CAFB 98

DEPARTMENT OF THE AIR FORCE
HEADQUARTERS 27th FIGHTER WING (ACC)
CANNON AIR FORCE BASE NEW MEXICO

21 APR 1998

ENTERED

APR 1998

Colonel James A. Thomas III
Commander, 27th Support Group
110 E Sextant Avenue Suite 1098
Cannon AFB NM 88103-5323

Mr. Benito J. Garcia, Chief
Hazardous and Radioactive Materials Bureau
New Mexico Environment Department
2044 Galisteo Street
P O Box 26110
Santa Fe NM 87502

Dear Mr. Garcia

Attached for your review and approval is a two (2) volume Corrective Measures Completion Report for nineteen (19) oil/water separators Solid Waste Management Units (SWMUs) at Cannon AFB.

If you have any questions, please contact Mr. John Pike at (505) 784-1092 or Mr. Sanford Hutsell at (505) 784-6378, of my Environmental Flight.

Sincerely

James A. Thomas III

JAMES A. THOMAS III, Colonel, USAF

Attachment:
Corrective Measures Completion Report

cc:
NMED w/o Atch (C. Will)
NMED GW Bureau (J. Jacobs)
EPA Region VI (D. Neleigh)
HQ ACC/CEVC w/o Atch (R. Shannon)

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CORRECTIVE MEASURE COMPLETION REPORT

APPENDIX II AND III
SOLID WASTE MANAGEMENT UNITS

CANNON AIR FORCE BASE
CLOVIS, NEW MEXICO

VOLUME 1

Prepared for:

CANNON AIR FORCE BASE
27 CES/CEVR
Environmental Flight

September 1997

Prepared by:

U.S. ARMY CORPS OF ENGINEERS
ALBUQUERQUE DISTRICT

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EXECUTIVE SUMMARY

This Corrective Measure Completion Report (CMCR) has been prepared to attain closure of nine Appendix II and ten Appendix III Solid Waste Management Units (SWMUs) located at Cannon Air Force Base (CAFB) in Clovis, New Mexico. CAFB currently operates in compliance with the terms of a Resource Conservation and Recovery Act (RCRA) permit issued by the U.S. Environmental Protection Agency (EPA) and enforced by the State of New Mexico. This permit includes the investigation and implementation of corrective measures used to remediate environmental impacts associated with the release(s) of petroleum hydrocarbon-containing products and other chemicals from SWMUs.

This report summarizes and provides documentation for the corrective measures performed during the period July 24, 1996 through June 8, 1997, by the U.S. Army Corps of Engineers and its contractor. The corrective measures consisted of the removal, disposal and replacement of 4 oil/water separators (OWSs), the removal and disposal of 10 OWSs, the closure-in-place of 2 OWSs, the removal and disposal of 2 250-gallon underground storage tanks (USTs), the removal, disposal and replacement of 1 sandtrap, the removal and disposal of 5 sandtraps, and the closure-in-place of one oil-containment vault. All units were evacuated and cleaned with a high pressure wash. Approximately 1,179 gallons of semi-solid materials (sludge), 14,286 gallons of water and 429 gallons of waste oils were disposed of in the cleaning operations.

Soils adjacent to and within a 2-foot distance of the units were visually checked, and chemically analyzed in an approved laboratory for organic and heavy metal contamination. All soils excavated from around the units were removed and replaced with clean backfill. New Mexico Environment Department UST standards for soil clean-up were chosen as the Corrective Measure Completion (CMC) criteria for this project. These criteria are total petroleum hydrocarbon (TPH) levels less than 100 ppm, and BTEX levels less than 50 ppm, and heavy metals contamination less than the toxicity characteristic (TCLP), per RCRA standards.

Laboratory analysis results indicate that none of the excavated soils were at or above BTEX or TCLP criteria. Approximately 65 cubic yards of excavated soils with TPH levels above 100 ppm were delivered to Gandy Marley, Inc. in Tatum, New Mexico. Approximately 75 cubic yards of excavated soils which met the clean criteria were disposed of in the City of Clovis Public Landfill and another 134 cubic yards which also met the clean criteria were placed in the CAFB construction debris landfill. Concrete from the units was sampled and all samples met the CMC criteria for soils. All concrete was disposed of in the City of Clovis Public Landfill. All steel units and USTs were disposed of at Anderson Recycling Center, in Clovis, New Mexico.

A risk assessemnt of the sites, based on a comparison of the maximum concentration levels to risk-based screening levels developed by U.S. EPA, Region 6, supports the recommendation that additional investigation or corrective measures of these SWMUs are not warranted.

1.0 PURPOSE

This Corrective Measure Completion Report (CMCR) has been prepared to attain closure of nine Appendix II and ten Appendix III Solid Waste Management Units (SWMUs) located at Cannon Air Force Base (CAFB) in Clovis, New Mexico. CAFB currently operates in compliance with the terms of a Resource Conservation and Recovery Act (RCRA) permit issued by the U.S. Environmental Protection Agency (EPA) and enforced by the State of New Mexico. This permit includes the investigation and implementation of corrective measures used to remediate environmental impacts associated with the release(s) of petroleum hydrocarbon-containing products and other chemicals from SWMUs.

The purpose of this CMC report is to fully document corrective measure completion (CMC) criteria satisfied by the remedial activities completed by the U.S. Army Corps of Engineers, Albuquerque District, during the period July 24, 1996 through June 8, 1997. The corrective measure consisted of removing oil/water separators (OWSs), underground storage tanks (USTs), and associated piping integral to the nineteen SWMUs. The soils analysis for each of the SWMU excavations, except SWMU 70 where remedial bio-venting was underway prior to the removal and currently continues, demonstrate that the sites are clean according to the CMC criteria and that further investigation or corrective measures are not warranted.

A risk assessment was performed for each site. The maximum contaminant concentrations at each site were compared to the Environmental Protection Agency, Region 6, risk-based screening levels (RBSLs). With the exception of arsenic which is present at high levels in most of the alkaline soils of the southwest, the soils at the sites are at or below the RBSLs or regional background levels. The RBSLs are very conservative concentrations, therefore, contaminants which are at or below these levels pose no significant risk to human health or the environment and closure of these sites is warranted.

2.0 SYNOPSIS OF CORRECTIVE MEASURE

The construction contractor, Cheyenne Building Contractors, Inc. (Cheyenne) of Ruidoso, New Mexico was responsible for completion of all activities outlined in the Construction Work Plan (CWP), specifications and drawings. Cheyenne performed the work according to these documents and utilized experience, technical knowledge, and professional judgement in performance of the work. The following is a summary of the work activities performed by Cheyenne which are detailed in this report, on a site by site basis:

- Reviewed all project documents and met with USACE for a Pre-Construction Conference on July 24, 1996 at CAFB;
- Verified existing site conditions and the location of utilities prior to commencement of field activities at each SWMU site;
- Prepared submittals for USACE;
- Observed all referenced procedures, practices and specifications, including the CWP, the Sampling and Analysis Plan (SAP), the Quality Assurance/Quality Control Plan (QA/QC), and the Health and Safety Plan (HASP), throughout the project's duration;
- Evacuated, cleaned, and purged when necessary, all units of contents, and disposed of units and contents of units according to all applicable federal, state and local regulations;
- Excavated and transported soils with TPH levels at or greater than 100 ppm, and/or BTEX levels at or greater than 10 ppm to a facility permitted to treat such soils;
- Replaced certain oil/water separators (OWS) and/or drains, reconnected piping, or plugged piping and/or drains with grout, or removed piping, and completed site restoration to the satisfaction of CAFB.

3.0 CORRECTIVE MEASURE COMPLETION CRITERIA

Corrective Measure Completion criteria were based on sampling and analysis data, and field inspection documentation (i.e., passing compaction tests, construction completed in accordance with specifications and drawings, etc.).

Soils from the SWMU excavations were analyzed for the following:

- Volatile Organics (VOA) by EPA method 8260;
- Base/neutral/acid extractable organics (BNA) by EPA method 8270;
- TCLP Metals by EPA methods: 7470 for mercury; and 6010 for arsenic, barium, cadmium, chromium, lead, selenium, and silver; all by TCLP extraction method 1311;
- Diesel and Gasoline Range Organics by EPA method 8015 modified.

The following sample testing criteria, and earthwork testing requirements were attained:

- all excavated soils exhibiting a total petroleum hydrocarbon (TPH) level at or greater than 100 ppm and/or a BTEX level at or greater than 10 ppm,were transported off CAFB for treatment and disosal at the Gandy Marley facility in Tatum, New Mexico;

- all excavated soils exhibiting a total petroleum hydrocarbon (TPH) level less than 100 ppm and a BTEX level less than 10, were placed in the CAFB construction debris landfill or were used as backfill at the SWMU 112 excavation;

- all recovered surface water had concentrations below contaminant levels as outlined by NMED, prior to discharge;

- all soil testing results (i.e., compaction, moisture content, etc.) passed applicable construction specification requirements;

- all construction was completed according to applicable construction specifications and the CWP;

- all wastes were disposed of in accordance with the CWP, and all local, state and federal regulations;

- all work was completed with the approval of the U.S. Army Corps of Engineers, Albuquerque District.

4.0 COMPLETION CRITERIA DOCUMENTATION

This section shall provide the completion criteria documentation for each site, on a site by site basis. Each unit removal, and replacement, as appropriate, shall be described, including a discussion of the soil and unit contents sampling and a summary of sampling results and ambient air monitoring results. Included is a risk analysis for each site, using maximum contaminant concentrations in comparison with the risk based screening levels developed by EPA Region VI and recommendations for any further action.

It was the intention of this corrective measure to remove each unit in its entirety, however, specific site conditions at SWMUs 1, 8, 51, 70, 46 and 92, required portions of the units to remain in place. These site conditons shall be explained in the unit removal summary. In every case, soil sampling results indicated that the portions of the units remaining in the ground would not impact the surrounding soils or groundwater in a negative manner.

All work performed and described in this section followed the procedures in the CWP.

4.1 APPENDIX II SWMUs

4.1.1 SWMU 1

UNIT DESCRIPTION

This OWS unit was located on the southwest corner of building 119 adjacent to the aircraft parking ramp. The unit was an underground three-compartment concrete box measuring 11-feet-10-inches in length, 6-feet-4-inches in width and 9-feet-3-inches in depth. The walls of the unit were 6-inches thick and contained steel reinforcement. The unit functioned as an oil/water separator which received effluent from drains in hangar building 119 and discharged wastewater to the Stormwater Collection Point, SWMU 85. SWMU 1 had been in use since 1963.

A brass cap was placed at the northern corner of where the unit was located as shown in Figure 4.1-1. The point was surveyed by Lydick Engineers at New Mexico State Plane Coordinates: North 1233458.15 and East 803470.50.

UNIT REMOVAL

On November 5, 1996, the contents of the unit were removed by a vacuum pump truck and the inside of the unit was cleaned with a high pressure washer. Due to the location of a very old high pressure water line adjacent to the unit, the unit was not removed in its entirety. The asphalt around the unit was removed, exposing the soil around the top of the unit. The top of the unit was removed down to an inch below the soil level with a jackhammer (approximately 2 feet). Then four holes were drilled in the bottom of the unit, three in the main compartment and one in the oil storage compartment, so that soil samples could be gathered from beneath the unit. The inlet and discharge pipes were disconnected and capped. Soils beneath the asphalt and surrounding the unit were observed to contain no petroleum odors and no visual staining. The breathing zone was monitored at a peak level of 0.0 units with the PID, <2% LEL and oxygen at 21% with the CGI.

The excavation and remaining portion of the OWS was filled with clean backfill and compacted to grade. The backfill soils were obtained off-base and were analyzed in the laboratory for TCLP metals. Results of this analyses indicated only a low level of barium (1.3 mg/L). The cleaning and removal of the unit was routine and without incident.

UNIT CONTENTS

The unit contained approximately 1665 gallons of liquids and 44 gallons of sludge. The sludge and the liquids were sampled and sent for laboratory analysis. Laboratory analysis results for this material is reproduced in Appendix I. Results show that this material contained high levels of TPH, 4310 mg/Kg in the sludge. This material was disposed of as New Mexico Special Waste. It was not a RCRA hazardous waste nor a DOT hazardous material. This material was placed in clean 55-gallon drums and disposed of off-base by Envirosolve Southwest, Inc. in Albuquerque, New Mexico. The disposal documentation for this material is reproduced in Appendix II.

SOIL SAMPLING

Soil samples (Nos. 1 and 3 as shown in Fig. 4.1-1) were taken two feet below the inlet and discharge pipes, and samples (Nos. 2 and 4) were collected from the the east and west wall, respectively, two feet below the top of the unit. Soil sample No. 6 was taken from below the main compartment and soil sample No. 5 was taken from below the oil storage compartment, both at a depth of 11-feet bgs (two-feet below the unit). Sample Nos. 1 through 6 were taken for field screening analysis, using immunoassay method 4030. Field analysis results are reported in Appendix III.

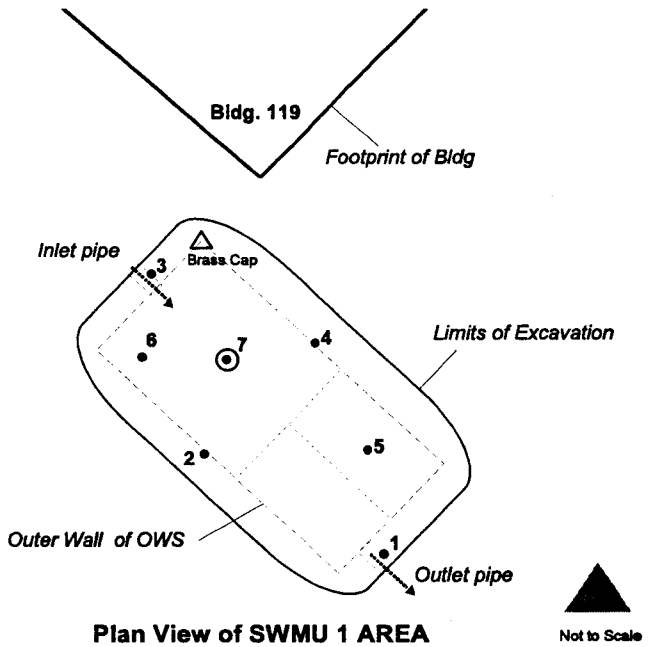

Figure 4.1-1. SWMU 1 Sample Locations

Field analysis of these samples indicated that the Total Petroleum Hydrocarbon (TPH) content for each sample was below 100 ppm and BTEX content was below 50 ppm.. A confirmatory sample (No. 7) was taken from the center of the excavation, at a depth of 11 feet bgs (two feet below the OWS), and sent for laboratory analysis.

Duplicates of samples 1 and 2 were submitted for laboratory analysis to correlate field findings with laboratory findings. Results for these samples both showed confirmation of the absence of BTEX or TPH found with the field sampling methods.

Laboratory results for Sample No. 7 indicated no significant organic or metals contamination. The only analyte reported was barium at 1.2 mg/L

There was no excavated soil to test and dispose. A summary of soil sample results is shown in Table 4.1-1. Copies of laboratory analysis of soils results are provided in Appendix IV. All samples for SWMU 1 were labeled for identification in the following manner: CA(SWMU #)/(Sample #)-YY-MMDD-(24-hr time). For example, the SWMU 1 sample No. 7 in this text is identified by the laboratory as CA01/7-97-0314-1136.

Table 4.1-1

SUMMARY OF SWMU 1 SOIL SAMPLE RESULTS										
No.	Depth (ft)	Location	PID (units) ppm	4030 TPH ppm	4030 BTEX ppm	SWA846 8020A BTEX mg/Kg	SWA846 M8015 DRO mg/Kg	SWA846 8260 mg/Kg	SWA846 8270B SOX mg/Kg	TCLP Metals mg/L
1	5	OWS	0.02	<100	10	ND	ND	NT	NT	NT
2	11	OWS	ND	<20	<10	ND	ND	NT	NT	NT
3	4	OWS	ND	<20	<10	NT	NT	NT	NT	NT
4	11	OWS	ND	<20	<10	NT	NT	NT	NT	NT
5	11	OWS	ND	<20	<10	NT	NT	NT	NT	NT
6	11	OWS	ND	<20	<10	ND	NT	NT	NT	NT
7	11	OWS	NT	NT	NT	NT	ND	ND	ND	Ba

ND indicates non-detect
NT indicates not tested

UNIT DISPOSAL

The concrete from this unit was stockpiled on the abandoned runway site until samples were taken from the inside wall of the cap. This sample was mixed with nine other SWMU unit concrete samples to form a composite sample for laboratory analysis. The concrete sample was analyzed using TCLP methods for metals, pesticides, volatiles and semivolatiles. Only low levels of barium (1.2 mg/L) and benzene (0.002 mg/L) were found in this sample. The concrete from this unit was disposed of in the City of Clovis Public Landfill in Clovis, New Mexico on November 25, 1996.

PROJECT COSTS

The total cost for SWMU 1 removal and restoration were $25,205.90 and are summarized in Table 4.1-2.

Table 4.1-2

SWMU 1 CONTRACT QUANTITIES AND COSTS				
Contract Bid Item No.	DESCRIPTION	$/UNIT	QUANTITY	COST ($)
1	Mobilization/Demobilization	16.257/MI	0	$ 0
2	Travel Cost pertaining to construction contract	1957.8/EA	0	0
15	Sawcut concrete	12.93/LF	0	0
16	Concrete removal and disposal	237.38/T	4.09	$ 970.88
17	Concrete Replacement	154.82/CY	0	0
18	Sawcut Asphalt	1.5/LF	61	91.50
19	Asphalt removal and disposal	28.88/T	4.55	131.40
20	Asphalt replacement	34.96/SY	25	874.00
25	Waste Oils, Tank Contents, Pump, Transport, Dispose, Recycle and/or Treatment, Complete	5.09/GAL	0	0
26	Hazardous & Dangerous Substances, Tank Contents, Pump, Transport, Dispose and/or Treatment, Complete	56.76/GAL	0	0
27	Contaminated Water, Tank Contents, Pump, Transport, Recycle and/or Dispose, Complete	2.61/GAL	1,665.81 GAL	4,347.76
28	Non-Contaminated Water, Tank Contents, Pump, Transport, Recyclye and/or Dispose, Complete	0.86/GAL	0	0
29	Hazardous Soil, Including Excavation, Trans-portaion, Treatment, Disposal and Required Backfill Material, Complete	289.15/T	0	0
30	Highly Contaminated Soil, Including Excavation, Transportaion, Treatment, Disposal and Required Backfill Material, Complete	90.75/T	0	0
33	Soil Sampling & Analysis, Method 8015 Modified (TPH), Complete	189.3/EA	3	567.90
38	Soil Sampling & Analysis, Method 6010 (Total Metals), Complete	539.20/EA	1	539.20
40	Remove OWSs,USTs and associated piping, Install new OWSs, all per drawings 0 and C1 through C12	LS	1	8,678.00

SWMU 1 CONTRACT QUANTITIES AND COSTS				
Contract Bid Item No.	**DESCRIPTION**	**$/UNIT**	**QUANTITY**	**COST ($)**
41	Removal and Disposal of Sludge from OWS	113.76/ GAL	44 GAL	5,005.44
42	Soil Sampling & Analysis, Total BTEX Rapid Assay or Equivalent (Immunoassay-BTEX), Complete	158.01/EA	6	948.06
43	Soil Sampling & Analysis, Draft Method 4030 (Immunoassay-TPH), Complete	158.01/EA	6	$ 948.06
44	Soil Sampling & Analysis, Method 8260 (VOAs), Complete	375.08/EA	1	375.08
45	Soil Sampling & Analysis, Method 8270 (Semi-VOAs), Complete	619.36/EA	1	619.36
46	Soil Sampling & Analysis, Method 8020 (BTEX), Complete	155.28/EA	2	310.56
47	Case 780D Backhoe, Operator & Laborer, Complete	140.5/HR	0	0
48	Soil Sampling & Analysis, Method 1311 (TCLP), Total Analyte List Metals and SVOCs, Complete	798.69/EA	1	798.69
49	Remove & Dispose of Non-hazardous Sludge from OWS (Partial drums that cannont be filled from another unit shall be paid as full drum)	203.53/ 55-GAL DRUM	0	0
50	Remove & Dispose of Hazardous Sludge from OWS (Partial drums that cannont be filled from another unit shall be paid as full drum)	474.90/ 55-GAL DRUM	0	0
Misc	New Fencing installed at SWMU 94	LS	0	0
TOTAL				**$25,205.90**

SWMU 1 RISK EVALUATION

Site Conceptual Exposure Model

There are three potentially unique mechanisms, or exposure pathways, by which an individual or population would come in contact with a chemical(s) of concern at SWMU 1: direct contact with soil, inhalation of airborne emissions from soil, and domestic use of groundwater on the Base or at the Base boundary. The persons, structures, utilities, surface waters, and water supply wells that are or may be adversely affected by a release at SWMU 1 are the potential receptors. The potential receptors include Base workers (e.g., military and Base personnel, Base contractors, construction workers, Base residents and Base visitors), and residential receptors at the Base boundary downgradient of the SWMU who may use the groundwater.

Comparison of Concentrations in Soil to Risk Based Screening Levels (RBSLs)

The ***EPA Region 6 Human Health Media-Specific Screening Levels,*** dated October 30, 1996, a look-up table, was used to determine whether site conditions satisfy the criteria for recommendation of regulatory closure or warrant a more site-specific evaluation. Maximum detected soil concentrations of volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs) and metals were compared to EPA Region VI risk-based screening levels (RBSLs) for residential soil to evaluate whether a significant release (i.e., capable of posing a risk to human health) has occurred at SWMU 1. EPA Region VI RBSLs were used for the comparison because they are a comprehensive and up-to-date list of RBSLs derived using accepted risk assessment methodology. As noted, Table 4.1.1 shows a summary of VOCs,SVOCs and metals detected in soil samples collected at SWMU 1. Table 4.1-3 delineates the maximum concentrations of metals detected at SWMU 1.

No organic compounds were detected.

Table 4.1-3

SWMU 1 Maximum Soil Sample Concentrations

Sample No.	Total Metals mg/Kg		TCLP Metals mg/L	Background Conc. Region VI / Cannon AFB[1] mg/Kg		Region VI Residential RBSL mg/Kg
7	Arsenic	<3.0	<0.40	1.1 - 16.7	3.6	0.32 C
	Barium	1390	1.2	430	805	530.0 N
	Chromium	9.9	<0.02	38	13.3	31 C
	Nickel	9.1	NT	16	11.4	150.0 N
	Lead	7.6	<0.05	10-18	7.1	40.0 N

N - noncarcinogenic
C - carcinogenic
NT - not tested

[1]CAFB Background Investigation, 1997

Arsenic was not detected in any of the samples above the total arsenic detectection limit of 3.0 mg/kg, however the detection limit is above the Region VI RBSL of 0.32 mg/kg for carcinogenic arsenic and the RBSL of 2.2 mg/Kg for non-carcinogenic arsenic. The concentration of ≤3.0 mg/kg lies well within the Region VI background range. Since naturally occurring concentrations of arsenic in soils in this region are known to be relatively high and greatly exceed the carcinogenic RBSL of 0.32 mg/kg, it is impractical to impose this RBSL at this site. As an alternative, it is proposed to use ***The Background Investigation, Cannon Air Force Base, New Mexico,*** dated September 1997, value for arsenic in subsurface soils of 3.6 mg/kg.

Among the metal analytes tested, no other exceeds the respective Region VI RBSL. In addition, this site is paved with asphalt and located in an industrial portion of the base. It can be reasonably asserted, therefore, that no chemicals, other than arsenic, were detected at concentrations which are likely to pose a potentially significant human health risk based on any current or future land use scenario for SWMU 1.

Evaluation of the Groundwater Pathway

The depth to groundwater is approximately 240 feet at Cannon AFB (Woodward Clyde, 1992). Additionally site lithology in the vadose zone, including clays and Caliche (calcium carbonate) layers, as well as the asphalt paving over the site, would tend to impede infiltration and dissolved-phase and pure-phase contaminant transport. Organics are much more likely to be transported by dissolved-phase and pure-phase mechanisms than are inorganics. Due to these considerations, unsaturated zone transport was assumed not to be a significant transport mechanism, therefore, the potential risks and hazards associated with groundwater use and ingestion were not considered as a complete in-direct exposure pathway.

Risk Conclusion

The results of the soil investigation following the removal of the oil/water separator at SWMU 1 indicate that no chemical release that poses an unacceptable human health risk for any potential exposure pathway has occurred at this SWMU and, therefore, no further evaluation of this SWMU is warranted.

4.1.2 SWMU 7

UNIT DESCRIPTION

SWMU 7 was an oil/water separator (OWS) which was located adjacent to the northwest side of building 129, approximately 33 feet east of the northwest corner of the building and just south of Building 116, a high-voltage electrical facility for airfield lighting. The OWS was a 3-compartment, underground, cast-in-place concrete box measuring 5-feet in length, 7-feet in width and 5-feet in depth. The walls of the unit were 6-inches thick and contained steel reinforcment. The unit functioned as an oil/water separator which received effluent from drains in hangar building 129 and drained to the sanitary sewer line (SWMU 98). The unit was active from 1943 until November 1, 1996, receiving washwater generated from aircraft washing and aircraft maintenance operations. The unit was surrounded on all sides by asphalt.

A brass cap was placed at the easternmost corner of where the unit was located as shown in Figure 4.1-2. The point was surveyed by Lydeck Engineering at New Mexico State Plane Coordinates: North 1234490.46 and East 804308.30.

UNIT REMOVAL

On November 4, 1996, the asphalt around the OWS was sawcut to allow access to the unit. On November 5, 1996, the contents of the unit were removed by a vacuum pump truck. The inside of the unit was cleaned with a high pressure washer. The interior walls were checked with the PID and no residual contamination was indicated by this instrument. On November 6, 1996 the excavation of two feet of soil surrounding the unit was begun. Due to the proximity of the high voltage facility, all soil removal was done manually with shovels. The soil surrounding the unit was not stained and no fuel odors were observed. Excavated soils were stockpiled on a designated part of the abandoned runway. The inlet and outlet pipes were disconnected and temporarily capped. The OWS was removed from the excavation on November 7, 1996 and hauled to the storage area on the abandoned runway. The exterior surface walls of the unit showed no signs of dark staining which would indicate that the unit had leaked. The breathing zone was monitored at a peak level of 0.0 units with the PID, <2% LEL and oxygen at 21% with the CGI. The removal was routine and without incident.

The inlet and outlet pipes were reconnected using 6-inch Schedule 40 PVC pipe. The excavation was filled with clean backfill and compacted to grade. The backfill soils were obtained off-base and were analyzed in the laboratory for TCLP metals. Results of this analyses indicated only a low level of barium (1.3 mg/L).

