slips, trips, and falls. Strains from use of tools such as shovels.	<ul style="list-style-type: none"> • Maintain good housekeeping as per EHS Procedure 3-8 “Fall Protection”. • Mark or remove all identified trip and slip hazards. • Maintain proper illumination in work areas. • Inspect all tools for damage before use. • Do not use damaged tools “out of service” and tag “out of service”. • Maintain steady pace and follow the rest periods given on the job. • Use appropriate tools for the task and maintain in good condition.
Sample handling	Atmospheric and contact hazards from contaminated soil or water.	<ul style="list-style-type: none"> • Wear required PPE and respiratory protection. • Selection of PPE and respiratory protection will be determined by visual inspection and ambient air monitoring. • Decontaminate exteriors of sample containers. Avoid spills. Insure spill cleanup supplies are available.

HAZARD ANALYSIS #3

Activity: Soil Sampling

Analyzed By/Date: Roger Margotto 04/28/00

Reviewed By: Roger Margotto, CIH

Equipment to be Used	Inspection Requirements	Training Requirements
Hand tools	Daily and before use.	• Specific training for hand tools.

Notes:

PPE – Personal protective equipment.

HAZARD ANALYSIS #4

Activity: Demobilization and Site Restoration

Analyzed By/Date: Roger Margotto 04/28/00

Reviewed By: Roger Margotto, CIH

Principal Steps	Potential Hazards	Recommended Controls
Decontaminate equipment	<p>Atmospheric and contact hazards.</p> <p>Slip, trip, and fall hazards.</p> <p>Exposure to high temperatures.</p> <p>Strains from manually moving materials and equipment.</p>	<ul style="list-style-type: none"> • Wear required personal protective equipment (PPE). • Use ambient air monitoring and visual monitoring to verify PPE selection. • Visually inspect work areas and slip, trip, and fall hazards will be marked, barricaded, or eliminated as feasible. • Maintain proper illumination in all work areas. • Refer to EHS Procedure 3-8 "Fall Protection". • Monitor for heat stress in accordance with EHS Procedure 4-6 "Temperature Extremes" • Maintain fluid intake, take breaks as needed. • Use proper lifting techniques such as keep back straight, lift with legs, limit twisting, and get help in moving bulky/heavy materials and equipment. • Use of lifting devices whenever possible. • Refer to EHS Procedure 3-1 "Ergonomics". • Do not lift more than 50-pounds without help.
Demobilization and site restoration	<p>Struck by or against heavy equipment.</p> <p>Electrocution.</p>	<ul style="list-style-type: none"> • Wear high visibility reflective vests when exposed to vehicle traffic. Make eye contact with operators before approaching equipment. • Understand and review posted hand signals. • Use traffic barricades, signs, flags, and backup spotters during demobilization. • Allow only qualified electricians to disconnect electrical circuits. • Inspect all extension cords daily for structural integrity, ground continuity, and damaged areas. • Document extension cord inspection.

HAZARD ANALYSIS #4

Activity: Demobilization and Site Restoration Analyzed By/Date: Roger Margotto 04/28/00 Reviewed By: Roger Margotto, CIH

Principal Steps	Potential Hazards	Recommended Controls
		<ul style="list-style-type: none"> • Use ground fault circuit interrupters (GFCI) on all outdoor 115 to 120 volt, 20 ampere or less, circuits. • Cover or elevate electric wire or flexible cord passing through work area to protect it from damage by foot traffic, vehicles, sharp corners, projections, or pinching. • Keep plugs and receptacles out of water unless they are approved submersible type. • Ground all electrical circuits in accordance with the National Electrical Code or other applicable regulations or standards. • Temporary wiring is not allowed to pass through walls, doors, windows (extension cords are one type of temporary wiring).
	<p>Struck by or against heavy equipment.</p> <p>Material handling.</p> <p>Strains from manually moving materials and equipment.</p>	<ul style="list-style-type: none"> • Wear high visibility reflective vests. • Make eye contact with operators before approaching equipment. • Understand and review posted hand signals. • Use traffic barricades, signs, flags, and backup spotters during demobilization. • Identify and avoid pinch points. • Maintain communication with others involved in material handling. • Use appropriate PPE. • Use proper lifting techniques such as keep back straight, lift with legs, limit twisting, and get help in moving bulky/heavy materials and equipment. • Use lifting devices whenever possible. • Refer to EHS Procedure 3-1 "Ergonomics".

HAZARD ANALYSIS #4

Activity: Demobilization and Site Restoration **Analyzed By/Date:** Roger Margotto 04/28/00 **Reviewed By:** Roger Margotto, CIH

Equipment to be Used	Inspection Requirements	Training Requirements
Heavy equipment, hand tools, power tools	Daily or before use.	<ul style="list-style-type: none"> • Only trained equipment operators may operate heavy equipment; only Department of Motor Vehicles-licensed personnel will operate trucks. • Specific training for power tools, hand tools, and electrical safety.