UNIT CONTENTS

Approximatly 629 gallons of liquid/sludge were removed from the unit. The sludge and the liquids were sampled separately and sent for laboratory analysis. Laboratory analysis results for this material is reproduced in Appendix I. Results show that this material contained constituents commonly found in JP-fuels and solvents. This material was not a RCRA hazardous waste nor a DOT hazardous material. The sludge was placed in clean 55-gallon drums and disposed of off-base by Envirosolve Southwest, Inc. in Albuquerque, New Mexico. The disposal documentation for this

material is reproduced in Appendix II.

SOIL SAMPLING

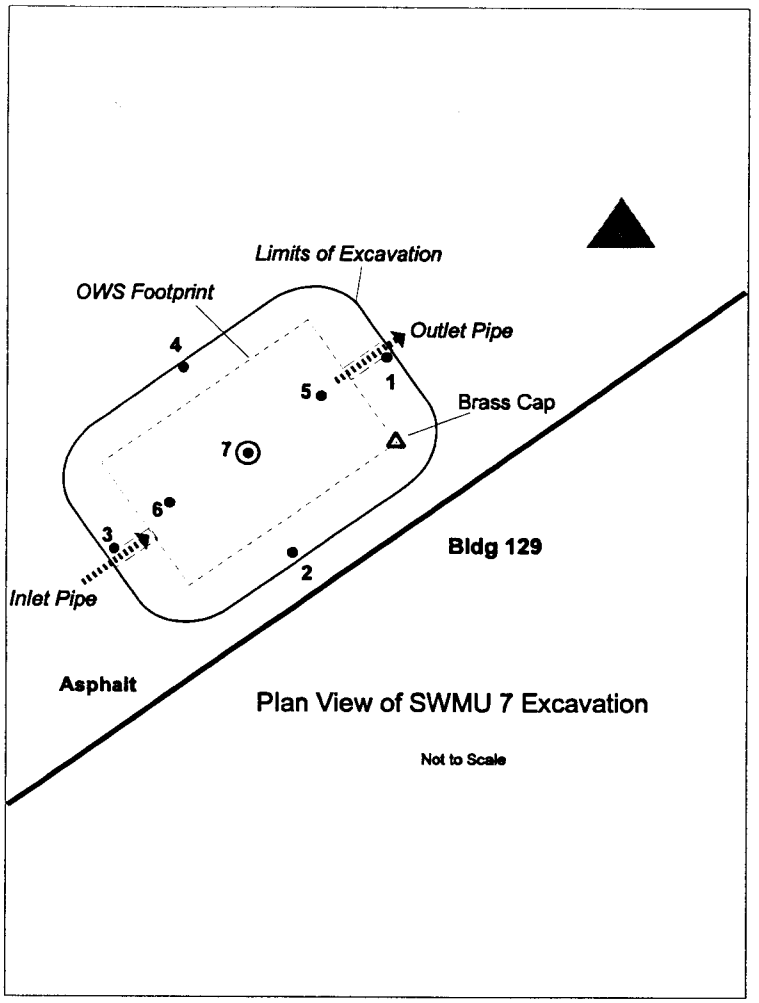

Figure. 4.1-2 SWMU 7 Sample Locations

Wooden shoring was used to protect field workers gathering the bottom samples. Soil samples (Nos. 1 through 4 as shown in Fig. 4.1-2) were taken from the bottom of each of the four vertical sidewalls of the excavation at a depth of 8-feet below ground surface (bgs), and two samples (sample Nos. 5 and 6) were collected from the bottom of the excavation at a depth of 8 feet bgs, for on-site field analysis. Field analysis results is found in Appendix III.

After field analysis of these samples using immunoassay method 4030 indicated that the Total Petroleum Hydrocarbon (TPH) content for each sample was below 20 ppm and BTEX content was 10 ppm or less, a confirmatory sample (No. 7) was taken from the center of the bottom of the excavation at a depth of 8 feet bgs, and sent for laboratory analysis. A duplicate of sample Nos. 4 and 6 were submitted for laboratory analysis to correlate field results with laboratory results. Stockpiled soils were field screened and samples were also submitted for laboratory analysis.

Laboratory results for Sample No. 7 indicate no significant levels of organics or TCLP metals. Semivolatile contaminant di-n-butylphthalate at 10.0 mg/Kg, and the metals, barium and chromium at 0.7 mg/L and 0.04 mg/L, respectively, were found in this sample. The metals levels are below the maximum concentration limit for toxicity characteristic.

Sample No. 8 was taken from the excavated soils and submitted for TCLP RCRA 8 metals analysis. Sample No. 8 results indicated a cadmium level of 1.78 mg/L, and a lead level of 24.5 mg/L, both of which levels exceed the maximun concentration limits of toxicity characteristic. On-site personnel felt that Sample No. 8 was not representative of the excavated material, especially since

results from the bottom of the excavation indicated no heavy metals contamination. Sample No. 10 (the No. 9, inadvertently, was not used) was then taken from the stockpiled soils from this unit. Results for sample No. 10 also indicated that no metals contamination was present. Excavated soils were subsequently removed from the staging area and placed in the Base landfill.

A summary of soil sample results is shown in Table 4.1-4. Copies of laboratory analysis of soils results are provided in Appendix IV. All samples for SWMU 7 were labeled for identification in the following manner: CA(SWMU #)/(Sample #)-YY-MMDD-(24-hr time). For example, the SWMU 7 sample No. 7 in this text is identified by the laboratory as CA07/7-97-0314-1136.

Table 4.1-4

SUMMARY OF SWMU 7 SOIL SAMPLE RESULTS

No	Depth (ft)	Location	PID (units)	4030 TPH ppm	4030 BTEX ppm	SWA846 8020A BTEX mg/Kg	SWA846 M8015 DRO mg/Kg	SWA846 8260 mg/Kg	SWA846 8270B SOX mg/Kg	TCLP Metals mg/L
1	8	OWS	ND	<20	10	NT	NT	NT	NT	NT
2	8	OWS	ND	<20	<10	NT	NT	NT	NT	NT
3	8	OWS	ND	<20	<10	NT	NT	NT	NT	NT
4	8	OWS	ND	<20	<50	ND	ND	NT	NT	NT
5	8	OWS	ND	<20	<50	NT	NT	NT	NT	NT
6	8	OWS	ND	<20	<50	ND	ND	NT	NT	NT
7	8	OWS	NT	NT	NT	NT	ND	ND	ND[1]	Ba
8	n/a	excavated material	NT	NT	NT	ND	ND	NT	NT	Cd[2], Pb[3]
9	NOT	USED	NT	NT	NT	NT	NT	NT	NT	NT
10	n/a	excavated material	NT	NT	NT	NT	NT	NT	NT	Ba

[1] Di-n-butylphthalate at 10 mg/Kg.
[2] Cadmium at 1.78 mg/L
[3] Lead at 24.5 mg/L.

ND indicates non-detect, or below detection limit
NT indicates not tested

UNIT DISPOSAL

The concrete from this unit was stockpiled on the abandoned runway site until samples were taken from the bottom inside wall of the unit. This sample was mixed with nine other SWMU unit concrete samples to form a composite sample for laboratory analysis. The concrete sample was analyzed using TCLP methods for metals, pesticides, volatiles and semivolatiles. Only low levels of barium (1.2 mg/L) and benzene (0.002 mg/L) were found in this sample. The concrete from this

unit was disposed of in the City of Clovis Public Landfill in Clovis, New Mexico on November 25, 1996.

PROJECT COSTS

The total cost for SWMU 7 removal and restoration were $38,890.64 and are summarized in Table 4.1-5.

Table 4.1-5

SWMU 7 CONTRACT QUANTITIES AND COSTS				
Contract Bid Item No.	**DESCRIPTION**	**$/UNIT**	**QUANTITY**	**COST ($)**
1	Mobilization/Demobilization	16.257/MI	0	0
2	Travel Cost pertaining to construction contract	1957.8/EA	0	0
15	Sawcut concrete	12.93/LF	0	0
16	Concrete removal and disposal	237.38/T	1.15	272.98
17	Concrete Replacement	154.82/CY	0	0
18	Sawcut Asphalt	1.5/LF	63 LF	94.50
19	Asphalt removal and disposal	28.88/T	4.55 T	131.40
20	Asphalt replacement	34.96/SY	12.66 SY	442.60
25	Waste Oils, Tank Contents, Pump, Transport, Dispose, Recycle and/or Treatment, Complete	5.09/GAL	0	0
26	Hazardous & Dangerous Substances, Tank Contents, Pump, Transport, Dispose and/or Treatment, Complete	56.76/GAL	0	0
27	Contaminated Water, Tank Contents, Pump, Transport, Recycle and/or Dispose, Complete	2.61/GAL	585 GAL	1,526.85
28	Non-Contaminated Water, Tank Contents, Pump, Transport, Recyclye and/or Dispose, Complete	0.86/GAL	0	0
29	Hazardous Soil, Including Excavation, Trans-portaion, Treatment, Disposal and Required Backfill Material, Complete	289.15/T	0	0
30	Highly Contaminated Soil, Including Excavation, Transportaion, Treatment, Disposal and Required Backfill Material, Complete	90.75/T	0	0

SWMU 7 CONTRACT QUANTITIES AND COSTS				
Contract Bid Item No.	**DESCRIPTION**	**$/UNIT**	**QUANTITY**	**COST ($)**
33	Soil Sampling & Analysis, Method 8015 Modified (TPH), Complete	189.3/EA	4	757.20
38	Soil Sampling & Analysis, Method 6010 (Total Metals), Complete	539.20/EA	1	539.20
40	Remove OWSs,USTs and associated piping, Install new OWSs, all per drawings 0 and C1 through C12	LS	1	24,368.00
41	Removal and Disposal of Sludge from OWS	113.76/ GAL	44 GAL	5,005.44
42	Soil Sampling & Analysis, Total BTEX Rapid Assay or Equivalent (Immunoassay-BTEX), Complete	158.01/EA	6	948.06
43	Soil Sampling & Analysis, Draft Method 4030 (Immunoassay-TPH), Complete	158.01/EA	6	948.06
44	Soil Sampling & Analysis, Method 8260 (VOAs), Complete	375.08/EA	1	375.08
45	Soil Sampling & Analysis, Method 8270 (Semi-VOAs), Complete	619.36/EA	1	619.36
46	Soil Sampling & Analysis, Method 8020 (BTEX), Complete	155.28/EA	3	465.84
47	Case 780D Backhoe, Operator & Laborer, Complete	140.5/HR	0	0
48	Soil Sampling & Analysis, Method 1311 (TCLP), Total Analyte List Metals and SVOCs, Complete	798.69/EA	3	2,396.07
49	Remove & Dispose of Non-hazardous Sludge from OWS (Partial drums that cannont be filled from another unit shall be paid as full drum)	203.53/ 55-GAL DRUM	0	0
50	Remove & Dispose of Hazardous Sludge from OWS (Partial drums that cannont be filled from another unit shall be paid as full drum)	474.90/ 55-GAL DRUM	0	0
Misc	New Fencing installed at SWMU 94	LS	0	0
TOTAL				**$38,890.64**

SWMU 7 RISK EVALUATION

Site Conceptual Exposure Model

There are three potentially unique mechanisms, or exposure pathways, by which an individual or population would come in contact with a chemical(s) of concern at SWMU 7: direct contact with soil, inhalation of airborne emissions from soil, and domestic use of groundwater on the Base or at the Base boundary. The persons, structures, utilities, surface waters, and water supply wells that are or may be adversely affected by a release at SWMU 7 are the potential receptors. The potential receptors include Base workers (e.g., military and Base personnel, Base contractors, construction workers, Base residents and Base visitors), and residential receptors at the Base boundary downgradient of the SWMU who may use the groundwater.

Comparison of Concentrations in Soil to Risk Based Screening Levels (RBSLs)

The ***EPA Region 6 Human Health Media-Specific Screening Levels,*** dated October 30, 1996, a look-up table, was used to determine whether site conditions satisfy the criteria for recommendation of regulatory closure or warrant a more site-specific evaluation. Maximum detected soil concentrations of volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs) and metals were compared to EPA Region VI risk-based screening levels (RBSLs) for residential soil to evaluate whether a significant release (i.e., capable of posing a risk to human health) has occurred at SWMU 7. EPA Region VI RBSLs were used for the comparison because they are a comprehensive and up-to-date list of RBSLs derived using accepted risk assessment methodology. As noted, Table 4.1-4 shows a summary of VOCs,SVOCs and metals detected in soil samples collected at SWMU 7. Table 4.1-6 delineates the maximum concentrations of metals detected at SWMU 7.

Di-n-butylphthalate was detected in Sample No. 7, collected at a depth of 8 feet, at a concentration of 10 mg/Kg. Dibutylphthalate has a Region VI listing of 6500 mg/kg for residential soils and is considered non-carcinogenic. Di-n-butylphthalate was also found in the laboratory method blank for this sample. After further data review, it is believed that the di-n-butylphthalate in this sample is a laboratory contaminant associated with plasticizers commonly found in laboratory equipment. Nine of the 19 SWMUs analyzed during this corrective measure showed di-n-butylphthalate contamination in the method 8270 blank analysis.

Table 4.1-6

SWMU 7 Maximum Soil Sample Concentrations of Metals						
Sample No.	Total Metals mg/Kg		TCLP Metals mg/L	Background Conc. Region VI / Cannon AFB[1] mg/Kg		Region VI Residential RBSL mg/Kg
7	Arsenic	<3.0	<0.40	1.1 - 16.7	3.6	0.32 C
7	Barium	215	0.7	430	805	5300 N
	Chromium	6.8	0.04	38	13.3	31 C
	Nickel	8.4	NT	16	11.4	1500 N
	Lead	6.7	<0.05	10-18	7.1	400 N

N - noncarcinogenic
C - carcinogenic
NT - not tested

[1]CAFB Background Investigation, 1997

Arsenic was not detected in any of the samples above the total arsenic detectection limit of 3.0 mg/kg, however the detection limit is above the Region VI RBSL of 0.32 mg/kg for carcinogenic arsenic and the RBSL of 2.2 mg/Kg for non-carcinogenic arsenic. The concentration of <3.0 mg/kg lies well within the Region VI background range. Since naturally occurring concentrations of arsenic in soils in this region are known to be relatively high and greatly exceed the carcinogenic RBSL of 0.32 mg/kg, it is impractical to impose this RBSL at this site. As an alternative, it is proposed to use ***The Background Investigation, Cannon Air Force Base, New Mexico,*** dated September 1997, value of arsenic in subsurface soils of 3.6 mg/kg.

Among the metal analytes tested, none other exceeds the respective Region VI RBSL. In addition, the site is paved and located in an industrial portion of the base. It can be reasonably asserted, therefore, that no metals, other than arsenic, were detected at concentrations which are likely to pose a potentially significant human health risk based on any future land use scenario for SWMU 7.

Evaluation of the Groundwater Pathway

The depth to groundwater is approximately 240 feet at Cannon AFB (Woodward Clyde, 1992). Additionally site lithology in the vadose zone, including clays and caliche (calcium carbonate) layers, as well as the asphalt paving over the site, would tend to impede infiltration and dissolved-phase and pure-phase contaminant transport. Organics are much more likely to be transported by dissolved-phase and pure-phase mechanisms than are inorganics. Due to these considerations, unsaturated zone transport was assumed not to be a significant transport mechanism, therefore, the potential risks and hazards associated with groundwater use and ingestion were not considered as a complete in-direct exposure pathway.

Risk Conclusion

The results of the soil investigation following the removal of the oil/water separator at SWMU 7 indicate that no chemical release that poses an unacceptable human health risk for any potential exposure pathway has occurred at this SWMU and, therefore, no further evaluation of this SWMU is warranted.

4.1.3 SWMU 8

UNIT DESCRIPTION

This unit was located on the south end of the aircraft washrack adjacent to the east side of building 165. The unit was a three-compartment underground concrete box measuring 21-feet in length, 12-feet in width and 10-feet in depth. The OWS was surrounded on all sides by a grassy area, and was adjacent to a concrete-covered washrack area, SWMU 9. The walls of the unit were 6-inches thick and contained steel reinforcment. The unit functioned as an oil/water separator which received effluent from the adjacent aircraft washrack. The unit was active from 1963 to the present.

A brass cap was placed at the northwest corner of where the unit was located as shown in Figure 4.1-3. The point was surveyed by Lydick Engineers at New Mexico State Plane Coordinates: North 1235092.31 and East 805004.16.

UNIT REMOVAL

On December 31, 1996, the contents of the unit were removed by a vacuum pump truck and the inside of the unit was cleaned with a high pressure washer. The adjacent two feet of soil that surrounded the unit on three sides were removed and stockpiled on a designated part of the abandoned runway. When the sidewall adjacent to the concrete washrack was removed the soil beneath the edge of the washrack subsided into the excavation, thus undermining the edge of the washrack slab. At that point, a decision was made to leave the bottom slab of the unit in place to preclude further undermining of the adjacent washrack slab. Holes were punched in the bottom slab to allow sampling of the soils beneath the slab. The exterior walls of the unit had no dark staining which would have indicated that the unit had leaked. The soils from the excavation were not discolored nor were any fuel or other ordors observed. The inlet and outlet pipes were disconnected and capped. Wooden shoring was used in the excavation to protect field workers. The remaining removal was routine and without incident. The breathing zone was monitored at a peak level of 0.3 units with the PID, <2% LEL and oxygen at 21% with the CGI.

The excavation was filled with clean backfill and compacted to grade. The backfill soils were obtained off-base and were analyzed in the laboratory for TCLP metals. Results of this analyses indicated only a low level of barium (1.3 mg/L).

UNIT CONTENTS

The unit contained approximately 6009 gallons of liquids and 495 gallons of sludge. The sludge and the liquids were sampled and sent for laboratory analysis. Laboratory analysis results for this material is reproduced in Appendix I. Results show that this material was not a New Mexico Special Waste Material, nor a RCRA hazardous waste, nor a DOT hazardous material. The liquid was disposed of in the base sanitary sewer system. The sludge material was placed in clean 55-gallon drums and disposed of off-base by Envirosolve Southwest, Inc. The disposal documentation for this material is reproduced in Appendix II.

SOIL SAMPLING

Soil samples (Nos. 2 and 3 as shown in Fig. 4.1-3) were taken from the bottom of the two 21-foot-long vertical sidewalls of the excavation at a depth of 12-feet below ground surface (bgs), for on-site field analysis. Three samples (Nos. 1, 4 and 5) were collected from beneath the bottom slab at a depth of 12 feet bgs, for on-site field analysis. Sample Nos. 6 and 7 were collected from below the outlet and inlet pipes, respectively, for on-site field analysis. After field analysis of these samples using immunoassay method 4030 indicated that the Total Petroleum Hydrocarbon (TPH) content for each sample was below 20 ppm and BTEX content was 10 ppm or below, one composite sample and its QA and QC duplicates (Nos. 8 and 9) were taken from the bottom of the excavation at a depth of 12 feet bgs, and sent for laboratory analysis. Duplicates of samples Nos. 1 and 6 were submitted for laboratory analysis to correlate field findings with laboratory results. Soils removed from the excavation were observed to contain no petroleum odors and no visual staining. Stockpiled soils were submitted for laboratory analysis. Field analysis results are found in Appendix III.

The results for Sample No. 7-QA indicated no organics or metals contamination at or above statutory limits. Barium at a level of 0.84 mg/L and Cadmium at a level of 0.0046 mg/L were found in the QA sample.

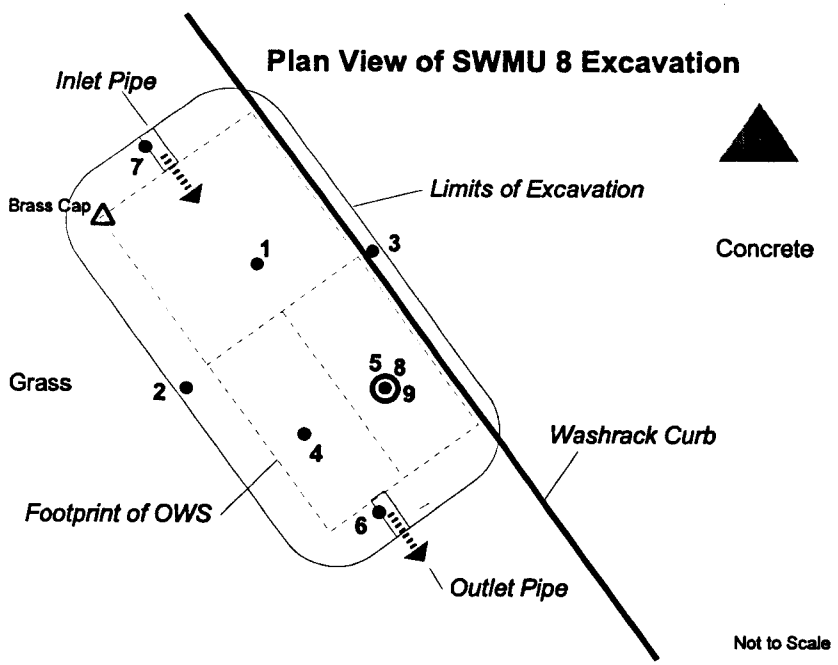

Figure 4.1-3. SWMU 8 Sample Locations

Fieldscreening samples were tested on-site using headspace analysis with a PID and immunoassay method 4030s for TPH and BTEX. Laboratory analysis results for sample Nos. 8 and 9, taken from the bottom of the excavation, indicated no significant levels of organics or heavy metals.

Laboratory analysis results for duplicates of samples nos. 1 and 6 did not detect BTEX or TPH in either sample.

Excavated soils from SWMU 8 were combined with excavated soils from SWMU 9. Results from total metals testing of these combined soils indicated low levels of cadmium, chromium, nickel and lead. TCLP results indicate only a trace amount of Barium (1.2mg/L), an element which is native

in these soils and appears at the same level in the off-base backfill soils used to fill the excavations in this corrective measure. Excavated soils were subsequently removed from the staging area and placed in the Base landfill.

A summary of soil sample results is shown in Table 4.1-7. Copies of laboratory analysis results for soils are provided in Appendix IV. All samples for SWMU 8 were labeled for identification in the following manner: CA(SWMU #)/(Sample #)-YY-MMDD-(24-hr time). For example, the SWMU 8 sample No. 7 in this text is identified by the laboratory as CA08/7-97-0314-1136.

Table 4.1-7

SUMMARY OF SWMU 8 SOIL SAMPLE RESULTS

No.	Depth (ft)	Location	PID units	4030 TPH ppm	4030 BTEX ppm	SWA846 8020A BTEX mg/Kg	SWA846 M8015 DRO mg/Kg	SWA846 8260 mg/Kg	SWA846 8270B SOX mg/Kg	TCLP Metals mg/L
1	12	OWS	ND	<20	<10	ND	ND	NT	NT	NT
2	12	OWS	ND	ND	<10	NT	NT	NT	NT	NT
3	12	OWS	ND	ND	<10	NT	NT	NT	NT	NT
4	12	OWS	ND	<20	<10	NT	NT	NT	NT	NT
5	12	OWS	ND	<20	ND	NT	NT	NT	NT	NT
6	7	OWS	ND	<20	ND	ND	ND	NT	NT	NT
7	7	OWS	ND	<20	<10	NT	NT	NT	NT	NT
7 QA	7	OWS	NT	NT	NT	NT	NT	ND	ND	Ba,Cd
8	12	OWS	NT	NT	NT	NT	ND	ND	ND[1]	Ba
9	12	OWS	NT	NT	NT	NT	ND	ND	ND[2]	Ba
10	n/a	SWMU 8 & 9	NT	NT	NT	NT	ND	ND	ND	Ba

[1]Di-n-butylphthalate at 17 mg/Kg found in sample and laboratory method blank.
[2]Di-n-butylphthalate at 9.1 mg/Kg found in sample and laboratory method blank.
ND indicates non-detect
NT indicates not tested

UNIT DISPOSAL

The concrete from this unit was stockpiled on the abandoned runway site until samples were taken from the botton inside wall of the unit. This sample was mixed with nine other SWMU unit concrete samples to form a composite sample for laboratory analysis. The concrete sample was analyzed

using TCLP methods for metals, pesticides, volatiles and semivolatiles. Low levels of barium (0.5 mg/L), 2-Methylphenol (0.0068 mg/L) and 3,4-Methylphenol (0.0023 mg/L) were found in this sample. The concrete from this unit was disposed of in the City of Clovis Public Landfill in Clovis, New Mexico on April 16, 1997.

PROJECT COSTS

The total cost for SWMU 8 removal and restoration were $80,136.58 and are summarized in Table 4.1-8.

Table 4.1-8

SWMU 8 CONTRACT QUANTITIES AND COSTS				
Contract Bid Item No.	DESCRIPTION	$/UNIT	QUANTITY	COST($)
1	Mobilization/Demobilization	16.257/MI	0	0
2	Travel Cost pertaining to construction contract	1957.8/EA	0	0
15	Sawcut concrete	12.93/LF	0	0
16	Concrete removal and disposal	237.38/T	0	0
17	Concrete Replacement	154.82/CY	1	154.82
18	Sawcut Asphalt	1.5/LF	0	0
19	Asphalt removal and disposal	28.88/T	0	0
20	Asphalt replacement	34.96/SY	0	0
25	Waste Oils, Tank Contents, Pump, Transport, Dispose, Recycle and/or Treatment, Complete	5.09/GAL	0	0
26	Hazardous & Dangerous Substances, Tank Contents, Pump, Transport, Dispose and/or Treatment, Complete	56.76/GAL	0	0
27	Contaminated Water, Tank Contents, Pump, Transport, Recycle and/or Dispose, Complete	2.61/GAL	0	0
28	Non-Contaminated Water, Tank Contents, Pump, Transport, Recyclye and/or Dispose, Complete	0.86/GAL	6,008.23 GAL	5,167.08
29	Hazardous Soil, Including Excavation, Transportaion, Treatment, Disposal and Required Backfill Material, Complete	289.15/T	0	0

SWMU 8 CONTRACT QUANTITIES AND COSTS				
Contract Bid Item No.	DESCRIPTION	$/UNIT	QUANTITY	COST($)
30	Highly Contaminated Soil, Including Excavation, Transportaion, Treatment, Disposal and Required Backfill Material, Complete	90.75/T	0	0
33	Soil Sampling & Analysis, Method 8015 Modified (TPH), Complete	189.3/EA	4	757.20
38	Soil Sampling & Analysis, Method 6010 (Total Metals), Complete	539.20/EA	2	1,078.40
40	Remove OWSs,USTs and associated piping, Install new OWSs, all per drawings 0 and C1 through C12	LS	1	60,444.00
41	Removal and Disposal of Sludge from OWS	113.76/GAL	39.79 GAL	4,526.51
42	Soil Sampling & Analysis, Total BTEX Rapid Assay or Equivalent (Immunoassay-BTEX), Complete	158.01/EA	7	1,106.07
43	Soil Sampling & Analysis, Draft Method 4030 (Immunoassay-TPH), Complete	158.01/EA	7	1,106.07
44	Soil Sampling & Analysis, Method 8260 (VOAs), Complete	375.08/EA	2	750.16
45	Soil Sampling & Analysis, Method 8270 (Semi-VOAs), Complete	619.36/EA	2	1,238.78
46	Soil Sampling & Analysis, Method 8020 (BTEX), Complete	155.28/EA	2	310.56
47	Case 780D Backhoe, Operator & Laborer, Complete	140.5/HR	0	0
48	Soil Sampling & Analysis, Method 1311 (TCLP), Total Analyte List Metals and SVOCs, Complete	798.69/EA	2	1,597.38
49	Remove & Dispose of Non-hazardous Sludge from OWS (Partial drums that cannont be filled from another unit shall be paid as full drum)	203.53/55-GAL DRUM	7 55-GAL DRUMS	1,424.71
50	Remove & Dispose of Hazardous Sludge from OWS (Partial drums that cannont be filled from another unit shall be paid as full drum)	474.90/55-GAL DRUM	1 55-GAL DRUM	479.90

SWMU 8 CONTRACT QUANTITIES AND COSTS				
Contract Bid Item No.	DESCRIPTION	$/UNIT	QUANTITY	COST($)
Misc	New Fencing installed at SWMU 94	LS	0	0
TOTAL				$80,136.58

SWMU 8 RISK EVALUATION

Site Conceptual Exposure Model

There are three potentially unique mechanisms, or exposure pathways, by which an individual or population would come in contact with a chemical(s) of concern at SWMU 8: direct contact with soil, inhalation of airborne emissions from soil, and domestic use of groundwater on the Base or at the Base boundary. The persons, structures, utilities, surface waters, and water supply wells that are or may be adversely affected by a release at SWMU 8 are the potential receptors. The potential receptors include Base workers (e.g., military and Base personnel, Base contractors, construction workers, Base residents and Base visitors), and residential receptors at the Base boundary downgradient of the SWMU who may use the groundwater.