Notes:

- GFCI - Ground fault circuit interrupters.
- H&S - Health and Safety.
- PPE - Personal protective equipment.
- ROPS - Roll-over protection systems.

Attachment 2

Health and Safety Contact Summary Sheet

HEALTH AND SAFETY CONTACT SUMMARY SHEET

Foster Wheeler Environmental Corporation—Albuquerque Office

Telephone No.: (505) 878-8900

Address: 6605 Uptown Blvd., Suite 220, Albuquerque, NM 87110

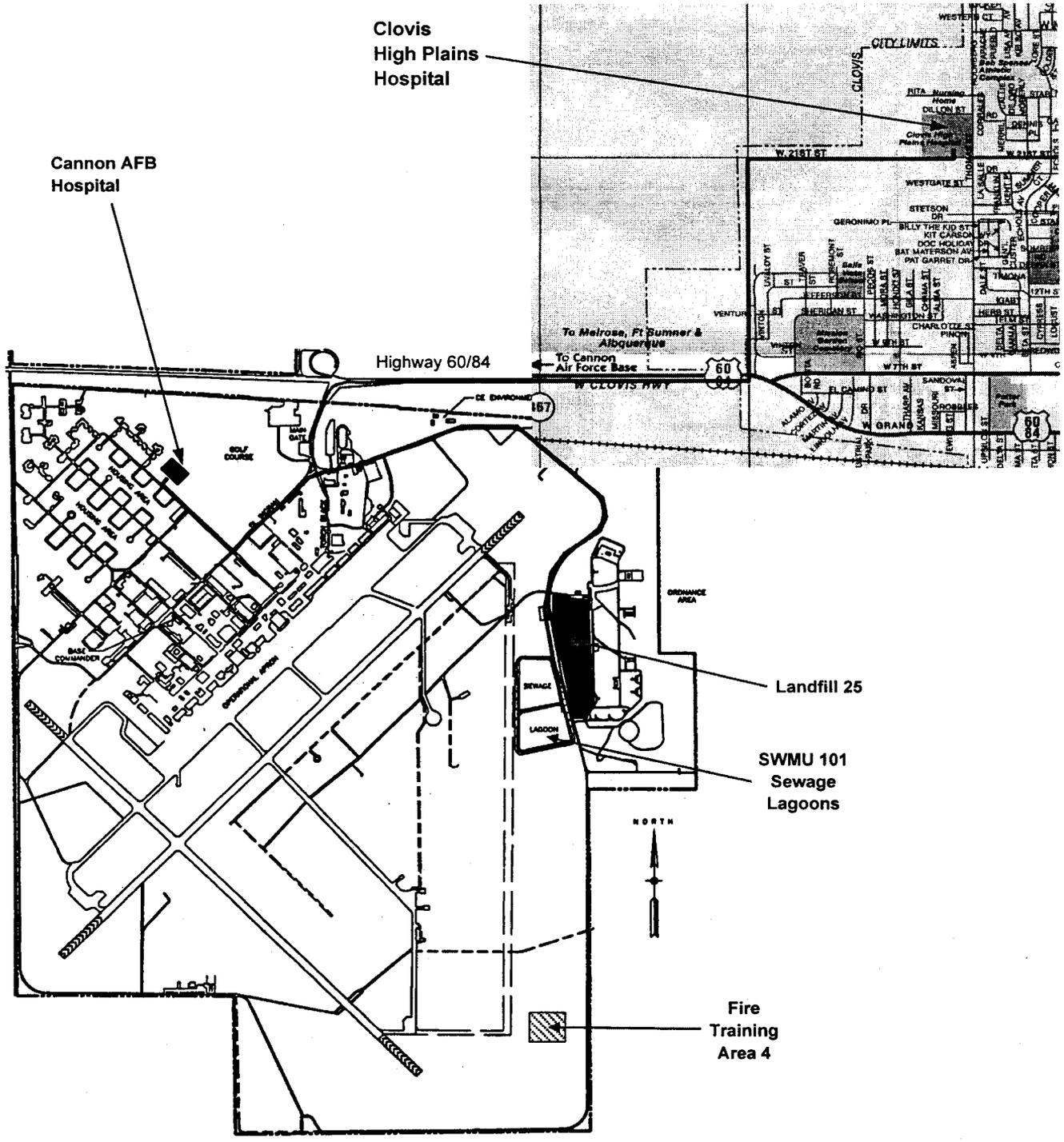
CONTACT NAME/TELEPHONE NUMBERS

Name and Title	Telephone No.
Carol Bieniulis, Delivery Order Manager	(505) 878-8924 (505) 934-0879 Cell
Charley Haddox, Task Manager	(303) 980-3533
Sanford Hutsell, Base Point of Contact	(505) 784-6378
James Morning, Foster Wheeler Site Manager/EES	(505) 479-2668 (505) 430-2307 Cell

EMERGENCY TELEPHONE NUMBERS

Agency	Telephone No.
Ambulance (Base)	(505) 784-4033
Fire Department (Base)	(505) 784-2578
Base Hospital	(505) 432-6866
Poison Control	(800) 432-6866
EPA (information line)	(800) 424-9346
National Response Center	(800) 424-8802
Chemtrec	(800) 424-9300
Civilian Hospital (Clovis) Clovis High Plains Hospital	(505) 769-2141

Attachment 3
Route to Hospital



Scale in Feet is Approximate

SITE SPECIFIC HEALTH AND SAFETY PLAN ADDENDUM

Cannon Air Force Base, New Mexico
 U.S. Army Corps of Engineers, Omaha District

Figure E-1
Hospital Route Map

Attachment 4

Health and Safety Plan Acknowledgment

Attachment 5
Material Safety Data Sheets


Genium Publishing Corporation

One Genium Plaza
Schenectady, NY 12304-4690 USA
(518) 377-8854

Material Safety Data Sheets Collection:

Sheet No. 467
Automotive Gasoline, Lead-free

Issued: 10/81

Revision: A, 9/91

Section 1. Material Identification

Automotive Gasoline, Lead-free, Description: A mixture of volatile hydrocarbons composed mainly of branched-chain paraffins, cycloparaffins, olefins, naphthenes, and aromatics. In general, gasoline is produced from petroleum, shale oil, Athabasca tar sands, and coal. Motor gasolines are made chiefly by cracking processes, which convert heavier petroleum fractions into more volatile fractions by thermal or catalytic decomposition. Widely used as fuel in internal combustion engines of the spark-ignited, reciprocating type. Automotive gasoline has an octane number of approximately 90. A high content of aromatic hydrocarbons and a consequent high toxicity are also associated with a high octane rating. Some gasolines sold in the US contain a minor proportion of tetraethyllead, which is added in concentrations not exceeding 3 ml per gallon to prevent engine "knock." However, methyl-tert-butyl ether (MTBE) has almost completely replaced tetraethyllead.

Other Designations: CAS No. 8006-61-9, benzin, gasoline, gasolene, motor spirits, natural gasoline, petrol.
Manufacturer: Contact your supplier or distributor. Consult latest *Chemical Week Buyers' Guide*⁽²⁾ for a suppliers list.

R 1
I 2
S 2*
K 4
* Skin absorption



NFPA
H 2
F 3
R 1
PPG†
† Sec. 8

Cautions: Inhalation of automotive gasoline vapors can cause intense burning in throat and lungs, central nervous system (CNS) depression, and possible fatal pulmonary edema. Gasoline is a dangerous fire and explosion hazard when exposed to heat and flames.

Section 2. Ingredients and Occupational Exposure Limits

Automotive gasoline, lead-free*

1990 OSHA PELs

8-hr TWA: 300 ppm, 900 mg/m³
15-min STEL: 500 ppm, 1500 mg/m³

1990-91 ACGIH TLVs

TWA: 300 ppm, 890 mg/m³
STEL: 500 ppm, 1480 mg/m³

1990 NIOSH REL

None established

1985-86 Toxicity Data*

Man. inhalation, TC₁₀: 900 ppm/1 hr; toxic effects include sense organs and special senses (conjunctiva irritation), behavioral (hallucinations, distorted perceptions), lungs, thorax, or respiration (cough)
Human eye: 140 ppm/8 hr; toxic effects include mild irritation
Rat. inhalation, LC₅₀: 300 g/m³/5 min

* A typical modern gasoline composition is 80% paraffins, 14% aromatics, and 6% olefins. The mean benzene content is approximately 1%. Other additives include sulfur, phosphorus, and MTBE.

† See NIOSH, RTECS (LX3300000), for additional toxicity data.

Section 3. Physical Data

Boiling Point: Initially, 102 °F (39 °C); after 10% distilled, 140 °F (60 °C); after 50% distilled, 230 °F (110 °C); after 90% distilled, 338 °F (170 °C); final boiling point, 399 °F (204 °C)

Vapor Density (air = 1): 3.0 to 4.0

Density/Specific Gravity: 0.72 to 0.76 at 60 °F (15.6 °C)

Water Solubility: Insoluble

Appearance and Odor: A clear (gasoline may be colored with dye), mobile liquid with a characteristic odor recognizable at about 10 ppm in air.