Comparison of Concentrations in Soil to Risk Based Screening Levels (RBSLs)

The ***EPA Region 6 Human Health Media-Specific Screening Levels,*** dated October 30, 1996, a "look-up" table, was used to determine whether site conditions satisfy the criteria for recommendation of regulatory closure or warrant a more site-specific evaluation. Maximum detected soil concentrations of volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs) and metals were compared to EPA Region VI risk-based screening levels (RBSLs) for residential soil to evaluate whether a significant release (i.e., capable of posing a risk to human health) has occurred at SWMU 8. EPA Region VI RBSLs were used for the comparison because they are a comprehensive and up-to-date list of RBSLs derived using accepted risk assessment methodology. As noted, Table 4.1-7 shows a summary of VOCs, SVOCs and metals detected in soil samples collected at SWMU 8. Table 4.1-9 delineates the maximum concentrations of metals detected at SWMU 8.

The SVOC, di-n-butylphthalate was detected in Sample No. 8 at a depth of 12 feet at a concentration of 17 mg/kg. Dibutylphthalate has a Region VI RBSL listing of 6500 mg/kg for residential soils and is considered non-carcinogenic. The RBSL is well above the levels detected in the soils at SWMU 8. Di-n-butylphthalate was also found in the laboratory method blank for this sample. After further data review, it is believed that the di-n-butylphthalate in this sample is a laboratory contaminant associated with plasticizers commonly found in laboratory equipment. Nine of the 19 SWMUs analyzed during this corrective measure showed di-n-butylphthalate contamination in the method 8270 blank analysis.

Table 4.1-9

SWMU 8 Maximum Soil Sample Concentrations of Metals						
Sample No.	Total Metals mg/Kg		TCLP Metals mg/L	Background Conc. Region VI / Cannon AFB[1] mg/Kg		Region VI Residential RBSL mg/Kg
7QA	Arsenic	3.61	<0.40	1.1 - 16.7	3.6	0.32 C
	Barium	202	0.84	430	805	5300 N
8	Chromium	10.7	<0.020	38	13.3	31 C
7QA	Lead	8.04	<0.05	10-18	7.1	400 N

N - noncarcinogenic
C - carcinogenic
NT - not tested

[1]CAFB Background Investigation, 1997

Arsenic was detected in Sample No. 7QA at a depth of 7 feet and at a concentration of 3.61 mg/kg. This concentration lies well within the Region VI background range, however, it exceeds the Region VI RBSL of 0.32 mg/kg for carcinogenic arsenic and the RBSL of 2.2 mg/Kg for non-carcinogenic arsenic. Since naturally occurring concentrations of arsenic in soils in this region are known to be relatively high and greatly exceed the carcinogenic RBSL of 0.32 mg/kg, it is impractical to impose this RBSL at this site. As an alternative, it is proposed to use ***The Background Investigation, Cannon Air Force Base, New Mexico,*** dated September 1997, value for arsenic in sub-surface soils of 3.6 mg/kg.

Among the metals analyzed, no other exceeds the respective Region VI background level or RBSL. In addition, this site is paved with asphalt and located in an industrial portion of the base. It can be reasonably asserted, therefore, that no chemicals were detected at concentrations which are likely to pose a potentially significant human health risk based on any current or future land use scenario for SWMU 8.

Evaluation of the Groundwater Pathway

The depth to groundwater is approximately 240 feet at Cannon AFB (Woodward Clyde, 1992). Additionally site lithology in the vadose zone, including clays and Caliche (calcium carbonate) layers, as well as the asphalt paving over the site, would tend to impede infiltration and dissolved-phase and pure-phase transport mechanisms. Organics are much more likely to be transported by dissolved-phase and pure-phase mechanisms than inorganics. Due to these considerations, unsaturated zone transport was assumed not to be a significant transport mechanism, therefore, the potential risks and hazards associated with groundwater use and ingestion were not considered as a valid or complete exposure pathway.

Risk Conclusion

The results of the soil investigation following the removal of the oil/water separator at SWMU 8 indicate that no chemical release that poses an unacceptable human health risk for any potential

exposure pathway has occurred at this SWMU and, therefore, no further evaluation of this SWMU is warranted.

4.1.4 SWMU 9

UNIT DESCRIPTION

SWMU 9 is a drain in the center of a concrete washrack pad used for cleaning aircraft. The washrack pad slopes to this drain which discharges to an oil/water separator (OWS), SWMU 8. The washrack pad is adjacent to SWMU 8. The drain/sandtrap was an underground, cast-in-place concrete box measuring 5-feet in length, 4-feet in width and 5-feet in depth. The walls of the unit were 6-inches thick and contained steel reinforcment. The sandtrap was connected to SWMU 8 by about 45 feet of 8-inch vitrified clay pipe. The unit was active from 1966, receiving washwater generated from aircraft frame washing. At least six months prior to this removal, a new OWS was installed about fifty feet northwest of and connected to the SWMU 9 sandtrap. It is assumed that, at the same time, the drain line to the OWS at SWMU 8 was plugged at the SWMU 9 sandtrap. The unit was surrounded on all sides by concrete.

A brass cap was placed along the northwest side of where the unit was located as shown in Figure 4.1-4. The point was surveyed by Lydeck Engineering at New Mexico State Plane Coordinates: North 1234490.46 and East 804308.30.

UNIT REMOVAL

On December 23, 1996, the concrete around the sandtrap was sawcut to allow access to the unit. On December 24, 1996, the contents of the unit were removed by a vacuum pump truck. The inside of the unit was cleaned with a high pressure washer. The interior walls were checked with the PID and no residual contamination was indicated by this instrument. On December 30, 1996 the excavation of two feet of soil surrounding the unit was begun. Excavated soils were stockpiled on a designated part of the abandoned runway. The outlet pipes were disconnected and temporarily capped. The sandtrap was broken up in the excavation, removed from the excavation and hauled to the storage area on the abandoned runway on January 2, 1997.

The soils around the joint at the sandtrap connecting it to the 8-inch line to SWMU 8 OWS were stained and fuel/solvent odors were observed. All of the stained soil was removed from the excavation. The soils around the joint connecting the sandtrap to the new OWS line were not stained. The breathing zone was monitored during all this work and did not exceed 1.3 photoionization detector (PID) units and the combustible gas indicator had readings <2% LEL and O_2 at 21%. The removal was routine and without incident.

The removal of this unit included the removal of the 8-inch vitrified clay pipe between the sandtrap and the OWS at SWMU 8. Between January 2nd and 9th, 1997, a 24-inch wide trench was opened between the units and the line was removed. The soils below the first joint in the concrete west of the sandtrap were observed to be stained and to emit fuel/solvent odors. The staining was gray-black in color and extended laterally about a foot on either side of the concrete joint, however the staining did not extend 6-inches vertically beyond the joint. Although, the remaining soils in the trench, above and below the 8-inch line were not stained or odiferous, all the soils from the trench were removed and the trench was backfilled with clean soils. The backfill soils were obtained off-base

and were analyzed in the laboratory for TCLP metals. Results of this analyses indicated only a low level of barium (1.3 mg/L).

On January 17, 1997, a new pre-cast sandtrap was placed in the SWMU 9 excavation. The outlet pipe to the remaining OWS northwest of the sandtrap was reconnected using 8-inch Schedule 40 PVC pipe. The excavation was filled with clean backfill and compacted to grade.

UNIT CONTENTS

Approximatly 110 gallons of sludge were removed from the unit. The sludge was sampled and sent for laboratory analysis. Laboratory analysis results for this material is reproduced in Appendix I. Results show that this material contained constituents commonly found in JP-fuels and solvents. This material was not a RCRA hazardous waste nor a DOT hazardous material. The sludge was placed in clean 55-gallon drums and disposed of off-base by Envirosolve Southwest, Inc. in Albuquerque, New Mexico. The disposal documentation for this material is reproduced in Appendix II.

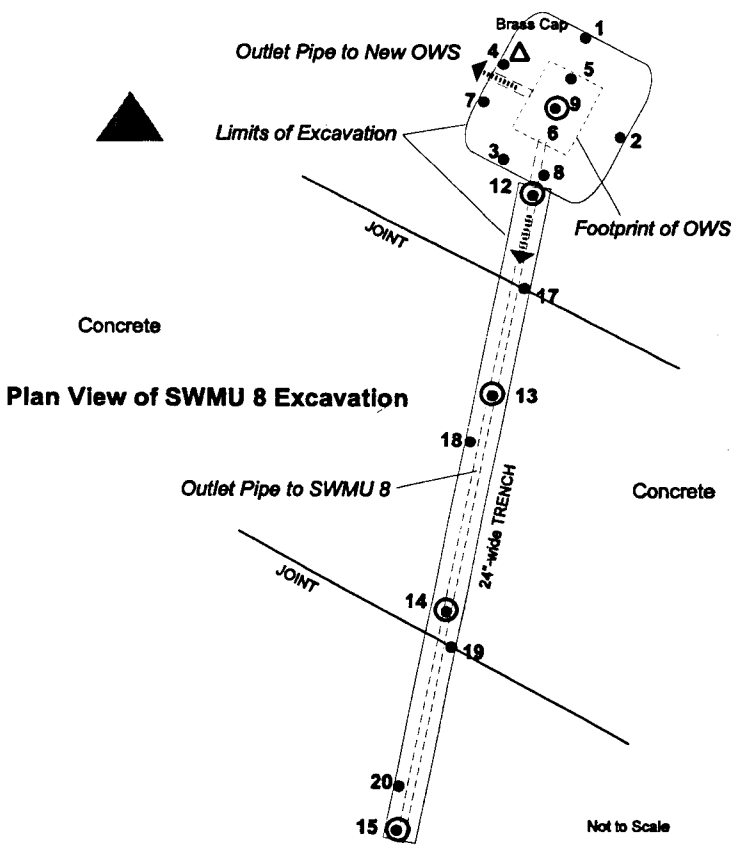

Figure 4.1-4. SWMU 9 Sample Locations

SOIL SAMPLING

Soil samples (Nos. 1 through 4 as shown in Fig. 4.1-4) were taken from the bottom of each of the four vertical sidewalls of the excavation at a depth of 8-feet below ground surface (bgs), and two samples (sample Nos. 5 and 6) were collected from the bottom of the excavation within the footprint of the unit, at a depth of 8 feet bgs, for on-site field analysis. Soil sample Nos. 7 and 8 were taken for field screening, from the sandtrap outlet areas, at a depth of 4 feet bgs. Field screening results are reported in Appendix III.

After field analysis of these samples using immunoassay method 4030 indicated that the Total Petroleum Hydrocarbon (TPH) content for each sample was below 20 ppm and BTEX content was 10 ppm or less, a confirmatory sample (No. 9) was taken from the center of the bottom of the excavation at a depth of 8 feet bgs, and sent for laboratory analysis. A duplicate

of sample Nos. 3 and 7 were submitted for laboratory analysis to correlate field results with laboratory results. Results for these duplicates indicate no BTEX or TPH (DRO) contamination.

Laboratory results for Sample No. 9 indicate no significant levels of organics or TCLP metals. Semivolatile contaminant di-n-butylphthalate at 15.0 mg/Kg, and the metal, barium at 1.2 mg/L were found in No. 9. Di-n-butylphthalate has repeatedly been found in samples and method blanks analyzed by the laboratory used for this corrective measure which may indicate that it is a laboratory contaminant problem and not actually present in the soil samples.

Sample No. 10 was taken as a composite from the excavated soils and submitted for TCLP RCRA 8 metals analysis. Sample No. 10 results indicated a barium level of 1.3 mg/L. Excavated soils were subsequently removed from the staging area and placed in the Base landfill.

Sample Nos. 11 through 20 were taken from the trench. Sample No. 11 was not analyzed. Sample Nos. 12 through 15 were taken from the floor of the trench and field screened using the PID and the Immunoassay Methods 4030s for TPH and BTEX. Sample No. 16 was taken as a composite from excavated trench soils and submitted for laboratory analysis. Results from No. 16 indicate no BTEX or TPH(DRO) contamination, and a metals level of barium at 1.2 mg/L. Sample Nos. 17 through 20 were taken from the sidewalls of the trench and field screened using the aforementioned methods.

A summary of soil sample results is shown in Table 4.1-10. Copies of laboratory analysis results for soils are provided in Appendix IV. All samples for SWMU 9 were labeled for identification in the following manner: CA(SWMU #)/(Sample #)-YY-MMDD-(24-hr time). For example, the SWMU 9 sample No. 7 in this text is identified by the laboratory as CA09/07-97-0109-1009.

Table 4.1-10

SUMMARY OF SWMU 9 SOIL SAMPLE RESULTS

No.	Depth ft	Location	PID units	4030 TPH ppm	4030 BTEX ppm	SWA846 8020A BTEX mg/Kg	SWA846 M8015 DRO mg/Kg	SWA846 8260 mg/Kg	SWA846 8270B SOX mg/Kg	TCLP Metals mg/L
1	8	Sandtrap	ND	<20	<10	NT	NT	NT	NT	NT
2	8	Sandtrap	ND	<20	<10	NT	NT	NT	NT	NT
3	8	Sandtrap	0.8	<100	<10	ND	ND	NT	NT	NT
4	8	Sandtrap	ND	20	<10	NT	NT	NT	NT	NT
5	8	Sandtrap	ND	<100	<10	NT	NT	NT	NT	NT
6	8	Sandtrap	0.4	<20	<10	NT	NT	NT	NT	NT
7	4	Sandtrap	1.3	<100	<50	ND	ND	NT	NT	NT

SUMMARY OF SWMU 9 SOIL SAMPLE RESULTS										
No.	Depth ft	Location	PID units	4030 TPH ppm	4030 BTEX ppm	SWA846 8020A BTEX mg/Kg	SWA846 M8015 DRO mg/Kg	SWA846 8260 mg/Kg	SWA846 8270B SOX mg/Kg	TCLP Metals mg/L
8	4	Sandtrap	1.7	<100	<50	NT	NT	NT	NT	NT
9	8	Sandtrap	NT	NT	NT	NT	ND	ND	ND[1]	Ba
10	n/a	excavated soil	NT	NT	NT	ND	ND	NT	NT	Ba
11	6	trench floor	NT	NT	NT	NT	NT	NT	NT	NT
12	6	trench floor	0.3	<100	<50	ND	ND	NT	NT	NT
13	6	trench floor	0.2	<100	<10	NT	NT	NT	NT	NT
14	6	trench floor	1.4	<100	<10	NT	NT	NT	NT	NT
15	6	trench floor	2.1	<100	<10	NT	NT	NT	NT	NT
16	n/a	excavated soil	NT	NT	NT	ND	ND	NT	NT	Ba
17	3	trench sidewall	22.3	<100	<300	ND	ND	NT	NT	NT
18	3	trench sidewall	0.3	<100	10	NT	NT	NT	NT	NT
19	3	trench sidewall	ND	<100	<50	NT	NT	NT	NT	NT
20	3	trench sidewall	ND	<100	<10	NT	NT	NT	NT	NT

[1] Only contaminant identified: Di-n-butylphalate at 15 mg/Kg.
ND indicates non-detect, or below detection limit
NT indicates not tested

UNIT DISPOSAL

The concrete from this unit was stockpiled on the abandoned runway site until samples were taken from the botton inside wall of the unit. This sample was mixed with five other SWMU unit concrete samples (SWMU 57, 51, 94, 32a, and 8) to form a composite sample for laboratory analysis. The concrete sample was analyzed using TCLP methods for metals, pesticides, volatiles

and semivolatiles. Only low levels of barium (0.5 mg/L), 2-methylphenol/o-cresol (0.0068 mg/L) and ¾-methylphenol/m/p-cresol (0.0023 mg/L) were found in this sample. The concrete from this unit was disposed of in the City of Clovis Public Landfill in Clovis, New Mexico on April 16, 1997.

PROJECT COSTS

The total cost for SWMU 9 removal and restoration were $24,542.45 and are summarized in Table 4.1-11.

Table 4.1-11

SWMU 9 CONTRACT QUANTITIES AND COSTS				
Contract Bid Item No.	DESCRIPTION	$/UNIT	QUANTITY	COST($)
1	Mobilization/Demobilization	16.257/MI	0	0
2	Travel Cost pertaining to construction contract	1957.8/EA	0	0
15	Sawcut concrete	12.93/LF	215 LF	2,779.95
16	Concrete removal and disposal	237.38/T	25.27 T	5,998.59
17	Concrete Replacement	154.82/CY	20 CY	3,096.40
18	Sawcut Asphalt	1.5/LF	0	0
19	Asphalt removal and disposal	28.88/T	0	0
20	Asphalt replacement	34.96/SY	0	0
25	Waste Oils, Tank Contents, Pump, Transport, Dispose, Recycle and/or Treatment, Complete	5.09/GAL	0	0
26	Hazardous & Dangerous Substances, Tank Contents, Pump, Transport, Dispose and/or Treatment, Complete	56.76/GAL	0	0
27	Contaminated Water, Tank Contents, Pump, Transport, Recycle and/or Dispose, Complete	2.61/GAL	0	0
28	Non-Contaminated Water, Tank Contents, Pump, Transport, Recyclye and/or Dispose, Complete	0.86/GAL	0	0
29	Hazardous Soil, Including Excavation, Trans-portaion, Treatment, Disposal and Required Backfill Material, Complete	289.15/T	0	0

SWMU 9 CONTRACT QUANTITIES AND COSTS				
Contract Bid Item No.	DESCRIPTION	$/UNIT	QUANTITY	COST($)
30	Highly Contaminated Soil, Including Excavation, Transportaion, Treatment, Disposal and Required Backfill Material, Complete	90.75/T	0	0
33	Soil Sampling & Analysis, Method 8015 Modified (TPH), Complete	189.3/EA	7	1,325.10
38	Soil Sampling & Analysis, Method 6010 (Total Metals), Complete	539.20/EA	1	539.20
40	Remove OWSs,USTs and associated piping, Install new OWSs, all per drawings 0 and C1 through C12	LS	0 (included in SWMU 8)	0
41	Removal and Disposal of Sludge from OWS	113.76/ GAL	0	0
42	Soil Sampling & Analysis, Total BTEX Rapid Assay or Equivalent (Immunoassay-BTEX), Complete	158.01/EA	16	2,528.16
43	Soil Sampling & Analysis, Draft Method 4030 (Immunoassay-TPH), Complete	158.01/EA	16	2,528.16
44	Soil Sampling & Analysis, Method 8260 (VOAs), Complete	375.08/EA	1	375.08
45	Soil Sampling & Analysis, Method 8270 (Semi-VOAs), Complete	619.36/EA	1	619.36
46	Soil Sampling & Analysis, Method 8020 (BTEX), Complete	155.28/EA	6	931.68
47	Case 780D Backhoe, Operator & Laborer, Complete	140.5/HR	0	0
48	Soil Sampling & Analysis, Method 1311 (TCLP), Total Analyte List Metals and SVOCs, Complete	798.69/EA	3	2,396.07
49	Remove & Dispose of Non-hazardous Sludge from OWS (Partial drums that cannont be filled from another unit shall be paid as full drum)	203.53/ 55-GAL DRUM	0	0
50	Remove & Dispose of Hazardous Sludge from OWS (Partial drums that cannont be filled from another unit shall be paid as full drum)	474.90/ 55-GAL DRUM	3	1,424.70

SWMU 9 CONTRACT QUANTITIES AND COSTS				
Contract Bid Item No.	DESCRIPTION	$/UNIT	QUANTITY	COST($)
Misc	New Fencing installed at SWMU 94	LS	0	0
TOTAL				$24,542.45

SWMU 9 RISK EVALUATION

Site Conceptual Exposure Model

There are three potentially unique mechanisms, or exposure pathways, by which an individual or population would come in contact with a chemical(s) of concern at SWMU 9: direct contact with soil, inhalation of airborne emissions from soil, and domestic use of groundwater on the Base or at the Base boundary. The persons, structures, utilities, surface waters, and water supply wells that are or may be adversely affected by a release at SWMU 9 are the potential receptors. The potential receptors include Base workers (e.g., military and Base personnel, Base contractors, construction workers, Base residents and Base visitors), and residential receptors at the Base boundary downgradient of the SWMU who may use the groundwater.

Comparison of Concentrations in Soil to Risk Based Screening Levels (RBSLs)

The ***EPA Region 6 Human Health Media-Specific Screening Levels,*** dated October 30, 1996, a look-up table, was used to determine whether site conditions satisfy the criteria for recommendation of regulatory closure or warrant a more site-specific evaluation. Maximum detected soil concentrations of volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs) and metals were compared to EPA Region VI risk-based screening levels (RBSLs) for residential soil to evaluate whether a significant release (i.e., capable of posing a risk to human health) has occurred at SWMU 9. EPA Region VI RBSLs were used for the comparison because they are a comprehensive and up-to-date list of RBSLs derived using accepted risk assessment methodology. As noted, Table 4.1-10 shows a summary of VOCs, SVOCs and metals detected in soil samples collected at SWMU 9. Table 4.1-12 delineates the maximum concentrations of metals detected at SWMU 9.

The SVOC, di-n-butylphthalate was detected in Sample No. 9 at a depth of 8 feet at a concentration of 15 mg/kg. Dibutylphthalate has a Region VI listing of 6500 mg/kg for residential soils and is considered non-carcinogenic. Di-n-butylphthalate was also found in the laboratory method blank for this sample. After further data review, it is believed that the di-n-butylphthalate in this sample is a laboratory contaminant associated with plasticizers commonly found in laboratory equipment. Nine of the 19 SWMUs analyzed during this corrective measure showed di-n-butylphthalate contamination in the method 8270 blank analysis.

Table 4.1-12

SWMU 9 Maximum Soil Sample Concentrations of Metals						
Sample No.	Total Metals mg/Kg		TCLP Metals mg/L	Background Conc. Region VI / Cannon AFB[1] mg/Kg		Region VI Residential RBSL mg/Kg
9	Arsenic	<3.0	<0.40	1.1 - 16.7	3.6	0.32 C
9	Barium	155	1.2	430	805	5300 N
	Chromium	4.4	<0.02	38	13.3	31 C
	Nickel	4.5	NT	16	11.4	1500 N
	Selenium	2.5	<0.05	10-18	1.1	380 N

N - noncarcinogenic
C - carcinogenic
NT - not tested

[1]CAFB Background Investigation, 1997

Arsenic was not detected in any of the samples above the total arsenic detectection limit of 3.0 mg/kg, however the detection limit exceeds the Region VI RBSL of 0.32 mg/kg for carcinogenic arsenic and the RBSL of 2.2 mg/Kg for non-carcinogenic arsenic. The concentration of <3.0 mg/kg lies well within the Region VI background range. Since naturally occurring concentrations of arsenic in soils in this region are known to be relatively high and greatly exceed the carcinogenic RBSL of 0.32 mg/kg, it is impractical to impose this RBSL at this site. As an alternative, it is proposed to use ***The Background Investigation, Cannon Air Force Base, New Mexico,*** dated September 1997, value for arsenic in subsurface soils of 3.6 mg/kg.

Among the metal analytes tested, none exceeds the respective Region VI RBSL. In addition, this site is paved with asphalt and located in an industrial portion of the base. It can be reasonably asserted, therefore, that no chemicals, other than arsenic, were detected at concentrations which are likely to pose a potentially significant human health risk based on any current or future land use scenario for SWMU 9.

Evaluation of the Groundwater Pathway

The depth to groundwater is approximately 240 feet at Cannon AFB (Woodward Clyde, 1992). Additionally site lithology in the vadose zone, including clays and Caliche (calcium carbonate) layers, as well as the asphalt paving over the site, would tend to impede infiltration and dissolved-phase and pure-phase transport mechanisms. Organics are much more likely to be transported by dissolved-phase and pure-phase mechanisms than inorganics. Due to these considerations, unsaturated zone transport was assumed not to be a significant transport mechanism, therefore, the potential risks and hazards associated with groundwater use and ingestion were not considered as a valid or complete exposure pathway.

Risk Conclusion

The results of the soil investigation following the removal of the oil/water separator at SWMU 9 indicate that no chemical release that poses an unacceptable human health risk for any potential exposure pathway has occurred at this SWMU and, therefore, no further evaluation of this SWMU is warranted.

4.1.5 SWMU 11

UNIT DESCRIPTION

This OWS was located adjacent to the northwest side of building 170 and below an airconditioning unit and pad. The OWS was a 3-compartment underground concrete box measuring 5-feet in length, 7-feet in width and 5-feet in depth. The walls of the unit were 6-inches thick and contained steel reinforcment. The unit functioned as an oil/water separator which received effluent from drains in hangar building 170 and drained to the sanitary sewer line (SWMU 98). The unit was active from 1963 to 1989. The unit was surrounded on all sides by asphalt.

A brass cap was placed at the easternmost corner of where the unit was located as shown in Figure 4.1-5. The point was surveyed by Lydeck Engineering at New Mexico State Plane Coordinates: North 1235370.90 and East 805171.53.

UNIT REMOVAL

On November 5, 1996, the contents of the unit were removed by a vacuum pump truck. The inside of the unit was cleaned with a high pressure washer. The exterior surface walls of the unit showed no signs of dark staining which would indicate that the unit leaked. The outer surface was checked with the PID and no residual contamination was indicated by this instrument. Two feet of soil surrounding the unit were excavated and stockpiled on a designated part of the abandoned runway. The soil surrounding the unit was not stained and had no oder. The inlet and outlet pipes were disconnected and temporarily capped. The breathing zone was monitored at a peak level of 0.0 units with the PID, <2% LEL and oxygen at 21% with the CGI. The removal was routine and without incident.

The excavation was shored with plywood to provide a safe working environment for field personnel working in the excavation. The inlet and outlet pipes were reconnected using 6-inch Schedule 40 PVC pipe. The excavation was filled with clean backfill and compacted to grade. The backfill soils were obtained off-base and were analyzed in the laboratory for TCLP metals. Results of this analyses indicated only a low level of barium (1.3 mg/L).

UNIT CONTENTS

Approximatly 531gallons of liquid and 51.3 gallons of sludge were removed from the unit. The sludge and the liquids were sampled and sent for laboratory analysis. Laboratory analysis results for this material is reproduced in Appendix I. Results show that this material contained low levels of barium, 0.22 mg/L in the liquids. This material was not a RCRA hazardous waste nor a DOT hazardous material. The sludge was placed in clean 55-gallon drums and disposed of off-base by Envirosolve Southwest, Inc. in Albuquerque, New Mexico. The disposal documentation for this material is reproduced in Appendix II.

SOIL SAMPLING

Soil samples (Nos. 1 through 4 as shown in Fig. 4.1-5) were taken from the bottom of each of the four vertical sidewalls of the excavation at a depth of 8-feet below ground surface (bgs), and two

samples (sample Nos. 5 and 6) were collected from the bottom of the excavation at a depth of 9 feet bgs, for on-site field analysis using immunoassay method 4030 . Field analysis results are reported in Appendix III.

After field analysis of these samples indicated that the Total Petroleum Hydrocarbon (TPH) content for each sample was below 20 ppm and BTEX content was 50 ppm or less, a confirmatory sample (No. 7) was taken from the center of the bottom of the excavation at a depth of 9 feet bgs, and sent for laboratory analysis. A duplicate of sample No. 5 was submitted for laboratory analysis to correlate field results with laboratory results. Soils removed from the excavation were observed to contain no petroleum odors and no visual staining. Stockpiled soils were field screened and samples were also submitted for laboratory analysis.

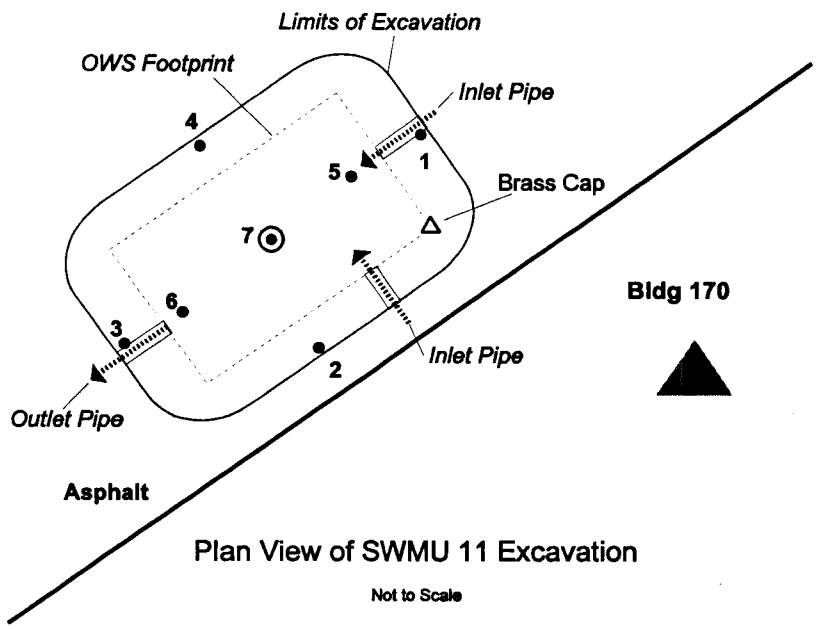

Figure. 4.1-5. SWMU 11 Sample Locations

Sample No. 7 was taken from the bottom of the excavation, and sent for laboratory analysis. Laboratory results for Sample No. 7 indicate no significant levels of organics or TCLP metals. The metal, barium was found at a level of 1.8 mg/L.

TCLP results for the excavated soils indicate only a trace amount of barium (0.9 mg/L), an element which is native in these soils and appears at the same level in the off-base backfill soils used to fill the excavations in this corrective measure. Excavated soils were subsequently removed from the staging area and placed in the Base landfill.

A summary of soil sample results is shown in Table 4.1-13. Copies of laboratory analysis results for soils are provided in Appendix IV. All samples for SWMU 11 were labeled for identification in the following manner: CA(SWMU #)/(Sample #)-YY-MMDD-(24-hr time). For example, the SWMU 11 sample No. 7 in this text is identified by the laboratory as CA011/7-97-0314-1136.

Table 4.1-13

SUMMARY OF SWMU 11 SOIL SAMPLE RESULTS										
No.	Depth ft	Location	PID units	4030 TPH ppm	4030 BTEX ppm	SWA846 8020A BTEX mg/Kg	SWA846 M8015 DRO mg/Kg	SWA846 8260 mg/Kg	SWA846 8270B SOX mg/Kg	TCLP Metals mg/L
1	8	OWS	ND	<20	<10	NT	NT	NT	NT	NT
2	8	OWS	ND	<20	<10	NT	NT	NT	NT	NT
3	8	OWS	ND	<20	<10	NT	NT	NT	NT	NT
4	8	OWS	ND	<20	10	ND	ND	NT	NT	NT
5	9	OWS	ND	<20	<50	ND	ND	NT	NT	NT
6	9	OWS	ND	ND	<50	ND	NT	NT	NT	NT
7	9	OWS	NT	NT	NT	NT	ND	ND	ND	Ba
8	n/a	excavated material	NT	NT	NT	ND	ND	NT	NT	Ba

ND indicates non-detect, or below detection limit
NT indicates not tested

UNIT DISPOSAL

The concrete from this unit was stockpiled on the abandoned runway site until samples were taken from the botton inside wall of the unit. This sample was mixed with nine other SWMU unit concrete samples to form a composite sample for laboratory analysis. The concrete sample was analyzed using TCLP methods for metals, pesticides, volatiles and semivolatiles. Only low levels of barium (1.2 mg/L) and benzene (0.002 mg/L) were found in this sample. The concrete from this unit was disposed of in the City of Clovis Public Landfill in Clovis, New Mexico on December 13, 1996.

PROJECT COSTS

The total cost for SWMU 11 removal and restoration were $31,940.56 and are summarized in Table 4.1-14.

Table 4.1-14

SWMU 11 CONTRACT QUANTITIES AND COSTS				
Contract Bid Item No.	DESCRIPTION	$/UNIT	QUANTITY	COST($)
1	Mobilization/Demobilization	16.257/MI	0	0
2	Travel Cost pertaining to construction contract	1957.8/EA	0	0

SWMU 11 CONTRACT QUANTITIES AND COSTS				
Contract Bid Item No.	DESCRIPTION	$/UNIT	QUANTITY	COST($)
15	Sawcut concrete	12.93/LF	0	0
16	Concrete removal and disposal	237.38/T	6.15 T	1,459.89
17	Concrete Replacement	154.82/CY	1.25 CY	193.52
18	Sawcut Asphalt	1.5/LF	49 LF	131.40
19	Asphalt removal and disposal	28.88/T	4.55 T	131.40
20	Asphalt replacement	34.96/SY	17.33 SY	605.86
25	Waste Oils, Tank Contents, Pump, Transport, Dispose, Recycle and/or Treatment, Complete	5.09/GAL	0	0
26	Hazardous & Dangerous Substances, Tank Contents, Pump, Transport, Dispose and/or Treatment, Complete	56.76/GAL	0	0
27	Contaminated Water, Tank Contents, Pump, Transport, Recycle and/or Dispose, Complete	2.61/GAL	531 GAL	1,385.91
28	Non-Contaminated Water, Tank Contents, Pump, Transport, Recyclye and/or Dispose, Complete	0.86/GAL	0	0
29	Hazardous Soil, Including Excavation, Trans-portaion, Treatment, Disposal and Required Backfill Material, Complete	289.15/T	0	0
30	Highly Contaminated Soil, Including Excavation, Transportaion, Treatment, Disposal and Required Backfill Material, Complete	90.75/T	0	0
33	Soil Sampling & Analysis, Method 8015 Modified (TPH), Complete	189.3/EA	4	757.20
38	Soil Sampling & Analysis, Method 6010 (Total Metals), Complete	539.20/EA	1	539.20
40	Remove OWSs,USTs and associated piping, Install new OWSs, all per drawings 0 and C1 through C12	LS	1	16,001.00
41	Removal and Disposal of Sludge from OWS	113.76/ GAL	51.33 GAL	5,839.30

SWMU 11 CONTRACT QUANTITIES AND COSTS				
Contract Bid Item No.	DESCRIPTION	$/UNIT	QUANTITY	COST($)
42	Soil Sampling & Analysis, Total BTEX Rapid Assay or Equivalent (Immunoassay-BTEX), Complete	158.01/EA	6	948.06
43	Soil Sampling & Analysis, Draft Method 4030 (Immunoassay-TPH), Complete	158.01/EA	6	948.06
44	Soil Sampling & Analysis, Method 8260 (VOAs), Complete	375.08/EA	1	375.08
45	Soil Sampling & Analysis, Method 8270 (Semi-VOAs), Complete	619.36/EA	1	619.36
46	Soil Sampling & Analysis, Method 8020 (BTEX), Complete	155.28/EA	3	465.84
47	Case 780D Backhoe, Operator & Laborer, Complete	140.5/HR	0	0
48	Soil Sampling & Analysis, Method 1311 (TCLP), Total Analyte List Metals and SVOCs, Complete	798.69/EA	2	1,597.38
49	Remove & Dispose of Non-hazardous Sludge from OWS (Partial drums that cannont be filled from another unit shall be paid as full drum)	203.53/ 55-GAL DRUM	0	0
50	Remove & Dispose of Hazardous Sludge from OWS (Partial drums that cannont be filled from another unit shall be paid as full drum)	474.90/ 55-GAL DRUM	0	0
Misc	New Fencing installed at SWMU 94	LS	0	0
TOTAL				$31,940.56

SWMU 111 RISK EVALUATION

Site Conceptual Exposure Model

There are three potentially unique mechanisms, or exposure pathways, by which an individual or population would come in contact with a chemical(s) of concern at SWMU 11: direct contact with soil, inhalation of airborne emissions from soil, and domestic use of groundwater on the Base or at the Base boundary. The persons, structures, utilities, surface waters, and water supply wells that are or may be adversely affected by a release at SWMU 11 are the potential receptors. The potential receptors include Base workers (e.g., military and Base personnel, Base contractors,

construction workers, Base residents and Base visitors), and residential receptors at the Base boundary downgradient of the SWMU who may use the groundwater.

Comparison of Concentrations in Soil to Risk Based Screening Levels (RBSLs)
The ***EPA Region 6 Human Health Media-Specific Screening Levels,*** dated October 30, 1996, a look-up table, was used to determine whether site conditions satisfy the criteria for recommendation of regulatory closure or warrant a more site-specific evaluation. Maximum detected soil concentrations of volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs) and metals were compared to EPA Region VI risk-based screening levels (RBSLs) for residential soil to evaluate whether a significant release (i.e., capable of posing a risk to human health) has occurred at SWMU 11. EPA Region VI RBSLs were used for the comparison because they are a comprehensive and up-to-date list of RBSLs derived using accepted risk assessment methodology. As noted, Table 4.1-13 shows a summary of VOCs,SVOCs and metals detected in soil samples collected at SWMU 11. Table 4.1-15 delineates the maximum concentrations of metals detected at SWMU 11.

Table 4.1-15

SWMU 11 Maximum Soil Sample Concentrations of Metals						
Sample No.	**Total Metals mg/Kg**		**TCLP Metals mg/L**	**Background Conc. Region VI / Cannon AFB[1] mg/Kg**		**Region VI Residential RBSL mg/Kg**
7	Barium	456	1.8	430	805	5300 N
	Chromium	5.4	<0.02	38	13.3	31 C
	Nickel	6.6	NT	16	11.4	1500 N
	Lead	7.6	<0.05	10-18	7.1	400 N

N - noncarcinogenic
C - carcinogenic
NT - not tested

[1]CAFB Background Investigation, 1997

Barium was the only chemical detected at a concentration which exceeded the Region VI background soil concentration of 430 mg/Kg. The listed residential RBSL of 5300 mg/kg is well above the maximum detected concentration of 456 mg/kg, therefore, the barium concentrations in the soil at SWMU 11 should pose no significant human health risk.

Among the metal analytes tested, no other exceeds the respective Region VI RBSL. In addition, this site is paved with asphalt and located in an industrial portion of the base. It can be reasonably asserted, therefore, that no chemicals were detected at concentrations which are likely to pose a potentially significant human health risk based on any current or future land use scenario for SWMU 11.

Evaluation of the Groundwater Pathway

The depth to groundwater is approximately 240 feet at Cannon AFB (Woodward Clyde, 1992). Additionally site lithology in the vadose zone, including clays and Caliche (calcium carbonate) layers, as well as the asphalt paving over the site, would tend to impede infiltration and dissolved-phase and pure-phase contaminant transport. Organics are much more likely to be transported by dissolved-phase and pure-phase mechanisms than are inorganics. Due to these considerations, unsaturated zone transport was assumed not to be a significant transport mechanism, therefore, the potential risks and hazards associated with groundwater use and ingestion were not considered as a complete in-direct exposure pathway.

Risk Conclusion

The results of the soil investigation following the removal of the oil/water separator at SWMU 11 indicate that no chemical release that poses an unacceptable human health risk for any potential exposure pathway has occurred at this SWMU and, therefore, no further evaluation of this SWMU is warranted.

4.1.6 SWMU 32a

UNIT DESCRIPTION

This unit was located adjacent to the south side of building 186, on the flightline side and adjacent to a washrack. The unit was an underground concrete box measuring 6-feet in length, 6-feet in width and 7-feet in depth. The walls of the unit were 6-inches thick and contained steel reinforcement. The unit was surrounded on all sides by asphalt paving. The unit functioned from 1971 until its removal as an oil/water separator which received effluent from wash racks for aircraft ground-support equipment. Recovered oils were directed from the main compartment to the 300-gallon oil-holding compartment and wastewater was discharged to the sanitary sewer line (SWMU 98).

A brass cap was placed at the western corner of where the unit was located as shown in Figure 4.1-6. The point was surveyed by Lydick Engineers at New Mexico State Plane Coordinates: North 1235922.85 and East 805634.38.

UNIT REMOVAL

On February 4, 1997, the contents of the unit were removed by a vacuum pump truck and the inside of the unit was cleaned with a high pressure washer. The adjacent two feet of soil that surrounded the unit was removed and stockpiled on a designated part of the abandoned runway. Visual staining and petroleum odor was not observed in the excavated material. The exterior walls of the unit had no dark staining which would have indicated that the unit had leaked. The inlet and outlet pipes were disconnected and temporarily capped. The breathing zone was monitored at a peak level of 0.3 units with the PID, <2% LEL and oxygen at 21% with the CGI.

On February 5, 1997, the OWS was removed from the excavation. Wooden shoring was used to protect field workers working in the excavation. The removal was routine and without incident. The breathing zone was monitored at a peak level of 0.0 units with the PID, <2% LEL and oxygen at 21% with the CGI.

A new OWS was placed in the same location as the previous unit. Reconnection from the sewer line to the new OWS was done using double contained inlet and outlet pipe and fittings. The excavation was filled with clean backfill and compacted to grade. The backfill soils were obtained off-base and were analyzed in the laboratory for TCLP metals. Results of this analyses indicated only a low level of barium (1.3 mg/L). The reinstallation of the new OWS was routine and without incident.

UNIT CONTENTS

Approximately 440gallons of liquid and 55 gallons of sludge were removed from the unit. The sludge and the liquids were sampled and sent for laboratory analysis. Laboratory analysis results for this material is reproduced in Appendix I. Results show that this material was a New Mexico Special Waste Material, due to a TPH/EPA estimated level of 91,500. It was not a RCRA hazardous waste nor a DOT hazardous material. The material was placed in clean 55-gallon

drums and manifested of off-base by Envirosolve Southwest, Inc. The disposal documentation for this material is reproduced in Appendix II.

SOIL SAMPLING

Soil samples (Nos. 1 through 4 as shown in Fig. 4.1-6) were taken from the bottom of each of the four vertical sidewalls of the excavation at a depth of 9-feet below ground surface (bgs), and two samples (Nos. 5 and 6) were collected from the bottom of the excavation at a depth of 9.5 feet bgs, for on-site field analysis. After field analysis of these samples using immunoassay method 4030 indicated that the Total Petroleum Hydrocarbon (TPH) content for each sample was below 20 ppm and BTEX content was below 10 ppm, a confirmatory sample (no. 7) was taken from the center of the bottom of the excavation at a depth of 10 feet bgs, and sent for laboratory analysis. Duplicates of samples Nos. 2 and 5 were submitted for laboratory analysis to correlate field findings with laboratory results. Laboratory analysis confirmed the field results for BTEX and TPH in both samples. Field sampling results are reported in Appendix III. Results for Sample No. 7 indicate no significant levels of organics or TCLP metals. Barium was found in No. 7 at 1.4 mg/L.

Soils removed from the excavation were observed to contain no petroleum odors and no visual staining. A sample of the excavated soils was submitted for laboratory analysis. Laboratory TCLP results of these soils indicate only a trace amount of barium (1.1mg/L), an element which is native in these soils and appears at the same level in the off-base backfill soils used to fill the excavations in this corrective measure. Excavated soils were subsequently removed from the staging area and placed in the Base landfill.

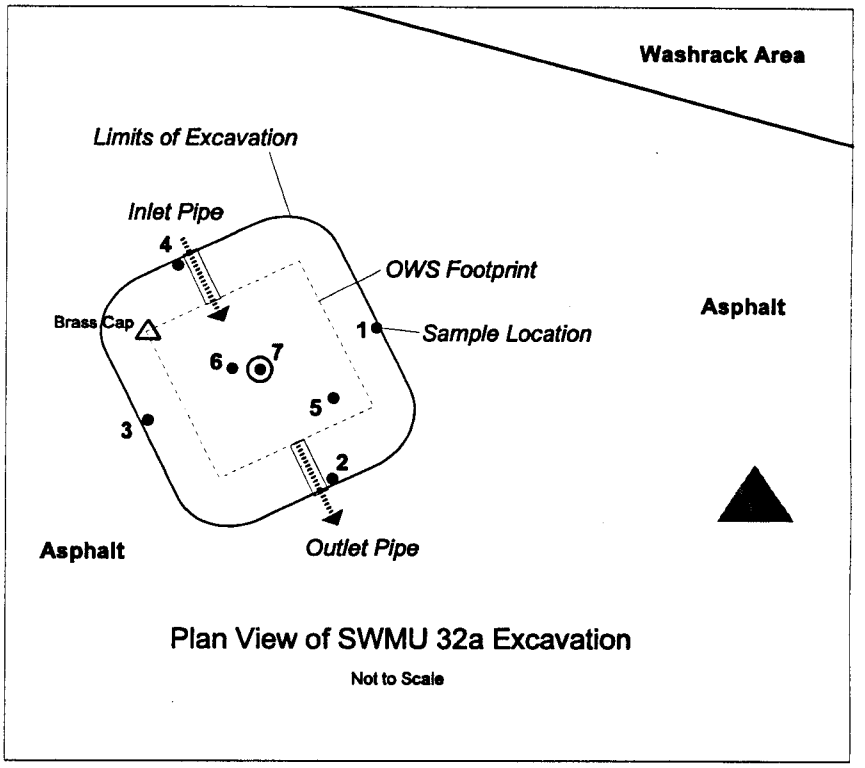

Figure. 4.1-6. SWMU 32a Sample Locations

The area around the OWS was visually and analytically clean, however the adjacent area under the concrete washrack appears to be contaminated. A trench was dug for an electrical line from the OWS to an adjacent unit's alarm system. Soil beneath the concrete slab was green and black in color and emitted a petroleum odor. It appears that drains in the washrack area are clogged and are unable to accept the surface runoff, so that the runoff does not flow into the new OWS. In

addition, the paved area adjacent to the west side of Building 186 is not contoured to direct runoff to the drain on the southwest side of the building which would normally send runoff to the new OWS.

A summary of soil sample results is shown in Table 4.1-16. Copies of laboratory analysis results for soils are provided in Appendix IV. All samples for SWMU 32a were labeled for identification in the following manner: CA(SWMU #)/(Sample #)-YY-MMDD-(24-hr time). For example, the SWMU 32a sample No. 7 in this text is identified by the laboratory as CA032a/7-97-0314-1136.

Table 4.1-16

SUMMARY OF SWMU 32a SOIL SAMPLE RESULTS

No.	Depth (ft)	Location	PID (units)	4030 TPH ppm	4030 BTEX ppm	SWA846 8020A BTEX mg/Kg	SWA846 M8015 DRO mg/Kg	SWA846 8260 mg/Kg	SWA846 8270B SOX mg/Kg	TCLP Metals mg/L
1	9	OWS	ND	<20	<10	NT	NT	NT	NT	NT
2	9	OWS	ND	<20	<10	ND	ND	NT	NT	NT
3	9	OWS	ND	<20	<10	NT	NT	NT	NT	NT
4	9	OWS	ND	<20	<10	NT	NT	NT	NT	NT
5	9.5	OWS	ND	<20	<10	ND	ND	NT	NT	NT
6	9.5	OWS	ND	<20	<10	NT	NT	NT	NT	NT
7	10	OWS	NT	NT	NT	NT	ND	ND	ND	Ba
8	n/a	excavated material	NT	NT	NT	ND	ND	NT	NT	Ba

ND indicates non-detect, or below detection limit
NT indicates not tested

UNIT DISPOSAL

The concrete from this unit was stockpiled on the abandoned runway site until samples were taken from the bottom inside wall of the unit. This sample was mixed with nine other SWMU unit concrete samples to form a composite sample for laboratory analysis. The concrete sample was analyzed using TCLP methods for metals, pesticides, volatiles and semivolatiles. Only low levels of barium (1.2 mg/L) and benzene (0.002 mg/L) were found in this sample. The concrete from this unit was disposed of in the City of Clovis Public Landfill in Clovis, New Mexico on April 16, 1997.

PROJECT COSTS

The total cost for SWMU 32a removal and restoration were $62,139.72 and are summarized in Table 4.1-17.

Table 4.1-17

SWMU 32a CONTRACT QUANTITIES AND COSTS				
Contract Bid Item No.	DESCRIPTION	$/UNIT	QUANTITY	COST($)
1	Mobilization/Demobilization	16.257/MI	0	0
2	Travel Cost pertaining to construction contract	1957.8/EA	0	0
15	Sawcut concrete	12.93/LF	0	0
16	Concrete removal and disposal	237.38/T	0	0
17	Concrete Replacement	154.82/CY	6.25 CY	967.62
18	Sawcut Asphalt	1.5/LF	0	0
19	Asphalt removal and disposal	28.88/T	3.53 T	101.95
20	Asphalt replacement	34.96/SY	0	0
25	Waste Oils, Tank Contents, Pump, Transport, Dispose, Recycle and/or Treatment, Complete	5.09/GAL	0	0
26	Hazardous & Dangerous Substances, Tank Contents, Pump, Transport, Dispose and/or Treatment, Complete	56.76/GAL	0	0
27	Contaminated Water, Tank Contents, Pump, Transport, Recycle and/or Dispose, Complete	2.61/GAL	0	0
28	Non-Contaminated Water, Tank Contents, Pump, Transport, Recyclye and/or Dispose, Complete	0.86/GAL	0	0
29	Hazardous Soil, Including Excavation, Transportaion, Treatment, Disposal and Required Backfill Material, Complete	289.15/T	0	0
30	Highly Contaminated Soil, Including Excavation, Transportaion, Treatment, Disposal and Required Backfill Material, Complete	90.75/T	0	0
33	Soil Sampling & Analysis, Method 8015 Modified (TPH), Complete	189.3/EA	5	946.50
38	Soil Sampling & Analysis, Method 6010 (Total Metals), Complete	539.20/EA	1	539.20
40	Remove OWSs,USTs and associated piping, Install new OWSs, all per drawings 0 and C1 through C12	LS	1	47,503.00

SWMU 32a CONTRACT QUANTITIES AND COSTS				
Contract Bid Item No.	DESCRIPTION	$/UNIT	QUANTITY	COST($)
41	Removal and Disposal of Sludge from OWS	113.76/ GAL	0	0
42	Soil Sampling & Analysis, Total BTEX Rapid Assay or Equivalent (Immunoassay-BTEX), Complete	158.01/EA	6	948.06
43	Soil Sampling & Analysis, Draft Method 4030 (Immunoassay-TPH), Complete	158.01/EA	6	948.06
44	Soil Sampling & Analysis, Method 8260 (VOAs), Complete	375.08/EA	1	375.08
45	Soil Sampling & Analysis, Method 8270 (Semi-VOAs), Complete	619.36/EA	1	619.36
46	Soil Sampling & Analysis, Method 8020 (BTEX), Complete	155.28/EA	4	621.12
47	Case 780D Backhoe, Operator & Laborer, Complete	140.5/HR	0	0
48	Soil Sampling & Analysis, Method 1311 (TCLP), Total Analyte List Metals and SVOCs, Complete	798.69/EA	3	2,396.07
49	Remove & Dispose of Non-hazardous Sludge from OWS (Partial drums that cannont be filled from another unit shall be paid as full drum)	203.53/ 55-GAL DRUM	0	0
50	Remove & Dispose of Hazardous Sludge from OWS (Partial drums that cannont be filled from another unit shall be paid as full drum)	474.90/ 55-GAL DRUM	13	6,173.70
Misc	New Fencing installed at SWMU 94	LS	0	0
TOTAL				**$62,139.72**

SWMU 32a RISK EVALUATION

Site Conceptual Exposure Model

There are three potentially unique mechanisms, or exposure pathways, by which an individual or population would come in contact with a chemical(s) of concern at SWMU 32a: direct contact with soil, inhalation of airborne emissions from soil, and domestic use of groundwater on the Base or at the Base boundary. The persons, structures, utilities, surface waters, and water supply wells that are or may be adversely affected by a release at SWMU 32a are the potential receptors. The potential receptors include Base workers (e.g., military and Base personnel, Base contractors, construction workers, Base residents and Base visitors), and residential receptors at the Base boundary downgradient of the SWMU who may use the groundwater.