Section 4. Fire and Explosion Data

Flash Point: -45 °F (-43 °C)

Autoignition Temperature: 536 to 853 °F (280 to 456 °C)

LEL: 1.3% v/v

UEL: 6.0% v/v

Extinguishing Media: Use dry chemical, carbon dioxide, or alcohol foam as extinguishing media. Use of water may be ineffective to extinguish fire, but use water spray to knock down vapors and to cool fire-exposed drums and tanks to prevent pressure rupture. Do not use a solid stream of water since it may spread the fuel.

Unusual Fire or Explosion Hazards: Automobile gasoline is an OSHA Class IB flammable liquid and a dangerous fire and explosion hazard when exposed to heat and flames. Vapors can flow to an ignition source and flash back. Automobile gasoline can also react violently with oxidizing agents.

Special Fire-fighting Procedures: Isolate hazard area and deny entry. Since fire may produce toxic fumes, wear a self-contained breathing apparatus (SCBA) with a full facepiece operated in pressure-demand or positive-pressure mode, and full protective clothing. When the fire is extinguished, use nonsparking tools for cleanup. Be aware of runoff from fire control methods. Do not release to sewers or waterways.

Section 5. Reactivity Data

Stability/Polymerization: Automotive gasoline is stable at room temperature in closed containers under normal storage and handling conditions. Hazardous polymerization cannot occur.

Chemical Incompatibilities: Automotive gasoline can react with oxidizing materials such as peroxides, nitric acid, and perchlorates.

Conditions to Avoid: Avoid heat and ignition sources.

Hazardous Products of Decomposition: Thermal oxidative decomposition of automotive gasoline can produce oxides of carbon and partially oxidized hydrocarbons.

No. 467 Automotive Gasoline, Lead-free 9/91

Section 6. Health Hazard Data

Carcinogenicity: In 1990 reports, the IARC list gasoline as a possible human carcinogen (Group 2B). Although the IARC has assigned an overall evaluation to gasoline, it has not assigned an overall evaluation to specific substances within this group (inadequate human evidence).

Summary of Risks: Gasoline vapors are considered moderately poisonous. Vapor inhalation can cause central nervous system (CNS) depression and mucous membrane and respiratory tract irritation. Brief inhalations of high concentrations can cause a fatal pulmonary edema. Reported responses to gasoline vapor concentrations are: 160 to 270 ppm causes eye and throat irritation in several hours; 500 to 900 ppm causes eye, nose, and throat irritation, and dizziness in 1 hr, and 2000 ppm produces mild anesthesia in 30 min. Higher concentrations are intoxicating in 4 to 10 minutes. If large areas of skin are exposed to gasoline, toxic amounts may be absorbed. Repeated or prolonged skin exposure causes dermatitis. Certain individuals may develop hypersensitivity. Ingestion can cause CNS depression. Pulmonary aspiration after ingestion can cause severe pneumonitis. In adults, ingestion of 20 to 50 g gasoline may produce severe symptoms of poisoning.

Medical Conditions Aggravated by Long-Term Exposure: None reported.

Target Organs: Skin, eye, respiratory and central nervous systems.

Primary Entry Routes: Inhalation, ingestion, skin contact.

Acute Effects: Acute inhalation produces intense nose, throat, and lung irritation; headaches; blurred vision; conjunctivitis; flushing of the face; mental confusion; staggering gait; slurred speech; and unconsciousness, sometimes with convulsions. Ingestion causes inebriation (drunkenness), vomiting, dizziness, fever, drowsiness, confusion, and cyanosis (a blue to dark purplish coloration of skin and mucous membrane caused by lack of oxygen). Aspiration causes choking, cough, shortness of breath, increased rate of respiration, excessively rapid heartbeat, fever, bronchitis, and pneumonitis. Other symptoms following acute exposure include acute hemorrhage of the pancreas, fatty degeneration of the liver and kidneys, and passive congestion of spleen.

Chronic Effects: Chronic inhalation results in appetite loss, nausea, weight loss, insomnia, and unusual sensitivity (hyperesthesia) of the distal extremities followed by motor weakness, muscular degeneration, and diminished tendon reflexes and coordination. Repeated skin exposure can cause blistering, drying, and lesions.

FIRST AID

Eyes: Gently lift the eyelids and flush immediately and continuously with flooding amounts of water until transported to an emergency medical facility. Consult a physician immediately.

Skin: Quickly remove contaminated clothing. Rinse with flooding amounts of water for at least 15 min. For reddened or blistered skin, consult a physician. Wash affected area with soap and water.

Inhalation: Remove exposed person to fresh air and support breathing as needed.

Ingestion: Never give anything by mouth to an unconscious or convulsing person. If ingested, *do not induce vomiting* due to aspiration hazard. Give conscious victim a mixture of 2 tablespoons of activated charcoal mixed in 8 oz of water to drink. Consult a physician immediately.

After first aid, get appropriate in-plant, paramedic, or community medical support.