Comparison of Concentrations in Soil to Risk Based Screening Levels (RBSLs)

The ***EPA Region 6 Human Health Media-Specific Screening Levels,*** dated October 30, 1996, a look-up table, was used to determine whether site conditions satisfy the criteria for recommendation of regulatory closure or warrant a more site-specific evaluation. Maximum detected soil concentrations of volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs) and metals were compared to EPA Region VI risk-based screening levels (RBSLs) for residential soil to evaluate whether a significant release (i.e., capable of posing a risk to human health) has occurred at SWMU 32a. EPA Region VI RBSLs were used for the comparison because they are a comprehensive and up-to-date list of RBSLs derived using accepted risk assessment methodology. As noted, Table 4.1-16 shows a summary of VOCs,SVOCs and metals detected in soil samples collected at SWMU 32a. Table 4.1-18 delineates the maximum concentrations of metals detected at SWMU 32a.

Table 4.1-18

SWMU 32a Maximum Soil Sample Concentrations of Metals

Sample No.	Total Metals mg/Kg		TCLP Metals mg/L	Background Conc. Region VI / Cannon AFB[1] mg/Kg		Region VI Residential RBSL mg/Kg
7	Arsenic	<3.0	<0.40	1.1 - 16.7	3.6	0.32 C
	Barium	125	1.4	430	805	5300 N
	Chromium	9.3	<0.02	38	13.3	31 C
	Nickel	6.5	NT	16	11.4	1500 N
	Lead	4.8	<0.05	10-18	7.1	400 N

N - noncarcinogenic
C - carcinogenic
NT - not tested

[1]CAFB Background Investigation, 1997

Arsenic was not detected in any of the samples above the total arsenic detectection limit of 3.0

mg/kg, however the detection limit is above the Region VI RBSL of 0.32 mg/kg for carcinogenic arsenic and the RBSL of 2.2 mg/Kg for non-carcinogenic arsenic. The concentration of <3.0 mg/kg lies well within the Region VI background range. Since naturally occurring concentrations of arsenic in soils in this region are known to be relatively high and greatly exceed the carcinogenic RBSL of 0.32 mg/kg, it is impractical to impose this RBSL at this site. As an alternative, it is proposed to use ***The Background Investigation, Cannon Air Force Base, New Mexico,*** dated September 1997, value for arsenic in subsurface soils of 3.6 mg/kg.

Among the metal analytes tested, none other exceeds the respective Region VI RBSL. In addition, this site is paved with asphalt and located in an industrial portion of the base. It can be reasonably asserted, therefore, that no chemicals, other than arsenic, were detected at concentrations which are likely to pose a potentially significant human health risk based on any current or future land use scenario for SWMU 32a.

Evaluation of the Groundwater Pathway

The depth to groundwater is approximately 240 feet at Cannon AFB (Woodward Clyde, 1992). Additionally site lithology in the vadose zone, including clays and Caliche (calcium carbonate) layers, as well as the asphalt paving over the site, would tend to impede infiltration and dissolved-phase and pure-phase contaminant transport. Organics are much more likely to be transported by dissolved-phase and pure-phase mechanisms than are inorganics. Due to these considerations, unsaturated zone transport was assumed not to be a significant transport mechanism, therefore, the potential risks and hazards associated with groundwater use and ingestion were not considered as a complete in-direct exposure pathway.

Risk Conclusion

The results of the soil investigation following the removal of the oil/water separator at SWMU 32a indicate that no chemical release that poses an unacceptable human health risk for any potential exposure pathway has occurred at this SWMU and, therefore, no further evaluation of this SWMU is warranted.

4.1.7 SWMU 33b

UNIT DESCRIPTION

This OWS unit was located adjacent to the southwest side of building 186, at the northwest corner. The unit was a 2-compartment underground concrete box measuring 6-feet in length, 6-feet in width and 7-feet in depth. The walls of the unit were 6-inches thick and contained steel reinforcement. The unit functioned as an oil/water separator which received effluent from drains in hangar building 186 from 1971. The recovered oils were held in the 140-gallon holding compartment and the wastewater was discharged to the sanitary sewer line (SWMU 98).

A brass cap was placed at the western corner of where the unit was located as shown in Figure 4.1-7. The point was surveyed by Lydick Engineers at New Mexico State Plane Coordinates: North 1236063.97 and East 805491.36.

UNIT REMOVAL

On October 23, 1996, the contents of the unit were removed by a vacuum pump truck and the inside of the unit was cleaned with a high pressure washer. Four drains supplying wastewater to SWMU 33b were also plugged with cement grout. The breathing zone was monitored at a peak level of 0.2 units with the PID, <2% LEL and oxygen at 21% with the CGI.

On October 24, 1996, the unit was pulled from the excavation and hauled to the storage area on the abandoned runway. The exterior wall, on the inlet side of the unit, had some dark staining which would indicate that the unit had leaked. The soil adjacent to this area (about 1.5 square feet) was also stained in color. The remaining two feet of soil surrounding the unit was not stained. The excavated soil was stockpiled on a designated part of the abandoned runway. The inlet and outlet pipes were disconnected and capped. The breathing zone was monitored at a peak level of 0.0 units with the PID, <2% LEL and oxygen at 21% with the CGI.

Wooden shoring was constructed in the excavation to protect field personnel working in there. The inlet and outlet pipes were reconnected using 6-inch Schedule 40 PVC pipe. The excavation was filled with clean backfill and compacted to grade. The backfill soils were obtained off-base and were analyzed in the laboratory for TCLP metals. Results of this analyses indicated only a low level of barium (1.3 mg/L).

UNIT CONTENTS

Approximately 523 gallons of liquid and 9.2 gallons of sludge were removed from the unit. The sludge and the liquids were sampled and sent for laboratory analysis. Laboratory analysis results for this material is reproduced in Appendix I. Total metal analysis indicated the possibility of high lead. The samples were analyzed using TCLP methods for lead and the results indicated no lead. This material was not a RCRA hazardous waste nor a DOT hazardous material. The sludge was placed in clean 55-gallon drums and disposed of off-base by Envirosolve Southwest, Inc. in Albuquerque, New Mexico. The disposal documentation for this material is reproduced in Appendix III.

SOIL SAMPLING

Soil samples (Nos. 1 through 4 as shown in Fig. 4.1-7) were taken from the bottom of each of the four vertical sidewalls of the excavation at a depth of 8-feet below ground surface (bgs), and two samples (sample Nos. 5 and 6) were collected from the bottom of the excavation at a depth of 9 feet bgs, for on-site field analysis. After field analysis of these samples using immunoassay method 4030 indicated that the Total Petroleum Hydrocarbon (TPH) content for each sample was below 20 ppm and BTEX content was below 10 ppm, a confirmatory sample (No. 7) was taken from the center of the bottom of the excavation at a depth of 9 feet bgs, and sent for laboratory analysis. Duplicate of samples Nos. 2 and 6 was submitted for laboratory analysis to correlate field results with laboratory results. Soils removed from the excavation were observed to contain no petroleum odors and no visual staining. Stockpiled soils were field screened and samples were also submitted for laboratory analysis.

Results for Sample No. 7 indicate no significant levels of organics or TCLP metals. Barium was found in Sample No. 7 at 1.1 mg/L. Laboratory results for sample Nos. 2 and 6 did not detect BTEX or TPH in either sample and field analysis indicated less than 10 ppm BTEX and less than 20 ppm TPH for both samples.

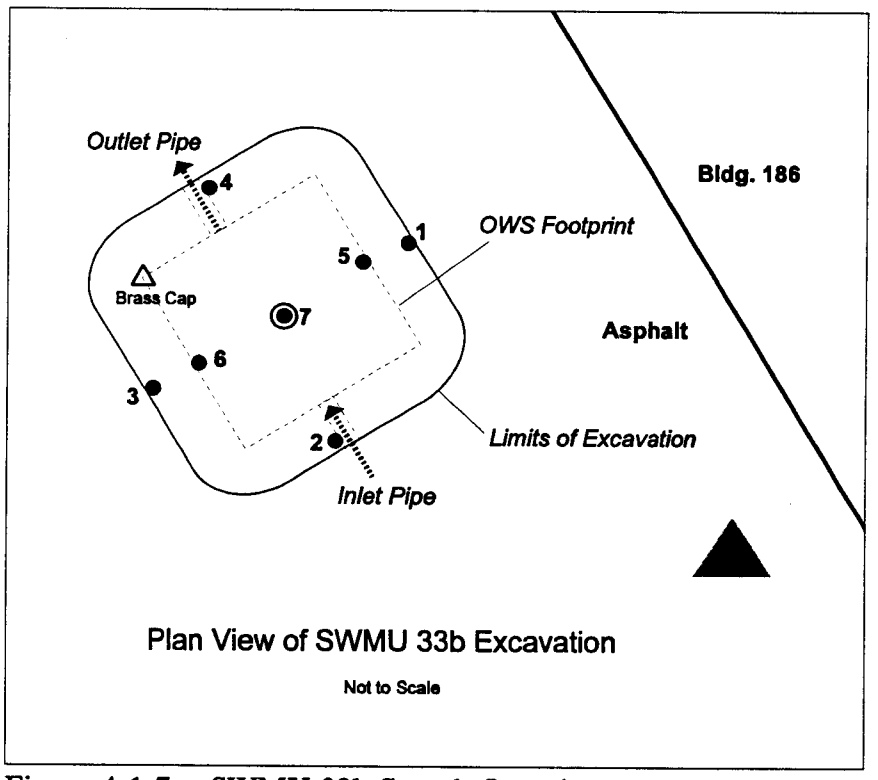

Figure 4.1-7. SWMU 33b Sample Locations

Excavated soil results for total metals testing indicated low levels of cadmium, chromium, nickel and lead. TCLP results indicate only a trace amount of Barium (1.3 mg/L), an element which is native in these soils and appears at the same level in the off-base backfill soils used to fill the excavations in this corrective measure. Excavated soils were subsequently removed from the staging area and placed in the Base landfill.

A summary of soil sample results is shown in Table 4.1-19. Copies of laboratory analysis results for soils are provided in Appendix IV. All samples for SWMU 33b were labeled for identification in the following manner: CA(SWMU #)/(Sample #)-YY-MMDD-(24-hr time). For example, the SWMU 33b sample No. 7 in this text is identified by the laboratory as CA033b/7-97-0314-1136.

Table 4.1-19

SUMMARY OF SWMU 33b SOIL SAMPLE RESULTS

No.	Depth (ft)	Location	PID (units)	4030 TPH ppm	4030 BTEX ppm	SWA846 8020A BTEX mg/Kg	SWA846 M8015 DRO mg/Kg	SWA846 8260 mg/Kg	SWA846 8270B SOX mg/kg	TCLP Metals mg/L
1	8	OWS	ND	<20	<10	NT	NT	NT	NT	NT
2	8	OWS	0.1	<20	<10	ND	ND	NT	NT	NT
3	8	OWS	ND	<20	<10	NT	NT	NT	NT	NT
4	8	OWS	ND	<20	<10	NT	NT	NT	NT	NT
5	9	OWS	ND	ND	ND	NT	NT	NT	NT	NT
6	9	OWS	0.3	<20	<10	ND	ND	NT	NT	NT
7	9	OWS	NT	NT	NT	NT	ND	ND	ND	Ba
8	n/a	excavated material	ND	<20	10	NT	NT	NT	NT	Ba

ND indicates non-detect, or below detection limit.
NT indicates not tested.

UNIT DISPOSAL

The concrete from this unit was stockpiled on the abandoned runway site until samples were taken from the bottom inside wall of the unit. This sample was mixed with nine other SWMU unit concrete samples to form a composite sample for laboratory analysis. The concrete sample was analyzed using TCLP methods for metals, pesticides, volatiles and semivolatiles. Only low levels of barium (1.2 mg/L) and benzene (0.002 mg/L) were found in this sample. The concrete from this unit was disposed of in the City of Clovis Public Landfill in Clovis, New Mexico on April 16, 1997.

PROJECT COSTS

The total cost for SWMU 33b removal and restoration were $24,476.76 and are summarized in Table 4.1-20.

Table 4.1-20

SWMU 33b CONTRACT QUANTITIES AND COSTS				
Contract Bid Item No.	DESCRIPTION	$/UNIT	QUANTITY	COST($)
1	Mobilization/Demobilization	16.257/MI	0	0
2	Travel Cost pertaining to construction contract	1957.8/EA	0	0
15	Sawcut concrete	12.93/LF	36 LF	465.48
16	Concrete removal and disposal	237.38/T	2.82 T	669.41
17	Concrete Replacement	154.82/CY	0	0
18	Sawcut Asphalt	1.5/LF	30 LF	45.00
19	Asphalt removal and disposal	28.88/T	7.17 T	207.07
20	Asphalt replacement	34.96/SY	16 SY	559.36
25	Waste Oils, Tank Contents, Pump, Transport, Dispose, Recycle and/or Treatment, Complete	5.09/GAL	0	0
26	Hazardous & Dangerous Substances, Tank Contents, Pump, Transport, Dispose and/or Treatment, Complete	56.76/GAL	0	0
27	Contaminated Water, Tank Contents, Pump, Transport, Recycle and/or Dispose, Complete	2.61/GAL	523 GAL	1,365.03
28	Non-Contaminated Water, Tank Contents, Pump, Transport, Recyclye and/or Dispose, Complete	0.86/GAL	0	0
29	Hazardous Soil, Including Excavation, Trans-portaion, Treatment, Disposal and Required Backfill Material, Complete	289.15/T	0	0
30	Highly Contaminated Soil, Including Excavation, Transportaion, Treatment, Disposal and Required Backfill Material, Complete	90.75/T	0	0
33	Soil Sampling & Analysis, Method 8015 Modified (TPH), Complete	189.3/EA	3	567.90
38	Soil Sampling & Analysis, Method 6010 (Total Metals), Complete	539.20/EA	2	1,078.40
40	Remove OWSs,USTs and associated piping, Install new OWSs, all per drawings 0 and C1 through C12	LS	1	15,358.00

SWMU 33b CONTRACT QUANTITIES AND COSTS				
Contract Bid Item No.	DESCRIPTION	$/UNIT	QUANTITY	COST($)
41	Removal and Disposal of Sludge from OWS	113.76/ GAL	9.2 GAL	1,046.59
42	Soil Sampling & Analysis, Total BTEX Rapid Assay or Equivalent (Immunoassay-BTEX), Complete	158.01/EA	7	1,106.07
43	Soil Sampling & Analysis, Draft Method 4030 (Immunoassay-TPH), Complete	158.01/EA	7	1,106.07
44	Soil Sampling & Analysis, Method 8260 (VOAs), Complete	375.08/EA	1	375.08
45	Soil Sampling & Analysis, Method 8270 (Semi-VOAs), Complete	619.36/EA	1	619.36
46	Soil Sampling & Analysis, Method 8020 (BTEX), Complete	155.28/EA	2	310.56
47	Case 780D Backhoe, Operator & Laborer, Complete	140.5/HR	0	0
48	Soil Sampling & Analysis, Method 1311 (TCLP), Total Analyte List Metals and SVOCs, Complete	798.69/EA	2	1,597.38
49	Remove & Dispose of Non-hazardous Sludge from OWS (Partial drums that cannont be filled from another unit shall be paid as full drum)	203.53/ 55-GAL DRUM	0	0
50	Remove & Dispose of Hazardous Sludge from OWS (Partial drums that cannont be filled from another unit shall be paid as full drum)	474.90/ 55-GAL DRUM	0	0
Misc	New Fencing installed at SWMU 94	LS	0	0
TOTAL				**$26,476.76**

SWMU 33b RISK EVALUATION

Site Conceptual Exposure Model

There are three potentially unique mechanisms, or exposure pathways, by which an individual or population would come in contact with a chemical(s) of concern at SWMU 33b: direct contact with soil, inhalation of airborne emissions from soil, and domestic use of groundwater on the Base or at the Base boundary. The persons, structures, utilities, surface waters, and water supply

wells that are or may be adversely affected by a release at SWMU 33b are the potential receptors. The potential receptors include Base workers (e.g., military and Base personnel, Base contractors, construction workers, Base residents and Base visitors), and residential receptors at the Base boundary downgradient of the SWMU who may use the groundwater.

Comparison of Concentrations in Soil to Risk Based Screening Levels (RBSLs)

The ***EPA Region 6 Human Health Media-Specific Screening Levels,*** dated October 30, 1996, a look-up table, was used to determine whether site conditions satisfy the criteria for recommendation of regulatory closure or warrant a more site-specific evaluation. Maximum detected soil concentrations of volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs) and metals were compared to EPA Region VI risk-based screening levels (RBSLs) for residential soil to evaluate whether a significant release (i.e., capable of posing a risk to human health) has occurred at SWMU 33b. EPA Region VI RBSLs were used for the comparison because they are a comprehensive and up-to-date list of RBSLs derived using accepted risk assessment methodology. As noted, Table 4.1-19 shows a summary of VOCs,SVOCs and metals detected in soil samples collected at SWMU 33b. Table 4.1-21 delineates the maximum concentrations of metals detected at SWMU 33b.

Table 4.1-21

SWMU 33b Maximum Soil Sample Concentrations of Metals						
Sample No.	**Total Metals mg/Kg**		**TCLP Metals mg/L**	**Background Conc. Region VI / Cannon AFB[1] mg/Kg**		**Region VI Residential RBSL mg/Kg**
7	Arsenic	<3.0	<0.40	1.1 - 16.7	3.6	0.32 C
	Barium	125	1.1	430	805	5300 N
	Cadmium	0.22	<0.0050	0.01 - 1.0	1.3	38N
	Chromium	6.1	<0.02	38	13.3	31 C
	Nickel	5.8	NT	16	11.4	1500 N
	Lead	4.6	<0.05	10-18	7.1	400 N

N - noncarcinogenic
C - carcinogenic
NT - not tested

[1]CAFB Background Investigation, 1997

Arsenic was not detected in any of the samples above the total arsenic detectection limit of 3.0 mg/kg, however the detection limit is above the Region VI RBSL of 0.32 mg/kg for carcinogenic arsenic and the RBSL of 2.2 mg/Kg for non-carcinogenic arsenic. The concentration of <3.0 mg/kg lies well within the Region VI background range. Since naturally occurring concentrations of arsenic in soils in this region are known to be relatively high and greatly exceed the carcinogenic RBSL of 0.32 mg/kg, it is impractical to impose this RBSL at this site. As an alternative, it is proposed to use ***The Background Investigation, Cannon Air Force Base, New***

Mexico, dated September 1997, value of arsenic in subsurface soils of 3.6 mg/kg.

Among the metals analyzed, none other was detected at a concentration which exceeded the Region VI RBSL. In addition, the site is paved and located in an industrial portion of the base. It can be reasonably be asserted, therefore, that no chemicals, other than arsenic, were detected at concentrations which are likely to pose a potentially significant human health risk based on any future land use scenario for SWMU 33b.

Evaluation of the Groundwater Pathway

The depth to groundwater is approximately 240 feet at Cannon AFB (Woodward Clyde, 1992). Additionally site lithology in the vadose zone, including clays and caliche (calcium carbonate) layers, as well as the asphalt paving over the site, would tend to impede infiltration and dissolved-phase and pure-phase contaminant transport. Organics are much more likely to be transported by dissolved-phase and pure-phase mechanisms than are inorganics. Due to these considerations, unsaturated zone transport was assumed not to be a significant transport mechanism, therefore, the potential risks and hazards associated with groundwater use and ingestion were not considered as a complete in-direct exposure pathway.

Risk Conclusion

The results of the soil investigation following the removal of the oil/water separator at SWMU 33b indicate that no chemical release that poses an unacceptable human health risk for any potential exposure pathway has occurred at this SWMU and, therefore, no further evaluation of this SWMU is warranted.

4.1.8 SWMU 38

UNIT DESCRIPTION

This OWS unit was located adjacent to the southeast corner of building 194. The unit was a 3-compartment underground concrete box measuring 9-feet in length, 7-feet in width and 12-feet in depth. The walls of the unit were 6-inches thick and contained steel reinforcment. The unit was surrounded on all sides by aphalt paving. The unit functioned as an oil/water separator which received effluent from drains in hangar building 194.

A brass cap was placed at the northwestern corner of where the unit was located as shown in Figure 4.1-8. The point was surveyed by Lydick Engineers at New Mexico State Plane Coordinates: North 1236539.28 and East 806430.65.

UNIT REMOVAL

On September 3 and 5, 1996, the contents of the unit were removed by a vacuum pump truck and the inside of the unit was cleaned with a high pressure washer. Field personnel cleaning the unit were dressed in level C protection. The breathing zone was monitored at a peak level of 0.0 units with the PID, <2% LEL and oxygen at 21% with the CGI.

Excavation around SWMU 38 began on September 11, 1996. After cleaning, the inside of the unit showed no signs of dark staining from the contents. The inside surface of the unit was checked with the PID and no residual contamination was indicated by this instrument. Surrounding soil was excavated to within 2 feet of the unit and removed to a stockpile area on a designated part of the abandoned runway. The inlet and outlet pipes were disconnected and temporarily capped. The breathing zone was monitored continuously and a peak level of 0.1 units with the PID, <2% LEL and oxygen at 21% with the CGI, were observed.

The top of the unit was removed and two 4-inch-diamerter holes were drilled in each of two opposite vertical sides of the oil/water separator so that a steel cable could be threaded through each hole and through the top of the unit to create four independent cables to lift the unit from the hole. On September 28, 1996, the unit was lifted intact from the excavation with a crane, and loaded onto a truck. The truck transported the waste concrete to the stockpile area for storage and sampling.

The inlet and outlet pipes were reconnected using 6-inch Schedule 40 PVC pipe. The excavation was filled with clean backfill and compacted to grade. The backfill soils were obtained off-base and were analyzed in the laboratory for TCLP metals. Results of this analyses indicated only a low level of barium (1.3 mg/L).

UNIT CONTENTS

The unit contained approximately 1,402 gallons of liquids and 104.5 gallons of sludge. The sludge and the liquids were sampled and sent for laboratory analysis. Laboratory analysis results

for this material is reproduced in Appendix I. Results show that this material contained low levels of barium, 2.51 mg/L in the sediments, and 0.15 mg/L in the liquids, and 0.213 mg/L of 3- and 4 -Methylphenol in the liquids. This material was not a RCRA hazardous waste nor a DOT hazardous material. This material was placed in clean 55-gallon drums and disposed of off-base by Envirosolve Southwest, Inc. in Albuquerque, New Mexico. The disposal documentation for this material is reproduced in Appendix II.

SOIL SAMPLING

An 8-foot long by 6-foot diameter corrogated metal pipe section was lowered into the excavation to provide shoring protection to field workers gathering the bottom samples. Soil samples (Nos. 2 through 5 as shown in Fig. 4.1-8) were taken from each of the four vertical sides of the excavation at a depth of 12 feet below ground surface (bgs), and two samples (sample Nos. 6 and 7) were collected from the bottom of the excavation at a depth of 14 feet bgs, for on-site field analysis. After field analysis of these samples, using immunoassay method 4030, indicated that the Total Petroleum Hydrocarbon (TPH) content for each sample was below 100 ppm and BTEX content was below 50 ppm, a confirmatory sample (No. 8) was taken from the center of the bottom of the excavation at a depth of 14 feet bgs, and sent for laboratory analysis. Field screening results are reproduced in Appendix III.

Duplicates of sample Nos. 4 and 5 were submitted for laboratory analysis and their results confirmed the field sampling results. Soils removed from the excavation were observed to contain no petroleum odors and no visual staining.

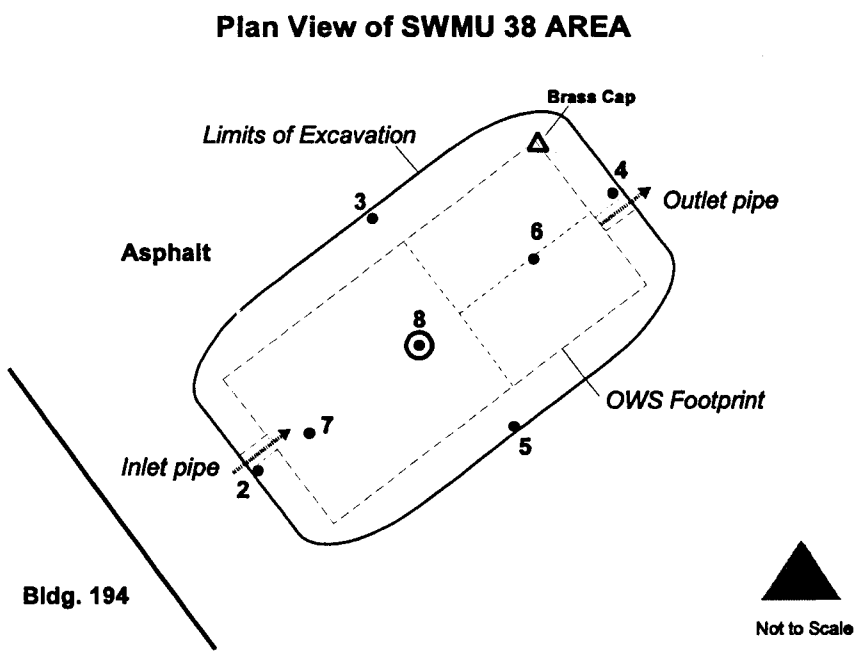

Figure 4.1-8. SWMU 38 Sample Locations

Sample No. 8 was taken from the bottom of the excavation, and sent for laboratory analysis. Results for Sample No. 8 indicate no significant levels of organics or heavy metals. Semivolatile contaminant di-n-butylphthalate at 13.0 mg/Kg, and barium at 0.8 mg/L were found in No. 8. Di-n-butylphthalate was also found in the laboratory method blank for this group of samples, indicating that it is probably a lab contaminant. The level of barium is significantly below the maximum concentration for the toxicity characteristic.

Excavated soils were field tested using the immunoassay method 4030 for TPH and BTEX. Results indicated the TPH level was less than 100 ppm and the BTEX level was less than 50 ppm. TCLP results on these metals, excluding nickel, indicated only a trace amount of barium (1.2 mg/L), an element which is native in these soils and appears at the same level in the off-base backfill soils used to fill the excavations in this corrective measure. These soils were subsequently removed from the staging area and used as backfill at the SWMU 112 leach field excavation.

A summary of soil sample results is shown in Table 4.1-22. Copies of all analysis results are provided in Appendix IV. All samples for SWMU 38 were labeled for identification in the following manner: CA(SWMU #)/(Sample #)-YY-MMDD-(24-hr time). For example, the SWMU 38 sample No. 7 in this text is identified by the laboratory as CA038/7-97-0314-1136.

Table 4.1-22

SUMMARY OF SWMU 38 SOIL SAMPLE RESULTS

No.	Depth (ft)	Location	PID units	4030 TPH ppm	4030 BTEX ppm	SWA846 8020A BTEX mg/Kg	SWA846 M8015 DRO mg/Kg	SWA846 8260 mg/Kg	SWA846 8270B SOX mg/Kg	TCLP Metals mg/L
1	n/a	excavated soils	ND	<20	<10	NT	NT	NT	NT	Ba
2	12	OWS	ND	ND	<10	NT	NT	NT	NT	NT
3	12	OWS	ND	ND	<10	NT	NT	NT	NT	NT
4	12	OWS	0.1	<20	<10	ND	ND	NT	NT	NT
5	12	OWS	ND	<20	ND	ND	ND	NT	NT	NT
6	14	OWS	ND	<20	ND	NT	NT	NT	NT	NT
7	7	OWS	ND	<20	<10	NT	NT	NT	NT	NT
8	12	OWS	NT	NT	NT	NT	ND	ND	ND[1]	Ba

[1]Only contaminant identified: Di-n-butylphthalate at 13.0 mg/Kg, which was also found in the laboratory method blank.
ND indicates non-detect
NT indicates not tested

UNIT DISPOSAL

The concrete from this unit was stockpiled on the abandoned runway site until samples were taken from the botton inside wall of the unit. This sample was mixed with eleven other SWMU unit concrete samples (Nos. 1, 7, 11, 39, 46, 47, 33b, 70, 92, 62 and 112) to form a composite sample for laboratory analysis. The concrete sample was analyzed using TCLP methods for metals, pesticides, volatiles and semivolatiles. The only target analytes found in this sample were low levels of barium

(1.2 mg/L) and benzene (0.002 mg/L). The concrete from this unit was disposed of in the City of Clovis Public Landfill in Clovis, New Mexico on December 13, 1996.

PROJECT COSTS

The total cost for SWMU 38 removal and restoration were $41,950.29 and are summarized in Table 4.1-23.

Table 4.1-23

SWMU 38 CONTRACT QUANTITIES AND COSTS				
Contract Bid Item No.	DESCRIPTION	$/UNIT	QUANTITY	COST($)
1	Mobilization/Demobilization	16.257/MI	0	0
2	Travel Cost pertaining to construction contract	1957.8/EA	0	0
15	Sawcut concrete	12.93/LF	0	0
16	Concrete removal and disposal	237.38/T	1.15	272.99
17	Concrete Replacement	154.82/CY	0	0
18	Sawcut Asphalt	1.5/LF	70 LF	105.00
19	Asphalt removal and disposal	28.88/T	1.38 T	39.85
20	Asphalt replacement	34.96/SY	34.03 SY	1,189.69
25	Waste Oils, Tank Contents, Pump, Transport, Dispose, Recycle and/or Treatment, Complete	5.09/GAL	0	0
26	Hazardous & Dangerous Substances, Tank Contents, Pump, Transport, Dispose and/or Treatment, Complete	56.76/GAL	0	0
27	Contaminated Water, Tank Contents, Pump, Transport, Recycle and/or Dispose, Complete	2.61/GAL	1406.67 GAL	3,671.41
28	Non-Contaminated Water, Tank Contents, Pump, Transport, Recyclye and/or Dispose, Complete	0.86/GAL	0	0
29	Hazardous Soil, Including Excavation, Transportaion, Treatment, Disposal and Required Backfill Material, Complete	289.15/T	0	0
30	Highly Contaminated Soil, Including Excavation, Transportaion, Treatment, Disposal and Required Backfill Material, Complete	90.75/T	0	0

SWMU 38 CONTRACT QUANTITIES AND COSTS				
Contract Bid Item No.	DESCRIPTION	$/UNIT	QUANTITY	COST($)
33	Soil Sampling & Analysis, Method 8015 Modified (TPH), Complete	189.3/EA	6	1,135.80
38	Soil Sampling & Analysis, Method 6010 (Total Metals), Complete	539.20/EA	2	1,078.40
40	Remove OWSs,USTs and associated piping, Install new OWSs, all per drawings 0 and C1 through C12	LS	1	16,340.00
41	Removal and Disposal of Sludge from OWS	113.76/ GAL	104.5 GAL	11,887.92
42	Soil Sampling & Analysis, Total BTEX Rapid Assay or Equivalent (Immunoassay-BTEX), Complete	158.01/EA	8	1,264.08
43	Soil Sampling & Analysis, Draft Method 4030 (Immunoassay-TPH), Complete	158.01/EA	8	1,264.08
44	Soil Sampling & Analysis, Method 8260 (VOAs), Complete	375.08/EA	1	375.08
45	Soil Sampling & Analysis, Method 8270 (Semi-VOAs), Complete	619.36/EA	1	619.36
46	Soil Sampling & Analysis, Method 8020 (BTEX), Complete	155.28/EA	2	310.56
47	Case 780D Backhoe, Operator & Laborer, Complete	140.5/HR	0	0
48	Soil Sampling & Analysis, Method 1311 (TCLP), Total Analyte List Metals and SVOCs, Complete	798.69/EA	3	2,396.07
49	Remove & Dispose of Non-hazardous Sludge from OWS (Partial drums that cannont be filled from another unit shall be paid as full drum)	203.53/ 55-GAL DRUM	0	0
50	Remove & Dispose of Hazardous Sludge from OWS (Partial drums that cannont be filled from another unit shall be paid as full drum)	474.90/ 55-GAL DRUM	0	0
Misc	New Fencing installed at SWMU 94	LS	0	0
TOTAL				**$41,950.29**

SWMU 38 RISK EVALUATION

Site Conceptual Exposure Model

There are three potentially unique mechanisms, or exposure pathways, by which an individual or population would come in contact with a chemical(s) of concern at SWMU 38: direct contact with soil, inhalation of airborne emissions from soil, and domestic use of groundwater on the Base or at the Base boundary. The persons, structures, utilities, surface waters, and water supply wells that are or may be adversely affected by a release at SWMU 38 are the potential receptors. The potential receptors include Base workers (e.g., military and Base personnel, Base contractors, construction workers, Base residents and Base visitors), and residential receptors at the Base boundary downgradient of the SWMU who may use the groundwater.

Comparison of Concentrations in Soil to Risk Based Screening Levels (RBSLs)

The ***EPA Region 6 Human Health Media-Specific Screening Levels,*** dated October 30, 1996, a look-up table, was used to determine whether site conditions satisfy the criteria for recommendation of regulatory closure or warrant a more site-specific evaluation. Maximum detected soil concentrations of volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs) and metals were compared to EPA Region VI risk-based screening levels (RBSLs) for residential soil to evaluate whether a significant release (i.e., capable of posing a risk to human health) has occurred at SWM32a. EPA Region VI RBSLs were used for the comparison because they are a comprehensive and up-to-date list of RBSLs derived using accepted risk assessment methodology. As noted, Table 4.1-22 shows a summary of VOCs,SVOCs and metals detected in soil samples collected at SWMU 38. Table 4.1-24 delineates the maximum concentrations of metals detected at SWMU 38.

The SVOC di-n-butylphthalate was detected in Sample No. 8 at a depth of 12 feet bgs, and a concentration of 13 mg/Kg. Dibutylphthalate has a Region VI listing of 6500 mg/kg for residential soils and is considered non-carcinogenic. Di-n-butylphthalate was also found in the laboratory method blank for this sample. After further data review, it is believed that the di-n-butylphthalate in this sample is a laboratory contaminant associated with plasticizers commonly found in laboratory equipment. Nine of the 19 SWMUs analyzed during this corrective measure showed di-n-butylphthalate contamination in the method 8270 blank analysis.

Table 4.1-24

SWMU 38 Maximum Soil Sample Concentrations of Metals						
Sample No.	Total Metals mg/Kg		TCLP Metals mg/L	Background Conc. Region VI / Cannon AFB[1] mg/Kg		Region VI Residential RBSL mg/Kg
7	Barium	54.4	1.2	430	642	5300 N
	Chromium	8	<0.02	38	13.3	31 C
	Nickel	6.5	NT	16	11.4	1500 N
	Lead	4.2	<0.05	10-18	7.1	400 N

N - noncarcinogenic
C - carcinogenic
NT - not tested

[11]CAFB Background Investigation, 1997

Arsenic was not detected in any of the samples above the total arsenic detectection limit of 3.0 mg/kg, however the detection limit is above the Region VI RBSL of 0.32 mg/kg for carcinogenic arsenic and the RBSL of 2.2 mg/Kg for non-carcinogenic arsenic. The concentration of <3.0 mg/kg lies well within the Region VI background range. Since naturally occurring concentrations of arsenic in soils in this region are known to be relatively high and greatly exceed the carcinogenic RBSL of 0.32 mg/kg, it is impractical to impose this RBSL at this site. As an alternative, it is proposed to use ***The Background Investigation, Cannon Air Force Base, New Mexico,*** dated September 1997, value for arsenic in subsurface soils of 3.6 mg/kg.

Among the metal analytes tested, none other exceeds the respective Region VI RBSL. In addition, this site is paved with asphalt and located in an industrial portion of the base. It can be reasonably asserted, therefore, that no chemicals were detected at concentrations which are likely to pose a potentially significant human health risk based on any current or future land use scenario for SWMU 38.

Evaluation of the Groundwater Pathway

The depth to groundwater is approximately 240 feet at Cannon AFB (Woodward Clyde, 1992). Additionally site lithology in the vadose zone, including clays and Caliche (calcium carbonate) layers, as well as the asphalt paving over the site, would tend to impede infiltration and dissolved-phase and pure-phase contaminant transport. Organics are much more likely to be transported by dissolved-phase and pure-phase mechanisms than are inorganics. Due to these considerations, unsaturated zone transport was assumed not to be a significant transport mechanism, therefore, the potential risks and hazards associated with groundwater use and ingestion were not considered as a complete in-direct exposure pathway.

Risk Conclusion

The results of the soil investigation following the removal of the oil/water separator at SWMU 38 indicate that no chemical release that poses an unacceptable human health risk for any potential exposure pathway has occurred at this SWMU and, therefore, no further evaluation of this SWMU is warranted.

4.1.9 SWMU 39

UNIT DESCRIPTION

This unit was located adjacent to the northeast corner of building 195. The unit was a 3-compartment underground concrete box measuring 7-feet in length, 9-feet in width and 8-feet in depth. The walls of the unit were 6-inches thick and contained steel reinforcment. The unit functioned as an oil/water separator from 1971 until its removal and received effluent from drains in hangar building 195. Recovered oils were held in the 140-gallon compartment of the unit and the wastewater is discharfed to the storm drainage system withc flows to SWMU 95. The unit was surrounded on all sides by asphalt paving.

After removal, a brass cap was placed at the southernmost corner to mark its former location as shown in Figure 4.1-9. The point was surveyed by Lydick Engineers at New Mexico State Plane Coordinates: North 1236744.65 and East 806648.87.

UNIT REMOVAL

On September 24, 1996, the contents of the unit were removed by a vacuum pump truck and the inside of the unit was cleaned with a high pressure washer. The exterior surface walls of the unit showed no signs of dark staining from the contents leaking out. The surface unit was checked with the PID and no residual contamination was indicated by this instrument. Soil surrounding the inlet pipe appeared to be saturated with water but, was not stained and had no odor. Adjacent two feet of soil surrounding the unit was excavated and stockpiled on a designated part of the abandoned runway. The inlet and outlet pipes were disconnected and temporarily capped. The soil around the inlet pipe was saturated with water. The breathing zone was monitored continuously, and a peak level of 0.0 units with the PID, <2% LEL and oxygen at 21% with the CGI, were observed.

Two 4-inch holes were drilled in each of two opposite vertical sides of the oil/water separator so that a steel cable could be threaded through each hole and through the top of the unit to create four independent cables to lift the unit from the hole. On September 28, 1996, the unit was lifted by a crane, intact from the excavation and loaded onto a truck. The truck transported the waste concrete to the stockpile area for storage and sampling. The removal of the unit was routine and without incident.

Wooden shoring was placed in the excavation for safety. The inlet and outlet pipes were connected to form one line, using 6-inch Schedule 40 PVC pipe. The excavation was filled with clean backfill and compacted to grade. The backfill soils were obtained off-base and were analyzed in the laboratory for TCLP metals. Results of this analyses indicated only a low level of barium (1.3 mg/L).

UNIT CONTENTS

Approximatly 1325.30 gallons of liquid and 71.5 gallons of sludgewere removed from the unit. The sludge and the liquids were sampled and sent for laboratory analysis. Laboratory analysis results

for this material is reproduced in Appendix I. Results show that this material was not a RCRA hazardous waste nor a DOT hazardous material, but was classified as a New Mexico Special Waste. This material was placed in clean 55-gallon drums and disposed of off-base by Envirosolve Southwest, Inc. in Albuquerque, New Mexico. The disposal documentation for this material is reproduced in Appendix II.

SOIL SAMPLING

Soil samples (Nos. 1 through 4 as shown in Fig. 4.1-9) were taken from each of the four vertical sides of the excavation at a depth of 8.5-feet below ground surface (bgs), and two samples (Nos. 5 and 6) were collected from the bottom of the excavation at a depth of 9 feet bgs, for on-site field analysis. After field analysis of these samples using immunoassay method 4030 indicated that the Total Petroleum Hydrocarbon (TPH) content for each sample was below 100 ppm and BTEX content was below 50 ppm, a confirmatory sample (no. 7) was taken from the center of the bottom of the excavation at a depth of 9 feet bgs, and sent for laboratory analysis. A duplicate of sample No. 5 was submitted for laboratory analysis to correlate with the immunoassay methods. Results for sample No. 5 confirm the field screening results. Field screening results are reproduced in Appendix III.

Soils removed from the excavation were observed to contain no petroleum odors and no visual staining. Excavated soils were field screened and samples were also submitted for laboratory analysis.

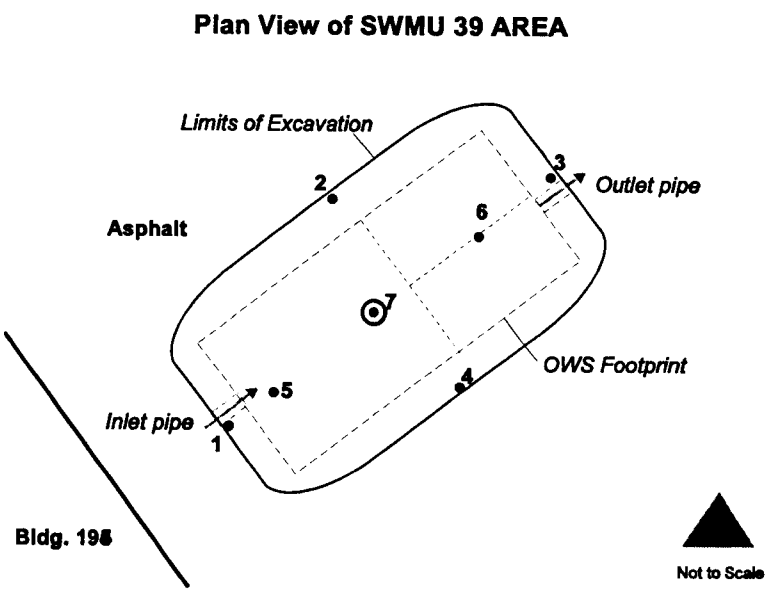

Figure 4.1-9. SWMU 39 Sample Locations

Results for Sample No. 7 indicate no levels of organics or heavy metals at or above the statutory limits. The only target analytes found in this sample were di-n-butylphthalate at 27 mg/Kg, barium at 1.3 mg/L and lead at 0.06 mg/L Di-n-butylphthalate was also found in the method blank, indicating that it may not be present in the soil sample.

Laboratory results for the excavated soils indicated only a trace amount of Barium (1.2mg/L), an element which is native in these soils and appears at the same level in the off-base backfill soils used to fill the excavations in this corrective measure. Excavated soils were

subsequently removed from the staging area and used as backfill at the SWMU 112 leach field excavation.

A summary of soil sample results is shown in Table 4.1-25. Copies of all analysis results are provided in Appendix IV. All samples for SWMU 39 were labeled for identification in the following manner: CA(SWMU #)/(Sample #)-YY-MMDD-(24-hr time). For example, the SWMU 39 sample No. 7 in this text is identified by the laboratory as CA039/7-97-0314-1136.

Table 4.1-25

SUMMARY OF SWMU 39 SOIL SAMPLES RESULTS

No.	Depth (ft)	Location	PID (units)	4030 TPH ppm	4030 BTEX ppm	SWA846 8020A BTEX mg/Kg	SWA846 M8015 DRO mg/Kg	SWA846 8260 mg/Kg	SWA846 8270B SOX mg/Kg	TCLP Metals mg/L
1	8.5	OWS	ND	<15	<50	NT	NT	NT	NT	NT
2	8.5	OWS	ND	<15	<10	NT	NT	NT	NT	NT
3	8.5	OWS	ND	<15	<50	NT	NT	NT	NT	NT
4	8.5	OWS	ND	<15	<10	NT	NT	NT	NT	NT
5	9	OWS	0.3	<15	<10	ND	ND	NT	NT	NT
6	9	OWS	0.1	<15	<10	NT	NT	NT	NT	NT
7	9	OWS	NT	NT	NT	NT	ND	ND	ND[1]	Ba, Pb
8	N/A	OWS	ND	<100	<10	NT	NT	NT	NT	Ba

[1]The only contaminant was Di-n-butylphthalate at 27 mg/K. It was also found in the lab method blank.
ND indicates non-detect
NT indicates not tested

UNIT DISPOSAL

The concrete from this unit was stockpiled on the abandoned runway site until samples were taken from the botton inside wall of the unit. This sample was mixed with ten other SWMU unit concrete samples (Nos. 1, 7, 11, 38, 46, 47, 33b, 70, 92 and 112) to form a composite sample for laboratory analysis. The concrete sample was analyzed using TCLP methods for metals, pesticides, volatiles and semivolatiles. Only low levels of barium (1.2 mg/L) and benzene (0.002 mg/L) were found in this sample. The concrete from this unit was disposed of in the City of Clovis Public Landfill in Clovis, New Mexico on December 13, 1996.

PROJECT COSTS

The total cost for SWMU 39 removal and restoration were $34,763.78 and are summarized in Table 4.1-26.

Table 4.1-26

SWMU 39 CONTRACT QUANTITIES AND COSTS				
Contract Bid Item No.	DESCRIPTION	$/UNIT	QUANTITY	COST($)
1	Mobilization/Demobilization	16.257/MI	0	0
2	Travel Cost pertaining to construction contract	1957.8/EA	0	0
15	Sawcut concrete	12.93/LF	0	0
16	Concrete removal and disposal	237.38/T	0	0
17	Concrete Replacement	154.82/CY	0	0
18	Sawcut Asphalt	1.5/LF	56 LF	84.00
19	Asphalt removal and disposal	28.88/T	1.38 T	39.85
20	Asphalt replacement	34.96/SY	32.3 SY	1,129.21
25	Waste Oils, Tank Contents, Pump, Transport, Dispose, Recycle and/or Treatment, Complete	5.09/GAL	0	0
26	Hazardous & Dangerous Substances, Tank Contents, Pump, Transport, Dispose and/or Treatment, Complete	56.76/GAL	0	0
27	Contaminated Water, Tank Contents, Pump, Transport, Recycle and/or Dispose, Complete	2.61/GAL	1,325.3 GAL	3,459.03
28	Non-Contaminated Water, Tank Contents, Pump, Transport, Recyclye and/or Dispose, Complete	0.86/GAL	0	0
29	Hazardous Soil, Including Excavation, Transportaion, Treatment, Disposal and Required Backfill Material, Complete	289.15/T	0	0
30	Highly Contaminated Soil, Including Excavation, Transportaion, Treatment, Disposal and Required Backfill Material, Complete	90.75/T	0	0
33	Soil Sampling & Analysis, Method 8015 Modified (TPH), Complete	189.3/EA	4	757.20
38	Soil Sampling & Analysis, Method 6010 (Total Metals), Complete	539.20/EA	2	1,078.40
40	Remove OWSs,USTs and associated piping, Install new OWSs, all per drawings 0 and C1 through C12	LS	1	15,123.00

SWMU 39 CONTRACT QUANTITIES AND COSTS				
Contract Bid Item No.	DESCRIPTION	$/UNIT	QUANTITY	COST($)
41	Removal and Disposal of Sludge from OWS	113.76/ GAL	71.5 GAL	8,133.84
42	Soil Sampling & Analysis, Total BTEX Rapid Assay or Equivalent (Immunoassay-BTEX), Complete	158.01/EA	7	1,106.07
43	Soil Sampling & Analysis, Draft Method 4030 (Immunoassay-TPH), Complete	158.01/EA	7	1,106.07
44	Soil Sampling & Analysis, Method 8260 (VOAs), Complete	375.08/EA	1	375.08
45	Soil Sampling & Analysis, Method 8270 (Semi-VOAs), Complete	619.36/EA	1	619.36
46	Soil Sampling & Analysis, Method 8020 (BTEX), Complete	155.28/EA	1	155.28
47	Case 780D Backhoe, Operator & Laborer, Complete	140.5/HR	0	0
48	Soil Sampling & Analysis, Method 1311 (TCLP), Total Analyte List Metals and SVOCs, Complete	798.69/EA	2	1,597.38
49	Remove & Dispose of Non-hazardous Sludge from OWS (Partial drums that cannont be filled from another unit shall be paid as full drum)	203.53/ 55-GAL DRUM	0	0
50	Remove & Dispose of Hazardous Sludge from OWS (Partial drums that cannont be filled from another unit shall be paid as full drum)	474.90/ 55-GAL DRUM	0	0
Misc	New Fencing installed at SWMU 94	LS	0	0
TOTAL				**$34,763.78**

SWMU 39 RISK EVALUATION

Site Conceptual Exposure Model

There are three potentially unique mechanisms, or exposure pathways, by which an individual or population would come in contact with a chemical(s) of concern at SWMU 39: direct contact with soil, inhalation of airborne emissions from soil, and domestic use of groundwater on the Base or at the Base boundary. The persons, structures, utilities, surface waters, and water supply wells that are or may be adversely affected by a release at SWMU 39 are the potential receptors. The potential receptors include Base workers (e.g., military and Base personnel, Base contractors, construction workers, Base residents and Base visitors), and residential receptors at the Base boundary downgradient of the SWMU who may use the groundwater.

Comparison of Concentrations in Soil to Risk Based Screening Levels (RBSLs)

The ***EPA Region 6 Human Health Media-Specific Screening Levels,*** dated October 30, 1996, a look-up table, was used to determine whether site conditions satisfy the criteria for recommendation of regulatory closure or warrant a more site-specific evaluation. Maximum detected soil concentrations of volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs) and metals were compared to EPA Region VI risk-based screening levels (RBSLs) for residential soil to evaluate whether a significant release (i.e., capable of posing a risk to human health) has occurred at SWMU 39. EPA Region VI RBSLs were used for the comparison because they are a comprehensive and up-to-date list of RBSLs derived using accepted risk assessment methodology. As noted, Table 4.1-25 shows a summary of VOCs,SVOCs and metals detected in soil samples collected at SWMU 39. Table 4.1-27 delineates the maximum concentrations of metals detected at SWMU 39.

Di-n-butylphthalate was detected in Sample No. 7 at a depth of 9 feet bgs, and a concentration of 27 mg/Kg. Dibutylphthalate, an identical compound, has a Region VI listing of 6500 mg/kg for residential soils and is considered non-carcinogenic. Di-n-butylphthalate was also found in the laboratory method blank for this sample. After further data review, it is believed that di-n-butylphthalate is a laboratory contaminant associated with plasticizers commonly found in laboratory equipment. Nine of the 19 SWMUs analyzed during this corrective measure showed di-n-butylphthalate contamination in the method 8270 blank analysis.

Table 4.1-27

SWMU 39 Maximum Soil Sample Concentrations of Metals						
Sample No.	**Total Metals mg/Kg**		**TCLP Metals mg/L**	**Background Conc. Region VI / Cannon AFB[1] mg/Kg**		**Region VI Residential RBSL mg/Kg**
8	Barium	99.6	1.2	430	805	5300 N
8	Chromium	11.2	<0.02	38	13.3	31 C
	Nickel	8.9	NT	16	11.4	1500 N
	Lead	15.4	<0.05	10-18	7.1	400 N

N - noncarcinogenic
C - carcinogenic
NT - not tested

[1]CAFB Background Investigation, 1997

Among the metals detected, none exceed their respective Region VI RBSLs. The site is paved and located in an industrial portion of the base. It can be reasonably asserted, therefore, that no chemicals were detected at concentrations which are likely to pose a potentially significant human health risk based on any future land use scenario for SWMU 39.

Evaluation of the Groundwater Pathway

The depth to groundwater is approximately 240 feet at Cannon AFB (Woodward Clyde, 1992). Additionally site lithology in the vadose zone, including clays and Caliche (calcium carbonate) layers, as well as the asphalt paving over the site, would tend to impede infiltration and dissolved-phase and pure-phase contaminant transport. Organics are much more likely to be transported by dissolved-phase and pure-phase mechanisms than are inorganics. Due to these considerations, unsaturated zone transport was assumed not to be a significant transport mechanism, therefore, the potential risks and hazards associated with groundwater use and ingestion were not considered as a complete in-direct exposure pathway.

Risk Conclusion

The results of the soil investigation following the removal of the oil/water separator at SWMU 39 indicate that no chemical release that poses an unacceptable human health risk for any potential exposure pathway has occurred at this SWMU and, therefore, no further evaluation of this SWMU is warranted.

4.2 APPENDIX III SWMUs

4.2.1 SWMU 46

UNIT DESCRIPTION

This OWS was located adjacent to the southwest corner of building 196. The unit was a three-compartment underground concrete box measuring 7-feet in length, 9-feet in width and 8.5-feet in depth. The walls of the unit were 6-inches thick and contained steel reinforcement. The unit functioned as an oil/water separator which received effluent from drains in hangar building 196. The unit was active from 1969 until its partial removal in 1996. The unit was surrounded on all sides by asphalt paving. An 80-foot light pole was located within 15 inches of the northwest wall of the OWS.

After partial removal of the unit, a brass cap was placed at the westernmost corner to mark its former location as shown in Figure 4.2-1. The point was surveyed by Lydick Engineers at New Mexico State Plane Coordinates: North 1236765.61 and East 806669.40

UNIT REMOVAL

On September 18, 1996, the contents of the unit were removed by a vacuum pump truck and the inside of the unit was cleaned with a high pressure washer. Field personnel were dressed in level C protection for the cleaning operation. Due to the 12-foot diameter light pole foundation adjacent to the unit, the design team decided that the OWS would not be removed in its entirety. Instead, two feet of soil were excavated around the side walls of the unit and only the top three feet of the OWS were removed. The breathing zone was monitored at a peak level of 0.7 units with the PID, <2% LEL and oxygen at 21% with the CGI.

On September 19, 1996, two six-inch-diameter holes were punched through the bottom of the unit to provide access to the soils beneath the unit for sampling. The inlet and outlet pipes were disconnected and temporarily capped. The soil near the inlet pipe was not stained and had no odor. There was no evidence of the unit leaking into the surrounding soil. The soil surrounding the unit was excavated and stockpiled separately, as was the concrete that was removed, on a designated part of the abandoned runway. The breathing zone was monitored at a peak level of 0.0 units with the PID, <2% LEL and oxygen at 21% with the CGI.