Section 7. Spill, Leak, and Disposal Procedures

Spill/Leak: Notify safety personnel, evacuate all unnecessary personnel, remove heat and ignition sources, and provide maximum explosion-proof ventilation. Cleanup personnel should protect against vapor inhalation and liquid contact. Use nonsparking tools. Take up small spills with sand or other noncombustible adsorbent. Dike storage areas to control leaks and spills. Follow applicable OSHA regulations (29 CFR 1910.120).

Aquatic Toxicity: Bluegill, freshwater, LC₅₀ 8 ppm/96 hr.

Disposal: Contact your supplier or a licensed contractor for detailed recommendations. Follow applicable Federal, state, and local regulations.

EPA Designations

RCRA Hazardous Waste (40 CFR 261.21): Characteristic of ignitability

CERCLA Hazardous Substance (40 CFR 302.4): Not listed

SARA Extremely Hazardous Substance (40 CFR 355): Not listed

SARA Toxic Chemical (40 CFR 372.65): Not listed

OSHA Designations

Listed as an Air Contaminant (29 CFR 1910.1000, Table Z-1-A)

Section 8. Special Protection Data

Goggles: Wear protective eyeglasses or chemical safety goggles, per OSHA eye- and face-protection regulations (29 CFR 1910.133). Since contact lens use in industry is controversial, establish your own policy.

Respirator: Seek professional advice prior to respirator selection and use. Follow OSHA respirator regulations (29 CFR 1910.134) and, if necessary, wear a NIOSH-approved respirator. There are no specific NIOSH recommendations. However, for vapor concentrations not immediately dangerous to life or health, use chemical cartridge respirator equipped with organic vapor cartridge(s), or a supplied-air respirator. For emergency or nonroutine operations (cleaning spills, reactor vessels, or storage tanks), wear an SCBA. *Warning! Air-purifying respirators do not protect workers in oxygen-deficient atmospheres.*

Other: Wear impervious gloves, boots, aprons, and gauntlets to prevent prolonged or repeated skin contact. Materials such as neoprene or polyvinyl alcohol provide excellent/good resistance for protective clothing. Note: Resistance of specific materials can vary from product to product.

Ventilation: Provide general and local explosion-proof exhaust ventilation systems to maintain airborne concentrations below the OSHA PELs (Sec. 2). Local exhaust ventilation is preferred since it prevents contaminant dispersion into the work area by controlling it at its source.⁽¹⁰³⁾

Safety Stations: Make available in the work area emergency eyewash stations, safety/quick-drench showers, and washing facilities.

Contaminated Equipment: Remove this material from your shoes and equipment. Launder contaminated clothing before wearing.

Comments: Never eat, drink, or smoke in work areas. Practice good personal hygiene after using this material, especially before eating, drinking, smoking, using the toilet, or applying cosmetics.

Section 9. Special Precautions and Comments

Storage Requirements: Store in closed containers in a cool, dry, well-ventilated area away from heat and ignition sources and strong oxidizing agents. Protect containers from physical damage. Avoid direct sunlight. Storage must meet requirements of OSHA Class IB liquid. Outside or detached storage preferred.

Engineering Controls: Avoid vapor inhalation and skin or eye contact. Consider a respiratory protection program that includes regular training, maintenance, inspection, and evaluation. Indoor use of this material requires explosion-proof exhaust ventilation to remove vapors. Only use gasoline as a fuel source due to its volatility and flammable/explosive nature. Practice good personal hygiene and housekeeping procedures. Wear clean work clothing daily.

Transportation Data (49 CFR 172.101, .102)

DOT Shipping Name: Gasoline (including casing-head and natural)

DOT Hazard Class: Flammable liquid

ID No.: UN1203

DOT Label: Flammable liquid

DOT Packaging Exceptions: 173.118

DOT Packaging Requirements: 173.119

IMO Shipping Name: Gasoline

IMO Hazard Class: 3.1

ID No.: UN1203

IMO Label: Flammable liquid

IMDG Packaging Group: II

MSDS Collection References: 26, 73, 89, 100, 101, 103, 124, 126, 127, 132, 133, 136, 138, 140, 143, 146, 153, 159

Prepared by: M Allison, BS; Industrial Hygiene Review: DJ Wilson, CIH; Medical Review: W Silverman, MD; Edited by: JR Stuart, MS

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Material Safety Data Sheet

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No. 359
ETHYLENE DICHLORIDE
(Formerly 1,2-Dichloroethane)
(Revision C)
Issued: November 1978
Revised: August 1987

SECTION 1. MATERIAL IDENTIFICATION

CHEMICAL NAME: ETHYLENE DICHLORIDE (Changed to reflect common industrial practice)
DESCRIPTION (Origin/Uses): Made from acetylene and HCl. Used as a degreaser, a scavenger in leaded gasoline, as an intermediate in the manufacture of vinyl chloride, in paint removers, in wetting and penetration agents, in ore flotation processes, as a fumigant, and as a solvent for fats, oils, waxes, and gums.
OTHER DESIGNATIONS: 1,2-Dichloroethane; *sym*-Dichloroethane; Dutch Liquid; Dutch Oil; EDC; Ethane Dichloride; Ethylene Chloride; 1,2-Ethylene Dichloride; Glycol Dichloride; C₂H₄Cl₂;
NIOSH RTECS KI0525000; CAS #0107-06-2
MANUFACTURERS/SUPPLIERS: Available from several suppliers, including:
Dow Chemical USA, 2020 Dow Center, Midland, MI 48640; Telephone: (517) 636-1000
COMMENTS: Ethylene dichloride is a flammable, toxic liquid.



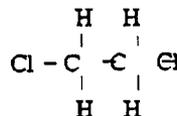
HMIS
H 1
F 3
R 0
PPE*
* See Sect. 8

R 1
I 4
S 2
K 4

SECTION 2. INGREDIENTS AND HAZARDS

%

HAZARD DATA



*The maximum allowable peak concentration (above the ceiling level value) of ethylene dichloride is 200 ppm for 5 minutes in any 3-hour period.
COMMENTS: Additional data concerning toxic doses and tumorigenic, reproductive, and mutagenic effects is listed (with references) in the NIOSH RTECS 1983-84 supplement, pages 865-66.

100

ACGIH Values 1987-88
TLV-TWA: 10 ppm, 40 mg/m³
OSHA PEL* 1986-87
8-Hr TWA: 50 ppm;
Ceiling: 100 ppm (15 Min.)
NIOSH REL 1986-87
10-Hr TWA: 1 ppm
Ceiling: 2 ppm (15 Min.)
Toxicity Data
Man. Inhalation, TC₀₁: 4000 ppm/1 Hr
Human, Oral, TD₀₁: 428 mg/kg
Man. Oral, TD₀₁: 892 mg/kg
Man. Oral, LD₅₀: 714 mg/kg
Rat, Oral, LD₅₀: 670 mg/kg

SECTION 3. PHYSICAL DATA

Boiling Point ... 182.3°F (83.5°C)
Vapor Pressure ... 87 Torr at 77°F (25°C)
Water Solubility ... Soluble in about 120 Parts Water
Vapor Density (Air = 1) ... 3.4
Evaporation Rate (n-BuAc = 1) ... Not Listed
Specific Gravity ... 1.2569 at 69°F (20°C)
Freezing Point ... -31.9°F (-35.5°C)
Molecular Weight ... 98.96 Grams/Mole
Appearance and odor: Colorless, clear liquid. Sweet, chloroformlike odor is typical of chlorinated hydrocarbons. The recognition threshold (100% of test panel) for ethylene dichloride is 40 ppm. Odor detection probably indicates an excessive exposure to vapor. High volatility and flammability, coupled with its toxicity and carcinogenic potential, make this material a major health hazard.
COMMENTS: Ethylene dichloride is miscible with alcohol, chloroform, and ether.

SECTION 4. FIRE AND EXPLOSION DATA

LOWER

UPPER

Flash Point and Method	Autoignition Temperature	Flammability Limits in Air	LOWER	UPPER
See Below	775°F (413°C)	% by Volume	6.2	15.9

EXTINGUISHING MEDIA: Use chemical, carbon dioxide, alcohol foam, water spray/fog, or dry sand to fight fires involving ethylene dichloride. Direct water sprays may be ineffective extinguishing agents, but they may be successfully used to cool fire-exposed containers. Use a smothering effect to extinguish fires involving this material. **UNUSUAL FIRE/EXPLOSION HAZARDS:** Ethylene dichloride is a dangerous fire and explosion hazard when exposed to sources of ignition such as heat, open flames, sparks, etc. Its vapors are heavier than air and can flow along surfaces to distant, low-lying sources of ignition and flash back. If it is safe to do so, remove this material from the fire area. Ethylene dichloride burns with a smoky flame.

SPECIAL FIRE-FIGHTING PROCEDURES: Wear a self-contained breathing apparatus with a full facepiece operated in a pressure-demand or another positive-pressure mode.

COMMENTS: Flash Point and Method: 56°F (13°C) CC; 65°F (18°C) OC.

OSHA Flammability Class (29 CFR 1910.106): IB. DOT Flammability Class (49 CFR 173.115): Flammable Liquid

SECTION 5. REACTIVITY DATA

Ethylene dichloride is stable. Hazardous polymerization cannot occur.

CHEMICAL INCOMPATIBILITIES include strong oxidizing agents. Explosions have occurred with mixtures of this material and liquid ammonia or dimethylaminopropylamine. Finely divided aluminum or magnesium metal may be hazardous in contact with ethylene dichloride.