The inlet and outlet pipes were reconnected using 6-inch Schedule 40 PVC pipe. The excavation was filled with clean backfill and compacted to grade. The backfill soils were obtained off-base and were analyzed in the laboratory for TCLP metals. Results of this analyses indicated only a low level of barium (1.3 mg/L).

UNIT CONTENTS

Approximately 800 gallons of liquid and 75 gallons of sludge were removed from the unit. The sludge and the liquids were sampled and sent for laboratory analysis. Laboratory analysis results for this material is reproduced in Appendix I. Results show that this material contained low levels

of barium, 2.1mg/L in the sediments and 0.3 mg/L in the liquids. and 0.058 mg/L of chromium in the sediments. This material was not a RCRA hazardous waste nor a DOT hazardous material. This material was placed in clean 55-gallon drums and disposed of off-base by Envirosolve Southwest, Inc. in Tulsa, Ok. The disposal documentation for this material is reproduced in Appendix II.

SOIL SAMPLING

Soil samples (Nos. 1 through 4 as shown in Fig. 4.2-1) were taken from each of the four vertical sides of the excavation at a depth of four feet below ground surface (bgs), and two samples (Nos. 5 and 6) were collected from the bottom of the excavation at a depth of 10 feet bgs (two feet below the OWS), for on-site field analysis. After field analysis of these samples using immunoassay method 4030 indicated that the Total Petroleum Hydrocarbon (TPH) content for each sample was below 100 ppm and BTEX content was below 50 ppm, a confirmatory sample (No. 7) was taken from the bottom of the excavation, below the oil containment, at a depth of 10 feet bgs (two feet below the OWS), and sent for laboratory analysis.

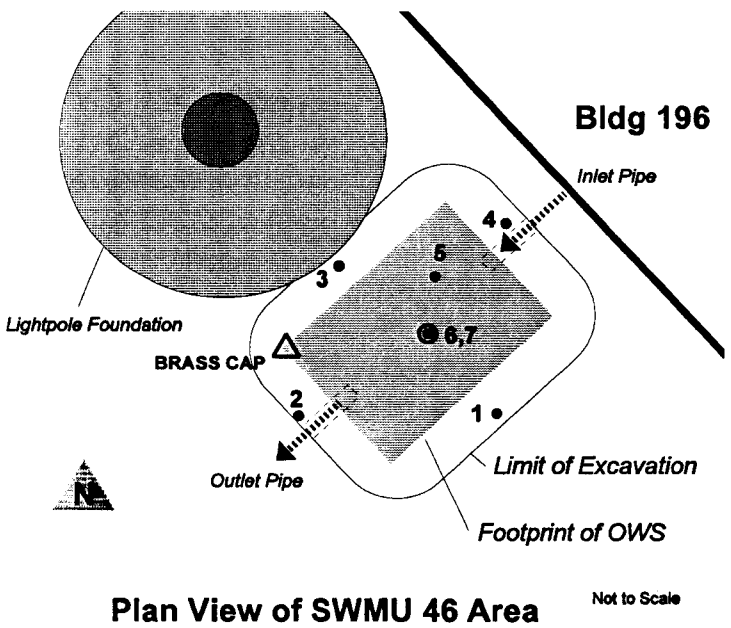

Figure 4.2-1. SWMU 46 Sample Locations

Duplicates of sample Nos. 4 and 6 were submitted for laboratory analysis and confirmed the field analysis of BTEX and TPH. Field screening results are reproduced in Appendix III.

Soils removed from the excavation were observed to contain no petroleum odors and no visual staining. Stockpiled soils were field screened and samples were also submitted for laboratory analysis.

TCLP results for sample No. 7, taken two feet below the oil containment compartment of the OWS, indicated 1.5 mg/L of Barium. TCLP results for excavated soils indicate only a trace amount of Barium (1.4mg/L), an element which is native in these soils and appears at the same level in the off-base backfill soils used to fill the excavations in this corrective measure. Excavated soils were subsequently removed from the staging area and used as backfill at the SWMU 112 leach field excavation.

A summary of soil sample results is shown in Table 4.2-1. Copies of all analysis results are provided in Appendix IV. All samples for SWMU 94 were labeled for identification in the following manner:

CA(SWMU #)/(Sample #)-YY-MMDD-(24-hr time). For example, the SWMU 46 sample No. 7 in this text is identified by the laboratory as CA046/7-97-0314-1136.

Table 4.2-1.

SUMMARY OF SWMU 46 SOIL SAMPLES RESULTS

No	Depth (ft)	Location	PID units	4030 TPH ppm	4030 BTEX ppm	SWA846 8020A BTEX mg/Kg	SWA846 M8015 DRO mg/Kg	SWA846 8260 mg/Kg	SWA846 8270B SOX mg/Kg	TCLP 8 RCRA Metals mg/L
1	4	OWS	ND	<15	<50	NT	NT	NT	NT	NT
2	4	OWS	ND	<15	<10	NT	NT	NT	NT	NT
3	4	OWS	0.1	<100	<10	NT	NT	NT	NT	NT
4	4	OWS	ND	<100	<50	ND	ND	NT	NT	NT
5	10	OWS	ND	<15	<50	NT	NT	NT	NT	NT
6	10	OWS	ND	<100	<50	ND	NT	NT	NT	NT
7	10	OWS	NT	NT	NT	NT	ND	ND	ND	Ba
8	N/A	OWS	ND	<15	<50	NT	NT	NT	NT	Ba

ND indicates non-detect
NT indicates not tested

UNIT DISPOSAL

The concrete debris from this unit was stockpiled on the abandoned runway site until samples were taken. The concrete from this unit was stockpiled on the abandoned runway site until samples were taken from the botton inside wall of the unit. This sample was mixed with ten other SWMU unit concrete samples (Nos. 1, 7, 11, 39, 38, 47, 33b, 70, 92 and 112) to form a composite sample for laboratory analysis. The concrete sample was analyzed using TCLP methods for metals, pesticides, volatiles and semivolatiles. The only target analytes found in this sample were low levels of barium (1.2 mg/L) and benzene (0.002 mg/L). The concrete from this unit was disposed of in the City of Clovis Public Landfill in Clovis, New Mexico on December 13, 1996.

PROJECT COSTS

The total cost for SWMU 46 removal and restoration were $19,891.40 and are summarized in Table 4.2-2.

Table 4.2-2

SWMU 46 CONTRACT QUANTITIES AND COSTS				
Contract Bid Item No.	DESCRIPTION	$/UNIT	QUANTITY	COST($)
1	Mobilization/Demobilization	16.257/MI	0	0
2	Travel Cost pertaining to construction contract	1957.8/EA	0	0
15	Sawcut concrete	12.93/LF	0	0
16	Concrete removal and disposal	237.38/T	0.34	80.83
17	Concrete Replacement	154.82/CY	0	0
18	Sawcut Asphalt	1.5/LF	43 LF	64.50
19	Asphalt removal and disposal	28.88/T	1.38 T	39.85
20	Asphalt replacement	34.96/SY	20.77 SY	726.12
25	Waste Oils, Tank Contents, Pump, Transport, Dispose, Recycle and/or Treatment, Complete	5.09/GAL	0	0
26	Hazardous & Dangerous Substances, Tank Contents, Pump, Transport, Dispose and/or Treatment, Complete	56.76/GAL	0	0
27	Contaminated Water, Tank Contents, Pump, Transport, Recycle and/or Dispose, Complete	2.61/GAL	899.5 GAL	2,347.70
28	Non-Contaminated Water, Tank Contents, Pump, Transport, Recyclye and/or Dispose, Complete	0.86/GAL	0	0
29	Hazardous Soil, Including Excavation, Trans-portaion, Treatment, Disposal and Required Backfill Material, Complete	289.15/T	0	0
30	Highly Contaminated Soil, Including Excavation, Transportaion, Treatment, Disposal and Required Backfill Material, Complete	90.75/T	0	0
33	Soil Sampling & Analysis, Method 8015 Modified (TPH), Complete	189.3/EA	6	1,135.80
38	Soil Sampling & Analysis, Method 6010 (Total Metals), Complete	539.20/EA	2	1,078.40
40	Remove OWSs,USTs and associated piping, Install new OWSs, all per drawings 0 and C1 through C12	LS	1	8,678.00

SWMU 46 CONTRACT QUANTITIES AND COSTS				
Contract Bid Item No.	DESCRIPTION	$/UNIT	QUANTITY	COST($)
41	Removal and Disposal of Sludge from OWS	113.76/ GAL	5.5 GAL	625.68
42	Soil Sampling & Analysis, Total BTEX Rapid Assay or Equivalent (Immunoassay-BTEX), Complete	158.01/EA	7	1,106.07
43	Soil Sampling & Analysis, Draft Method 4030 (Immunoassay-TPH), Complete	158.01/EA	7	1,106.07
44	Soil Sampling & Analysis, Method 8260 (VOAs), Complete	375.08/EA	1	375.08
45	Soil Sampling & Analysis, Method 8270 (Semi-VOAs), Complete	619.36/EA	1	619.36
46	Soil Sampling & Analysis, Method 8020 (BTEX), Complete	155.28/EA	2	310.56
47	Case 780D Backhoe, Operator & Laborer, Complete	140.5/HR	0	0
48	Soil Sampling & Analysis, Method 1311 (TCLP), Total Analyte List Metals and SVOCs, Complete	798.69/EA	2	1,597.38
49	Remove & Dispose of Non-hazardous Sludge from OWS (Partial drums that cannont be filled from another unit shall be paid as full drum)	203.53/ 55-GAL DRUM	0	0
50	Remove & Dispose of Hazardous Sludge from OWS (Partial drums that cannont be filled from another unit shall be paid as full drum)	474.90/ 55-GAL DRUM	0	0
Misc	New Fencing installed at SWMU 94	LS	0	0
TOTAL				**$19,891.40**

SWMU 46 RISK EVALUATION

Site Conceptual Exposure Model

There are three potentially unique mechanisms, or exposure pathways, by which an individual or population would come in contact with a chemical(s) of concern at SWMU 46: direct contact with soil, inhalation of airborne emissions from soil, and domestic use of groundwater on the Base or at the Base boundary. The persons, structures, utilities, surface waters, and water supply wells that are or may be adversely affected by a release at SWMU 46 are the potential receptors. The potential receptors include Base workers (e.g., military and Base personnel, Base contractors, construction workers, Base residents and Base visitors), and residential receptors at the Base boundary downgradient of the SWMU who may use the groundwater.

Comparison of Concentrations in Soil to Risk Based Screening Levels (RBSLs)

The ***EPA Region 6 Human Health Media-Specific Screening Levels,*** dated October 30, 1996, a "look-up" table, was used to determine whether site conditions satisfy the criteria for recommendation of regulatory closure or warrant a more site-specific evaluation. Maximum detected soil concentrations of volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs) and metals were compared to EPA Region VI risk-based screening levels (RBSLs) for residential soil to evaluate whether a significant release (i.e., capable of posing a risk to human health) has occurred at SWMU 46. EPA Region VI RBSLs were used for the comparison because they are a comprehensive and up-to-date list of RBSLs derived using accepted risk assessment methodology. As noted, Table 4.2-1 shows a summary of VOCs, SVOCs and metals detected in soil samples collected at SWMU 46. Table 4.2-3 delineates the maximum concentrations of metals detected at SWMU 46.

Table 4.2-3

SWMU 46 Maximum Soil Sample Concentrations of Metals

Sample No.	Total Metals mg/Kg		TCLP Metals mg/L	Background Conc. Region VI / Cannon AFB[1] mg/Kg		Region VI Residential RBSL mg/Kg
7	Barium	163	1.4	430	805	5300 N
	Chromium	7.2	<0.02	38	13.3	31 C
	Nickel	7.1	NT	16	11.4	1500 N
	Lead	13.8	<0.05	10-18	7.1	400 N

N - noncarcinogenic
C - carcinogenic
NT - not tested

[1]CAFB Background Investigation, 1997

Among the metals analyzed, none exceeded their respective Region VI RBSLs. In addition, the site is paved and located in an industrial portion of the base. It can be reasonably asserted, therefore, that no chemicals were detected at concentrations which are likely to pose a potentially

significant human health risk based on any future land use scenario for SWMU 46.

Evaluation of the Groundwater Pathway

The depth to groundwater is approximately 240 feet at Cannon AFB (Woodward Clyde, 1992). Additionally site lithology in the vadose zone, including clays and Caliche (calcium carbonate) layers, as well as the asphalt paving over the site, would tend to impede infiltration and dissolved-phase and pure-phase contaminant transport. Organics are much more likely to be transported by dissolved-phase and pure-phase mechanisms than are inorganics. Due to these considerations, unsaturated zone transport was assumed not to be a significant transport mechanism, therefore, the potential risks and hazards associated with groundwater use and ingestion were not considered as a complete in-direct exposure pathway.

Risk Conclusion

The results of the soil investigation following the removal of the oil/water separator at SWMU 46 indicate that no chemical release that poses an unacceptable human health risk for any potential exposure pathway has occurred at this SWMU and, therefore, no further evaluation of this SWMU is warranted.

4.2.2 SWMU 47

UNIT DESCRIPTION

SWMU 47 is associated with Building 494, an Auto Hobby Shop/vehicle maintenance facility. SWMU 47 consisted of an oil/water separator (OWS) and a sandtrap. The OWS was located beneath the drive adjacent to the northeast wall of Building 494. The OWS was a steel unit which measured 2 feet by 3 feet in plan and 4 feet in depth. The OWS was located on the northwest side of Building 494 and received fluids and particulates wasted in the auto hobby shop. The sandtrap was located in a grassy area near the east corner of Building 494 and received wastes discharged into the floor drains from a wash and prep stall at the southeast side of the Auto Hobby Shop. The sandtrap was a cast-in-place, reinforced concrete vault measuring 4 feet by 5 feet in plan and 5.5 feet in depth. Both the OWS and the sandtrap discharged wastewater into the sanitary sewer line, SWMU 98 as shown in Figure 4.2-2. The units were active from 1982.

A brass cap was placed at the easternmost corner of where the OWS unit was located as shown in Figure 4.2-2. The point was surveyed by Lydeck Engineering at New Mexico State Plane Coordinates: North 1236765.61 and East 806669.40.

UNIT REMOVAL

The contents of the sandtrap were pumped and the unit was cleaned on November 22, 1996. On the same day, drains inside Building 494 were plugged with cement grout, soils from around the OWS were excavated to a distance of about 2 feet on all sides, inlet and outlet lines were disconnected, and the unit was removed to the staging area on the abandoned runway. Vapor venting lines which extended from the sandtrap to Building 494 were removed. The excavated material was not stained and did not smell of fuel or solvents. Excavated soils were taken to and stored on the abandoned runway. The excavationwas shored for safety. The breathing zone was monitored at a peak level of 0.0 units with the PID, <2% LEL and oxygen at 21% with the CGI.

The contents of the OWS were pumped and the unit was cleaned on November 25, 1996. On December 3, 1996, soils from around the OWS were excavated to a distance of about 2 feet on all sides, inlet and outlet lines were disconnected, and the unit was removed to the staging area on the abandoned runway. The excavated material was not stained or odiferous. The soils were taken to and stored on the abandoned runway. The excavation was shored for safety. The breathing zone was monitored at a peak level of 0.0 units with the PID, <2% LEL and oxygen at 21% with the CGI.

The OWS excavation was enlarged and prepared according to the manufacturer's recommendations to accommodate the new OWS. The new unit was placed in the excavation on the northwest side of Building 494 on December 10, 1996, and was reconnected to the existing piping with double-contained PVC piping. New vent lines were installed from the unit to the side of Building 494. On March 4, 1997, 1½-cubic yards of concrete were placed as a pad over the new OWS.

UNIT CONTENTS

Approximately 79 gallons of waste oils and 110 gallons of water were removed from the OWS. Approximatly 24 gallons of waste oils and 165 gallons of water were removed from the sandtrap. The contents were sampled and sent for laboratory analysis. Laboratory analysis results for this material is reproduced in Appendix I. Results show that this material contained constituents commonly found in petroleum-based fuels and solvents. This material was labeled as a New Mexico Special Waste, due to its high TPH content, 430,000 ppm, but was not a RCRA hazardous waste nor a DOT hazardous material. The liquids/sludges were placed in clean 55-gallon drums and disposed of off-base by Envirosolve Southwest, Inc. in Albuquerque, New Mexico. The disposal documentation for this material is reproduced in Appendix II.

SOIL SAMPLING

UNIT 47A(sandtrap). Soil samples (Nos. 1 through 4, as shown in Fig. 4.2-2) were taken from each of the vertical sidewalls of the sandtrap excavation at a depth of 7.5-feet below ground surface (bgs). Sample Nos. 5 and 6 were collected from the bottom of the excavation at a depth of 7.5 feet and within the footprint of the unit. Sample Nos. 1 through 6 were taken for the purposes of field sampling analysis using immunoassay method 4030. After field analysis of these samples indicated that the Total Petroleum Hydrocarbon (TPH) content for each sample was below 100 ppm and BTEX content was 50 ppm or less, a confirmatory sample (No. 7) was taken from the center of the bottom of the excavation at a depth of 7.5 feet bgs, and sent for laboratory analysis. Field screening results are reproduced in Appendix III.

A duplicate of sample Nos. 3 and 5 were submitted for laboratory analysis to correlate field results with laboratory results. Laboratory results for these samples confirmed that TPH and BTEX are not contaminants of concern at this SWMU.

Laboratory results for Sample No. 7, unit 47A, indicate no significant levels of organics or TCLP metals. Semivolatile contaminant di-n-butylphthalate at 22.0 mg/Kg, and metals, barium, cadmium and chromium at 0.6 mg/L, 0.010

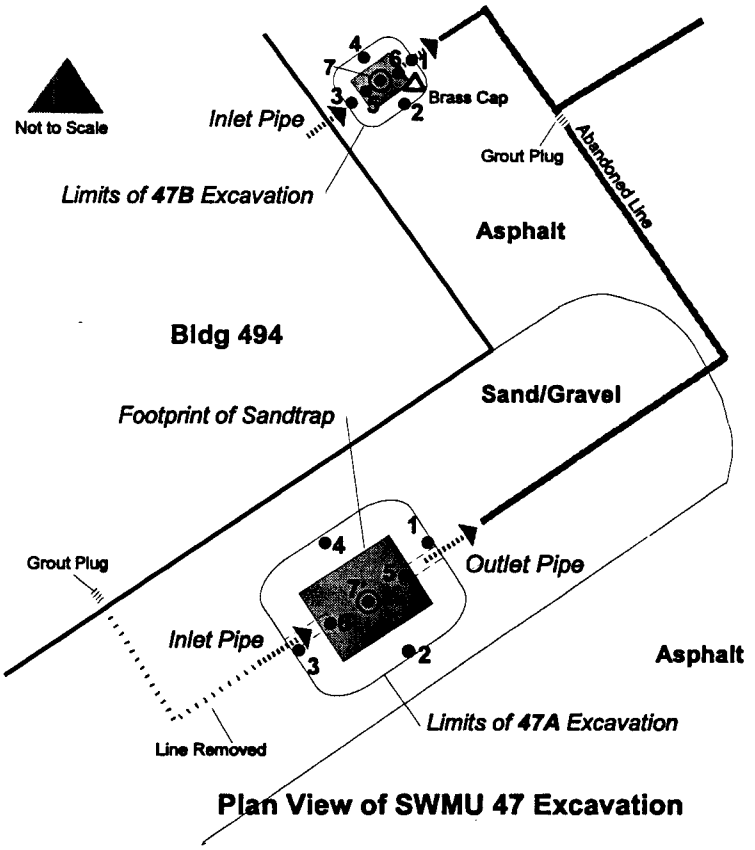

Figure 4.2-2. SWMU 47 Sample Locations

mg/L, and 0.02 mg/L, respectively, were found in No. 7. Di-n-butylphthalate was also found in the laboratory method blank for this group of samples, indicating that it is probably a lab contaminant. The levels of metals are all significantly below the maximum concentrations for the toxicity characteristic.

Sample No. 8, unit 47A, was taken as a composite from the excavated soils from around the sandtrap and submitted for BTEX, TPH and TCLP metals analysis. Sample No. 8 results indicated no organics or metals contamination, except barium at 1.0 mg/L and chromium at 0.03 mg/L. The levels of metals are both significantly below the maximum concentrations for the toxicity characteristic. These excavated soils were subsequently removed from the staging area and placed in the Cannon Air Force Base construction debris landfill.

UNIT 47B(OWS). Soil samples (Nos. 1 through 4, as shown in Fig. 4.2-2) were taken from each of the vertical sidewalls of the OWS excavation at a depth of 6-feet below ground surface (bgs). Sample Nos. 5 and 6 were collected from the bottom of the excavation at a depth of 6 feet and within the footprint of the unit. Sample Nos. 1 through 6 were taken for the purposes of field sampling analysis using immunoassay method 4030. After field analysis of these samples indicated that the Total Petroleum Hydrocarbon (TPH) content for each sample was below 100 ppm and BTEX content was 50 ppm or less, a confirmatory sample (No. 7) and a quality control sample (QC) were taken from the center of the bottom of the excavation at a depth of 6 feet bgs, and sent for laboratory analysis.

A duplicate of sample Nos. 1 and 5 were submitted for laboratory analysis to correlate field results with laboratory results. Laboratory results for these samples confirmed field results that TPH and BTEX are not contaminants of concern at this SWMU.

Laboratory results for Sample No. 7, unit 47B indicate no significant levels of organics or TCLP metals. Metals, barium and selenium at 1.6 mg/L, and 0.06 mg/L, respectively, were found in No. 7. The levels of both metals are significantly below the maximum concentrations for the toxicity characteristic.

Laboratory results for Sample No. 7-QC, unit 47B, indicate no significant levels of organics or TCLP metals. Semivolatile contaminant di-n-butylphthalate at 12.0 mg/Kg, and metals, barium and selenium at 1.4 mg/L and 0.05 mg/L, respectively, were found in No. 7-QC. Di-n-butylphthalate was also found in the laboratory method blank for this group of samples, indicating that it is probably a lab contaminant. The levels of both metals are significantly below the maximum concentrations for the toxicity characteristic.

Sample No. 8, unit 47B, was taken as a composite from the excavated soils from around the sandtrap and submitted for BTEX and TCLP metals analysis. Sample No. 8 results indicated no organics or metals contamination, except barium at 1.2 mg/L. These excavated soils were subsequently removed from the staging area and placed in the Base landfill.

A summary of soil sample results is shown in Table 4.2-4. Copies of all analysis results are provided in Appendix IV. All samples for SWMU 47 were labeled for identification in the following manner: CA(SWMU #)/(Sample #)-YY-MMDD-(24-hr time). For example, the SWMU 47 sample No. 7 in this text is identified by the laboratory as CA047/7-97-0314-1136.

Table 4.2-4.

SUMMARY OF SWMU 47 SOIL SAMPLE RESULTS

No.	Depth (ft)	Location	PID (units)	4030 TPH ppm	4030 BTEX ppm	SWA846 8020A BTEX mg/Kg	SWA846 M8015 DRO mg/Kg	SWA846 8260 mg/Kg	SWA846 8270B SOX mg/Kg	TCLP Metals 6011 mg/Kg
A/1	7.5	sandtrap	0.0	<20	<50	NT	NT	NT	NT	NT
A/2	7.5	sandtrap	0.0	<20	<50	NT	NT	NT	NT	NT
A/3	7.5	sandtrap	0.2	<20	<50	ND	ND	NT	NT	NT
A/4	7.5	sandtrap	0.1	<20	<50	NT	NT	NT	NT	NT
A/5	7.5	sandtrap	0.3	<100	<50	ND	0.0266	NT	NT	NT
A/6	7.5	sandtrap	0.1	<20	<50	NT	NT	NT	NT	NT
A/7	7.5	sandtrap	NT	NT	NT	NT	ND	ND	ND[1]	Ba, Cd, Cr
A/8	n/a	excavated material	NT	NT	NT	ND	ND	NT	NT	Ba, Cr
B/1	6	OWS	0.0	<20	<10	ND	ND	NT	NT	NT
B/2	6	OWS	0.0	<20	<10	NT	NT	NT	NT	NT
B/3	6	OWS	0.0	<20	<10	NT	NT	NT	NT	NT
B/4	6	OWS	0.0	<20	<10	NT	NT	NT	NT	NT
B/5	6	OWS	0.0	<20	<10	ND	ND	NT	NT	NT
B/6	6	OWS	0.0	<20	<10	NT	NT	NT	NT	NT
B/7	6	OWS	NT	NT	NT	NT	ND	ND	ND	Ba, Se
B/7 QC	6	OWS	NT	NT	NT	NT	ND	ND	ND[2]	Ba, Se
B/8	n/a	excavated material	NT	NT	NT	ND	NT	NT	NT	Ba

[1] Only contaminant identified: Di-n-butylphthalate at 22.0 mg/Kg, which was also found in the method blank.
[2] Only contaminant identified: Di-n-butylphthalate at 12.0 mg/Kg, which was also found in the method blank.
ND indicates non-detect, or below detection limit.

NT indicates not tested.

UNIT DISPOSAL

The concrete from the sandtrap was disposed of in the Clovis Municipal Landfill on December 13, 1996. The steel OWS unit was delivered to Anderson Recycling Center, 511 South Prince Street, Clovis, New Mexico, on December 23, 1996.

PROJECT COSTS

The total cost for SWMU 47 removal and restoration were $74,681.62 and are summarized in Table 4.2-5.