CONDITIONS TO AVOID: Eliminate sources of ignition such as excessive heat, open flames, or electrical sparks, particularly in low-lying areas, because the explosive, heavier-than-air vapors will concentrate there.

PRODUCTS OF HAZARDOUS DECOMPOSITION can include vinyl chloride, chloride fumes, and phosgene. Phosgene is an extremely poisonous gas. Products of thermal-oxidative degradation (i.e., fire conditions) must be treated with appropriate caution.

No. 359 8/87 ETHYLENE DICHLORIDE

SECTION 6. HEALTH HAZARD INFORMATION

Ethylene dichloride is listed as an anticipated human carcinogen by the NTP and as a probable human carcinogen (Group 2B), by the IARC. It was found to be an animal-positive carcinogen by the IARC. NCI reported positive results (mouse, rat) from its carcinogenesis bioassay.

SUMMARY OF RISKS: Ethylene dichloride is considered to be one of the more toxic of the common chlorinated hydrocarbons. Deaths from accidental ingestion of this material have been reported. Inhalation of vapors reportedly caused three fatalities. Excessive inhalation of ethylene dichloride vapors can cause respiratory irritation, intoxication, narcotic and anesthetic effects, vomiting, dizziness, depression, and diarrhea. The hepatotoxic (injurious to liver) effects of this material are significant. The systemic effects from over-exposure can appear in the liver, kidneys, digestive tract, blood, lungs, adrenal glands, and the central nervous system. Tests on animals have revealed reproductive failure and fetal resorption. There may be increased risk to nursing infants of exposed mothers. **TARGET ORGANS:** Central nervous system, eyes, kidneys, liver, heart, adrenal glands, and skin. **PRIMARY ENTRY:** Inhalation, absorption through skin, oral, or eye contact.

ACUTE EFFECTS: Skin contact causes irritation, defatting, and, if repeated or prolonged, burning. Eye contact causes irritation and serious injury (clouding of the cornea) if it is not removed promptly. **CHRONIC EFFECTS:** Injuries to the liver (hepatotoxicity) and kidneys, weight loss, low blood pressure, jaundice, oliguria (reduced excretion of urine), or anemia. **MEDICAL CONDITIONS AGGRAVATED BY LONG-TERM EXPOSURE:** Persons taking anticoagulants could experience an increase in tendency to bleed. Persons taking insulin face an increased risk of lowered blood sugar. **FIRST AID:** Be prepared to restrain a hyperactive victim. **EYE CONTACT:** Flush eyes, including under the eyelids, gently but thoroughly with plenty of running water for at least 15 minutes. Get medical help.* **SKIN CONTACT:** Immediately flush the affected area with water. Wash thoroughly with soap and water. Remove and launder contaminated clothing before wearing it again; clean material from shoes and equipment. Get medical help.* **INHALATION:** Remove victim to fresh air; restore and/or support his breathing as needed. Get medical help.* **INGESTION:** Never give anything by mouth to someone who is unconscious or convulsing. Rinse victim's mouth with water. Oxygen and artificial respiration may be needed. Get medical help.*

* GET MEDICAL ASSISTANCE = IN PLANT, PARAMEDIC, COMMUNITY. Get prompt medical assistance for further treatment, observation, and support after first aid.

SECTION 7. SPILL, LEAK, AND DISPOSAL PROCEDURES

SPILL/LEAK: Before using ethylene dichloride, it is essential that proper emergency procedures be established and made known to all personnel involved in handling it. Notify safety personnel of ethylene dichloride spills or leaks and implement containment procedures. Remove and eliminate all possible sources of ignition such as heat, sparks, and open flames from the area. Cleanup personnel should use protection against inhalation of vapors and contact with liquid. Contain spills by using an absorbent material such as dry sand or vermiculite. Use nonsparking tools to mix waste material thoroughly with absorbent and place it in an appropriate container for disposal. Flush trace residues with large amounts of water. Do not flush waste to sewers or open waterways.

WASTE DISPOSAL: Consider reclamation, recycling, or destruction rather than disposal in a landfill. Waste may be burned in an approved incinerator equipped with an afterburner and a scrubber. Follow Federal, state, and local regulations.

Ethylene dichloride is designated as a hazardous substance by the EPA (40 CFR 116.4). Ethylene dichloride is reported in the 1983 EPA TSCA Inventory.

EPA Hazardous Waste Number (40 CFR 261.33): U077

EPA Reportable Quantity (40 CFR 117.3): 5000 lbs (2270 kgs)

Aquatic Toxicity Rating, TLM 96: 1000 - 100 ppm

SECTION 8. SPECIAL PROTECTION INFORMATION

GOGGLES: Always wear protective eyeglasses or chemical safety goggles. Ethylene dichloride is particularly harmful to the eyes, and direct contact results in corneal opacity (permanent clouding of the eye). **GLOVES:** Wear impervious rubber gloves to prevent skin contact. **RESPIRATOR:** Use a NIOSH-approved respirator per the NIOSH *Pocket Guide to Chemical Hazards* (Genium ref. 88) for the maximum-use concentrations and/or the exposure limits cited in section 2. Follow the respirator guidelines in 29 CFR 1910.134. Any detectable concentration of ethylene dichloride requires an SCBA, full facepiece, and pressure-demand/positive-pressure modes. Warning: Air-purifying respirators will not protect workers from oxygen-deficient atmospheres. **OTHER:** Wear rubber boots, aprons, and other protective clothing suitable for use conditions to prevent skin contact. Remove contaminated clothing and launder it before wearing it again. Discard contaminated shoes. **VENTILATION:** Provide maximum explosion-proof local fume exhaust ventilation systems to maintain the airborne concentrations of ethylene dichloride vapors below the exposure limits cited in section 2. Install properly designed hoods that maintain a minimum face velocity of 100 lfm (linear feet per minute). **SAFETY STATIONS:** Make eyewash stations, washing facilities, and safety showers available in areas of use and handling.

SPECIAL CONSIDERATIONS: Vapors are heavier than air and will collect in low-lying areas. Eliminate sources of ignition in these areas and again provide good ventilation there.

COMMENTS: Practice good personal hygiene. Keep materials off of your clothes and equipment. Avoid transferring this material from hands to mouth while eating, drinking, or smoking. Immediately remove ethylene dichloride-saturated clothing to avoid flammability and health hazards. Contact lenses pose a special hazard; soft lenses may absorb irritants, and all lenses concentrate them.

SECTION 9. SPECIAL PRECAUTIONS AND COMMENTS

STORAGE SEGREGATION: Store ethylene dichloride in tightly closed containers in a cool, dry, well-ventilated area away from sources of ignition. Protect containers from physical damage and from exposure to excessive heat. Avoid direct physical contact with strong acids, bases, oxidizing agents, and reducing agents. **SPECIAL HANDLING/STORAGE:** Use nonsparking tools. Outside or detached storage is preferred. Store and handle ethylene dichloride in accordance with the regulations concerning OSHA class IB flammable liquids.

ENGINEERING CONTROLS: During transfer operations involving ethylene dichloride, the liquid and its vapors must not be exposed to nearby sources of ignition from engineering systems that are not explosion proof. Preplan emergency response procedures.

TRANSPORTATION DATA (per 49 CFR 172.101-2):

DOT Hazard Class: Flammable Liquid

DOT Label: Flammable Liquid

IMO Class: 3.2

DOT Shipping Name: Ethylene Dichloride

DOT ID No. UN 1184

IMO Label: Flammable Liquid, Poison

References: 1-9, 12, 19, 21, 26, 43, 47, 73, 87-102. CK

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Approvals

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Indust. Hygiene/Safety

J.W.

Medical Review

Scott Goldsmith

APPENDIX B
ANALYTICAL QUALITY CONTROL REQUIREMENTS
MARCH 2005

TCLP VOA

<u>Compound</u>	<u>Reporting Limit, ug/L</u>
Vinyl Chloride	5.0
1,1-Dichloroethene	5.0
Chloroform	5.0
Carbon Tetrachloride	5.0
2-Butanone	5.0
Benzene	5.0
1,2-Dichloroethane	5.0
Trichloroethene	5.0
Tetrachloroethene	5.0
Chlorobenzene	5.0
1,4-Dichlorobenzene	5.0

TCLP SVOA

<u>Compound</u>	<u>Reporting Limit, ug/L</u>
Pyridine	10
1,4-Dichlorobenzene	10
2-Methylphenol	10
Hexachloroethane	10
Nitrobenzene	10
Hexachlorobutadiene	10
2,4,6-Trichlorophenol	10
2,4,5-Trichlorophenol	10
2,4-Dinitrotoluene	10
Hexachlorobenzene	10
Pentachlorophenol	20

TCLP PESTICIDES

<u>Compound</u>	<u>Reporting Limit,ug/L</u>
Gamma-BHC (Lindane)	0.05
Heptachlor	0.05
Heptachlor Epoxide	0.05
Endrin	0.05
Methoxychlor	0.05
Chlordane	1.00
Toxaphene	1.00

TCLP HERBICIDES

<u>Compound</u>	<u>Reporting Limit, ug/L</u>
2,4-D	1.0
2,4,5-TP(Silvex)	1.0

TCLP METALS

<u>Compound</u>	<u>Reporting Limit, ug/L</u>
Arsenic	2.0
Barium	0.5
Cadmium	0.6
Chromium	0.5
Lead	1.0
Mercury	0.03
Selenium	2.0
Silver	0.3