Table 4.2-5

SWMU 47 CONTRACT QUANTITIES AND COSTS				
Contract Bid Item No.	DESCRIPTION	$/UNIT	QUANTITY	COST($)
1	Mobilization/Demobilization	16.257/MI	0	0
2	Travel Cost pertaining to construction contract	1957.8/EA	0	0
15	Sawcut concrete	12.93/LF	18 LF	232.74
16	Concrete removal and disposal	237.38/T	1.15 T	272.99
17	Concrete Replacement	154.82/CY	2.25 CY	348.34
18	Sawcut Asphalt	1.5/LF	56 LF	84.00
19	Asphalt removal and disposal	28.88/T	3.04 T	87.79
20	Asphalt replacement	34.96/SY	0	0
25	Waste Oils, Tank Contents, Pump, Transport, Dispose, Recycle and/or Treatment, Complete	5.09/GAL	79 GAL	402.11
26	Hazardous & Dangerous Substances, Tank Contents, Pump, Transport, Dispose and/or Treatment, Complete	56.76/GAL	0	0
27	Contaminated Water, Tank Contents, Pump, Transport, Recycle and/or Dispose, Complete	2.61/GAL	275 GAL	717.75
28	Non-Contaminated Water, Tank Contents, Pump, Transport, Recyclye and/or Dispose, Complete	0.86/GAL	0	0
29	Hazardous Soil, Including Excavation, Transportaion, Treatment, Disposal and Required Backfill Material, Complete	289.15/T	0	0

SWMU 47 CONTRACT QUANTITIES AND COSTS				
Contract Bid Item No.	DESCRIPTION	$/UNIT	QUANTITY	COST($)
30	Highly Contaminated Soil, Including Excavation, Transportaion, Treatment, Disposal and Required Backfill Material, Complete	90.75/T	0	0
33	Soil Sampling & Analysis, Method 8015 Modified (TPH), Complete	189.3/EA	9	1,703.70
38	Soil Sampling & Analysis, Method 6010 (Total Metals), Complete	539.20/EA	3	1,617.60
40	Remove OWSs,USTs and associated piping, Install new OWSs, all per drawings 0 and C1 through C12	LS	1	54,803
41	Removal and Disposal of Sludge from OWS	113.76/ GAL	23.83 GAL	2,710.90
42	Soil Sampling & Analysis, Total BTEX Rapid Assay or Equivalent (Immunoassay-BTEX), Complete	158.01/EA	12	1,896.12
43	Soil Sampling & Analysis, Draft Method 4030 (Immunoassay-TPH), Complete	158.01/EA	12	1,896.12
44	Soil Sampling & Analysis, Method 8260 (VOAs), Complete	375.08/EA	3	1,125.24
45	Soil Sampling & Analysis, Method 8270 (Semi-VOAs), Complete	619.36/EA	3	1,858.08
46	Soil Sampling & Analysis, Method 8020 (BTEX), Complete	155.28/EA	6	931.68
47	Case 780D Backhoe, Operator & Laborer, Complete	140.5/HR	0	0
48	Soil Sampling & Analysis, Method 1311 (TCLP), Total Analyte List Metals and SVOCs, Complete	798.69/EA	5	3,993.45
49	Remove & Dispose of Non-hazardous Sludge from OWS (Partial drums that cannont be filled from another unit shall be paid as full drum)	203.53/ 55-GAL DRUM	0	0

SWMU 47 CONTRACT QUANTITIES AND COSTS				
Contract Bid Item No.	DESCRIPTION	$/UNIT	QUANTITY	COST($)
50	Remove & Dispose of Hazardous Sludge from OWS (Partial drums that cannont be filled from another unit shall be paid as full drum)	474.90/ 55-GAL DRUM	0	0
Misc	New Fencing installed at SWMU 94	LS	0	0
TOTAL				**$74,681.62**

SWMU 47 RISK EVALUATION

Site Conceptual Exposure Model

There are three potentially unique mechanisms, or exposure pathways, by which an individual or population would come in contact with a chemical(s) of concern at SWMU 47: direct contact with soil, inhalation of airborne emissions from soil, and domestic use of groundwater on the Base or at the Base boundary. The persons, structures, utilities, surface waters, and water supply wells that are or may be adversely affected by a release at SWMU 47 are the potential receptors. The potential receptors include Base workers (e.g., military and Base personnel, Base contractors, construction workers, Base residents and Base visitors), and residential receptors at the Base boundary downgradient of the SWMU who may use the groundwater.

Comparison of Concentrations in Soil to Risk Based Screening Levels (RBSLs)

The ***EPA Region 6 Human Health Media-Specific Screening Levels,*** dated October 30, 1996, a look-up table, was used to determine whether site conditions satisfy the criteria for recommendation of regulatory closure or warrant a more site-specific evaluation. Maximum detected soil concentrations of volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs) and metals were compared to EPA Region VI risk-based screening levels (RBSLs) for residential soil to evaluate whether a significant release (i.e., capable of posing a risk to human health) has occurred at SWMU 47. EPA Region VI RBSLs were used for the comparison because they are a comprehensive and up-to-date list of RBSLs derived using accepted risk assessment methodology. As noted, Table 4.2-3 shows a summary of VOCs, SVOCs and metals detected in soil samples collected at SWMU 47. Table 4.2-5 delineates the maximum concentrations of metals detected at SWMU 47.

Di-n-butylphthalate was detected in Sample No. A/7 from the sandtrap, at a depth of 7.5 feet bgs, and a concentration of 22 mg/kg. Dibutylphthalate, an identical compound, has a Region VI non-carcinogenic listing of 6500 mg/kg for residential soils. Di-n-butylphthalate was also found in the laboratory method blank for this sample. After further data review, it is believed that di-n-butylphthalate is a laboratory contaminant associated with plasticizers commonly found in

laboratory equipment. Nine of the 19 SWMUs analyzed during this corrective measure showed di-n-butylphthalate contamination in the method 8270 blank analysis.

Table 4.2-5.

SWMU 47 Maximum Soil Sample Concentrations of Metals						
Sample No.	Total Metals mg/Kg		TCLP Metals mg/L	Background Conc. Region VI / Cannon AFB[1] mg/Kg		Region VI Residential RBSL mg/Kg
B/7QC	Silver	2.9	<0.040	0.01 - 5	2.65	380 N
	Arsenic	1.63	<0.40	1.1 - 16.7	3.6	0.32 C/2.2 N
	Cadmium	0.31	0.01	0.01 - 1.0	1.3	38N
B/7	Barium	367	1.6	430	805	5300 N
	Lead Selenium	2.2 <2.5	<0.050 0.06	10 - 18 0.2	7.1 1.1	400 N 380 N
A/7	Chromium	8.8	0.02	38	13.3	31 C
	Nickel	6.3	NT	16	11.4	1500 N

N - noncarcinogenic
C - carcinogenic
NT - not tested

[1]CAFB Background Study, 1997

Selenium was detected in the TCLP anlyses of Sample Nos. B/7 from the OWS site, at a concentration of 0.06 mg/L. The total metals analysis of these samples detected no selenium at or above the detection limit of 2.5 m/Kg. Using the approximation of the 20Xs rule, the total selenium concentration is approximated at 1.2 mg/kg, which is above the Region VI background value, but is well within the Region VI RBSL level of 380 mg/Kg.

Arsenic was detected in Sample No. B/7QC from the OWS site at a depth of 6 feet and at a concentration of 1.63 mg/kg. This concentration lies well within the Region VI background range, however, it exceeds the Region VI RBSL of 0.32 mg/kg for carcinogenic arsenic and the RBSL of 2.2 mg/Kg for non-carcinogenic arsenic. Since naturally occurring concentrations of arsenic in soils in this region are known to be relatively high and greatly exceed the carcinogenic RBSL of 0.32 mg/kg, it is impractical to impose this RBSL at this site. As an alternative, it is proposed to use ***The Background Investigation, Cannon Air Force Base, New Mexico,*** dated September 1997, value for arsenic in sub-surface soils of 3.6 mg/kg.

Among the metal analytes tested, no other exceeds the respective Region VI RBSL. In addition, this site is paved with asphalt and located in an industrial portion of the base. It can be reasonably asserted, therefore, that no chemicals were detected at concentrations which are likely to pose a potentially significant human health risk based on any current or future land use scenario for SWMU 47.

Evaluation of the Groundwater Pathway

The depth to groundwater is approximately 240 feet at Cannon AFB (Woodward Clyde, 1992). Additionally site lithology in the vadose zone, including clays and Caliche (calcium carbonate) layers, as well as the asphalt paving over the site, would tend to impede infiltration and dissolved-phase and pure-phase contaminant transport. Organics are much more likely to be transported by dissolved-phase and pure-phase mechanisms than are inorganics. Due to these considerations, unsaturated zone transport was assumed not to be a significant transport mechanism, therefore, the potential risks and hazards associated with groundwater use and ingestion were not considered as a complete in-direct exposure pathway.

Risk Conclusion

The results of the soil investigation following the removal of the oil/water separator at SWMU 47a indicate that no chemical release that poses an unacceptable human health risk for any potential exposure pathway has occurred at this SWMU and, therefore, no further evaluation of this SWMU is warranted.

4.2.3 SWMU 51

UNIT DESCRIPTION

SWMU 51 is associated with Building 375, a vehicle maintenance facility. SWMU 51 consisted of an oil/water separator (OWS) and an oil containment vault (OCV). The OCV measured 2 feet in width, 10 feet in length and 7 feet in depth. It is located beneath and integral with the floor of building 375, and a 10-foot portion of the northwest foundation wall of the building served as one wall of the unit. The OWS was a cast-in-place reinforced concrete unit which measured 5 feet square and 5.5 feet in depth. The OWS was located on the northwest side of Building 375 and received fluids and particulates wasted in the Building 375 floor drains. Oils skimmed from the OWS were discharged to the OCV through the building foundation wall, and wastewater was discharged to the sanitary sewer line, SWMU 98. The units were active from 1968 to February 19, 1997.

A brass cap was placed at the northernmost corner of where the OWS unit was located as shown in Figure 4.2-3. The point was surveyed by Lydeck Engineering at New Mexico State Plane Coordinates: North 1237230.30 and East 805811.25.

UNIT REMOVAL

The contents of the OWS were pumped and the units were cleaned on February 18, 1997. Soils from around the OWS were excavated and the unit was removed on February 19, 1997, to the staging area on the abandoned runway. This excavation was larger than the ususal 2-feet adjacent to the sides of the untit in order to accomodate the new OWS to be placed in it. Soils adjacent to the outlet pipe to the OCV were observed to be stained, and to be emitting strong fuel odors. The rest of the excavated material was not stained or odiferous. The cleaner soils were segregated from the stained soils and both were taken to and stored on the abandoned runway. The excavation was shored for safety on three sides, the fourth side was the wall of building 375. Vapor venting lines extending from the OWS that to Building 375 were removed. The breathing zone was monitored at a peak level of 0.9 units with the PID, <2% LEL and oxygen at 21% with the CGI.

A confined space entry permit was prepared and reviewed by all the contractor's employees before entering the OCV. On February 21, 1997, the OCV was pumped and cleaned. The contents filled one 55-gallon steel drum. The breathing zone was monitored at a peak level of 1.3 units with the PID, <2% LEL and oxygen at 21% with the CGI.

On February 24, 1997, the contractor began drilling through the concrete side walls of the unit in order to expose those soils for sampling. The breathing zone was monitored at a peak level of 2.4 units with the PID, <2% LEL and oxygen at 21% with the CGI.

On February 26, 1997, the contractor drilled holes through the bottom of the OCV in order to expose those soils for sampling. The vault was then filled with clean sand and capped with concrete to replace the floor over the vault. The breathing zone was monitored at a peak level of 1.9 units

with the PID, <2% LEL and oxygen at 21% with the CGI.

On February 27, 1997, a new McTighe Industries, Inc., model POWS-350-DW-EL Parallel Corrugated Plate Oil-Water Separator of UL-1746 Listed Jacketed Composite Secondary Containment Construction, was placed in the same location as the previous unit. Reconnection from the sewer to the new OWS was done using double contained inlet and outlet pipe and fittings. Once the unit passed a pressure test, the excavation was filled with clean backfill and compacted to grade, according to the manufacturer's recommendations. New vent lines were installed from the unit to the side of Building 375. On March 4, 1997, 1½-cubic yards of concrete were placed as a pad over the new OWS.

UNIT CONTENTS

Approximatly 55 gallons of liquids/sludges were removed from the OWS. Approximatly 400 gallons of liquids/sludges were removed from the OCV. The contents were sampled and sent for laboratory analysis. Laboratory analysis results for this material is reproduced in Appendix I. Results show that this material contained constituents commonly found in petroleum-based fuels and solvents. This material was not manifested off-base as a RCRA hazardous waste nor as a DOT hazardous material, but was labeled as a New Mexico Special Waste, due to its high TPH content of 218,000 ppm. The liquids/sludges were placed in clean 55-gallon drums and disposed of off-base by Envirosolve Southwest, Inc. in Albuquerque, New Mexico. The disposal documentation for this material is reproduced in Appendix II.

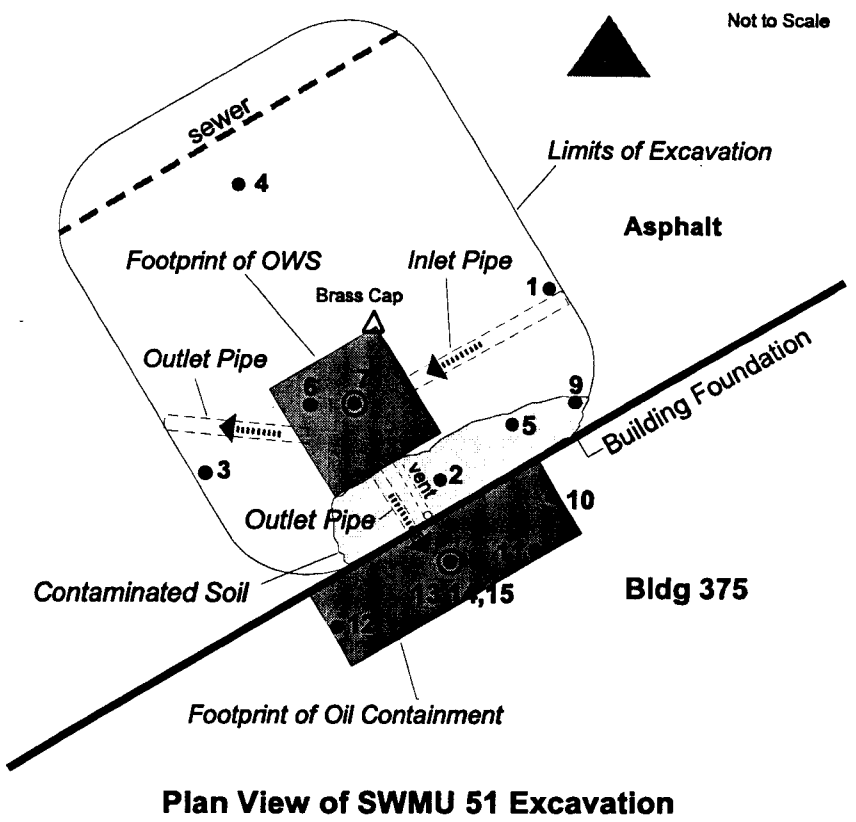

Figure 4.2-3. SWMU 51 Sample Locations

SOIL SAMPLING

Soil samples (Nos. 2 and 3 as shown in Fig. 4.2-3) were taken from the bottom of the southeast and southwest vertical sidewalls, respectively, of the OWS excavation at a depth of 9-feet below ground surface (bgs). Sample No. 1 was collected from the bottom of the excavation at a depth of 10 feet,

along the northeast side of the excavation. Sample No. 4 was taken at the bottom of the excavation at a depth of 10 feet in an area northwest of the OWS. Sample No. 5 was taken in an area of stained soil along the southeast side of the excavation. Sample No. 6 was taken within the footprint of the unit, at a depth of 10 feet bgs. Sample Nos. 1 through 6 were taken for field sampling analysis. After field analysis using immunoassay method 4030 indicated that the Total Petroleum Hydrocarbon (TPH) content for each sample, except No. 5, was below 20 ppm and BTEX content was 10 ppm or less, a confirmatory sample (No. 7) was taken from the center of the bottom of the excavation at a depth of 10 feet bgs, and sent for laboratory analysis.

A duplicate of sample Nos. 1, 2, 5 and 6 were submitted for laboratory analysis to correlate field results with laboratory results. These duplicates confirm the field screening results. Field screening results are reproduced in Appendix III.

Laboratory results for Sample No. 7 indicate no significant levels of organics or TCLP metals. Semivolatile contaminant bis(2-Ethylhexyl)phthalate at 4.0 mg/Kg, and metals, barium and selenium at 2.0 mg/L and 0.06 mg/L, respectively, were found in No. 7.

Sample No. 8 was taken as a composite from the excavated soils from the OWS and submitted for BTEX, TPH and TCLP metals analysis. Sample No. 8 results indicate no organics or metals contamination with exceed statutory limits. Barium at 1.7 mg/L and selenium at 0.07 mg/L were reported for this sample. Theese excavated soils were subsequently removed from the staging area and placed in the Cannon Air Force Base construction debris landfill.

Stained soils along the southeast wall of the OWS excavation were removed and segregated from non-stained soils. Soil sample No. 9 was taken for field screening analysis, from the OWS excavation after the stained soils were removed. The PID showed some residual organics, but BTEX and TPH were within the acceptable range of <20 ppm BTEX and <10 TPH.

Soil sample Nos. 10 through 14 were taken from through holes punched into the sides and bottom of the OCV excavation. Sample Nos. 10 through 13 were taken for on-site field analysis. After field analysis of these samples using immunoassay method 4030 indicated that the Total Petroleum Hydrocarbon (TPH) content for each sample was below 20 ppm and BTEX content was 10 ppm or less, a confirmatory sample (No. 14) and its QA duplicate (No.15) were taken through the center of the bottom of the OCV at a depth of 8 feet bgs, and sent for laboratory analysis. A duplicate of sample No. 10 was submitted for laboratory analysis to correlate field results with laboratory results. The laboratory results confirmed the absence of significant levels of BTEX and TRPH as reported by the fieldscreening.

Laboratory results for Sample No. 14 indicate no significant levels of organics or TCLP metals. Results indicated the presence of no contaminants, except barium at 0.8 mg/L. Laboratory results for the QA sample No. 15, also indicated no significant levels of organic compounds or toxic metals. Low levels of naphthalene at 0.0154 mg/Kg and 1,2,4-trimethylbenzene at 0.0033 mg/Kg were reported for No. 15.

A summary of soil sample results is shown in Table 4.2-7. Copies of all analysis results are provided in Appendix IV. All samples for SWMU 51 were labeled for identification in the following manner: CA(SWMU #)/(Sample #)-YY-MMDD-(24-hr time). For example, the SWMU 51 sample No. 7 in this text is identified by the laboratory as CA051/7-97-0314-1136.

Table 4.2-7.

SUMMARY OF SWMU 51 SOIL SAMPLE RESULTS

No.	Depth (ft)	Location	PID (units)	4030 TPH ppm	4030 BTEX ppm	SWA846 8020A BTEX mg/Kg	SWA846 M8015 DRO mg/Kg	SWA846 8260 mg/Kg	SWA846 8270B SOX mg/Kg	TCLP Metals 6011 mg/Kg
1	10	OWS	0.4	ND	<10	ND	ND	NT	NT	NT
2	9	OWS	0.0	ND	ND	ND	ND	NT	NT	NT
3	9	OWS	0.0	ND	ND	NT	NT	NT	NT	NT
4	9	OWS	0.0	ND	ND	NT	NT	NT	NT	NT
5	5.5	OWS	127.0	>600	>300	ND	7200	NT	NT	NT
6	10	OWS	ND	<20	<10	ND	ND	NT	NT	NT
7	10	OWS	NT	NT	NT	NT	ND	ND	ND[1]	Ba, Se
8	n/a	excavated material	NT	NT	NT	ND	ND	NT	NT	Ba, Se
9	5.5	OWS	1.0	<20	<10	NT	NT	NT	NT	NT
10	6	OCV	0.1	<20	<10	ND	ND	NT	NT	NT
11	8	OCV	ND	<20	<10	NT	NT	NT	NT	NT
12	6	OCV	ND	<20	<10	NT	NT	NT	NT	NT
13	8	OCV	ND	<20	<10	NT	NT	NT	NT	NT
14	8	OCV	NT	NT	NT	NT	ND	ND	ND	Ba
15 QA	8	OCV	NT	NT	NT	NT	ND	ND[2]	ND	ND

[1] Only contaminant identified: bis(2-Ethylhexyl)phthalate at 4.0 mg/Kg.
[2] Only contaminants identified: naphthalene at .0154 mg/Kg and 1,2,4-trimethylbenzene at 0.0033 mg/Kg.
ND indicates non-detect, or below detection limit.
NT indicates not tested.

UNIT DISPOSAL

The concrete from this unit was stockpiled on the abandoned runway site until samples were taken from the botton inside wall of the unit. This sample was mixed with five other SWMU unit concrete samples (SWMUs 57, 9, 94, 32a, and 8) to form a composite sample for laboratory analysis. The concrete sample was analyzed using TCLP methods for metals, pesticides, volatiles and semivolatiles. Only low levels of barium (0.5 mg/L), 2-methylphenol/o-cresol (0.0068 mg/L) and ¾-methylphenol/m/p-cresol (0.0023 mg/L) were found in this sample. The concrete from this unit was disposed of in the City of Clovis Public Landfill in Clovis, New Mexico on April 16, 1997.

SOIL DISPOSAL

Stained soils from the OWS excavation were disposed of by Stevens Construction, Inc. to Gandy Marley, Inc. in Tatum, New Mexico, for landfarm treatment. Clean excavated soils were disposed of in the Cannon Air Force Base construction debris landfill.

PROJECT COSTS

The total cost for SWMU 51 removal and restoration were $95,872.20 and are summarized in Table 4.2-8.

Table 4.2-8

SWMU 51 CONTRACT QUANTITIES AND COSTS				
Contract Bid Item No.	DESCRIPTION	$/UNIT	QUANTITY	COST($)
1	Mobilization/Demobilization	16.257/MI	0	0
2	Travel Cost pertaining to construction contract	1957.8/EA	0	0
15	Sawcut concrete	12.93/LF	0	0
16	Concrete removal and disposal	237.38/T	0	0
17	Concrete Replacement	154.82/CY	1.5 CY	232.23
18	Sawcut Asphalt	1.5/LF	38 LF	57.00
19	Asphalt removal and disposal	28.88/T	3.53 T	101.95
20	Asphalt replacement	34.96/SY	0	0
25	Waste Oils, Tank Contents, Pump, Transport, Dispose, Recycle and/or Treatment, Complete	5.09/GAL	300 GAL	1,527.00
26	Hazardous & Dangerous Substances, Tank Contents, Pump, Transport, Dispose and/or Treatment, Complete	56.76/GAL	0	0

SWMU 51 CONTRACT QUANTITIES AND COSTS				
Contract Bid Item No.	DESCRIPTION	$/UNIT	QUANTITY	COST($)
27	Contaminated Water, Tank Contents, Pump, Transport, Recycle and/or Dispose, Complete	2.61/GAL	100 GAL	261.00
28	Non-Contaminated Water, Tank Contents, Pump, Transport, Recyclye and/or Dispose, Complete	0.86/GAL	0	0
29	Hazardous Soil, Including Excavation, Transportaion, Treatment, Disposal and Required Backfill Material, Complete	289.15/T	0	0
30	Highly Contaminated Soil, Including Excavation, Transportaion, Treatment, Disposal and Required Backfill Material, Complete	90.75/T	0	0
33	Soil Sampling & Analysis, Method 8015 Modified (TPH), Complete	189.3/EA	6	1,135.80
38	Soil Sampling & Analysis, Method 6010 (Total Metals), Complete	539.20/EA	2	1,078.40
40	Remove OWSs,USTs and associated piping, Install new OWSs, all per drawings 0 and C1 through C12	LS	1	82,512.00
41	Removal and Disposal of Sludge from OWS	113.76/ GAL	0	0
42	Soil Sampling & Analysis, Total BTEX Rapid Assay or Equivalent (Immunoassay-BTEX), Complete	158.01/EA	11	1,738.11
43	Soil Sampling & Analysis, Draft Method 4030 (Immunoassay-TPH), Complete	158.01/EA	11	1,738.11
44	Soil Sampling & Analysis, Method 8260 (VOAs), Complete	375.08/EA	2	750.16
45	Soil Sampling & Analysis, Method 8270 (Semi-VOAs), Complete	619.36/EA	2	1,238.72
46	Soil Sampling & Analysis, Method 8020 (BTEX), Complete	155.28/EA	4	621.12
47	Case 780D Backhoe, Operator & Laborer, Complete	140.5/HR	2 HR	281.00

SWMU 51 CONTRACT QUANTITIES AND COSTS				
Contract Bid Item No.	**DESCRIPTION**	**$/UNIT**	**QUANTITY**	**COST($)**
48	Soil Sampling & Analysis, Method 1311 (TCLP), Total Analyte List Metals and SVOCs, Complete	798.69/EA	3	2,396.07
49	Remove & Dispose of Non-hazardous Sludge from OWS (Partial drums that cannont be filled from another unit shall be paid as full drum)	203.53/ 55-GAL DRUM	1 55-GAL DRUM	203.53
50	Remove & Dispose of Hazardous Sludge from OWS (Partial drums that cannont be filled from another unit shall be paid as full drum)	474.90/ 55-GAL DRUM	0	0
Misc	New Fencing installed at SWMU 94	LS	0	0
TOTAL				**$95,872.20**

SWMU 51 RISK EVALUATION

Site Conceptual Exposure Model

There are three potentially unique mechanisms, or exposure pathways, by which an individual or population would come in contact with a chemical(s) of concern at SWMU 51: direct contact with soil, inhalation of airborne emissions from soil, and domestic use of groundwater on the Base or at the Base boundary. The persons, structures, utilities, surface waters, and water supply wells that are or may be adversely affected by a release at SWMU 51 are the potential receptors. The potential receptors include Base workers (e.g., military and Base personnel, Base contractors, construction workers, Base residents and Base visitors), and residential receptors at the Base boundary downgradient of the SWMU who may use the groundwater.

Comparison of Concentrations in Soil to Risk Based Screening Levels (RBSLs)

The ***EPA Region 6 Human Health Media-Specific Screening Levels,*** dated October 30, 1996, a look-up table, was used to determine whether site conditions satisfy the criteria for recommendation of regulatory closure or warrant a more site-specific evaluation. Maximum detected soil concentrations of volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs) and metals were compared to EPA Region VI risk-based screening levels (RBSLs) for residential soil to evaluate whether a significant release (i.e., capable of posing a risk to human health) has occurred at SWMU 51. EPA Region VI RBSLs were used for the comparison because they are a comprehensive and up-to-date list of RBSLs derived using accepted risk assessment methodology. As noted, Table 4.2-3 shows a summary of VOCs, SVOCs and metals detected in soil samples collected at SWMU 51. Table 4.2-9 delineates the maximum

concentrations of metals detected at SWMU 51.

Sample No.7, collected at a depth of 10 feet had non-detectable concentrations of organics, other than di-n-butylphthalate at a concentration of 4 mg/kg which was also found in the laboratory method blank and was determined to be a laboratory contaminant.

Naphthalene at a concentration of 0.0154 mg/kg and 1,2,4-trimethylbenzene at a concentration of 0.0033 mg/kg were detected in Sample No. 15, collected at a depth of 8 feet bgs. The Region VI RBSLs for these analytes are 800 mg/kg and 3900 mg/kg, respectively. The relatively low concentrations of naphthalene and 1,2,4-trimethylbenzene in this sample are well within the Region VI RBSLs.

Di-n-butylphthalate was detected in Sample No. 7 at a depth of 10 feet bgs, and a concentration of 4 mg/kg. Dibutylphthalate has a Region VI non-carcinogenic listing of 6500 mg/kg for residential soils. Di-n-butylphthalate was also found in the laboratory method blank for this sample. After further data review, it is believed that di-n-butylphthalate is a laboratory contaminant associated with plasticizers commonly found in laboratory equipment. Nine of the 19 SWMUs analyzed during this corrective measure showed di-n-butylphthalate contamination in the method 8270 blank analysis.

Table 4.2.9

SWMU 51 Maximum Soil Sample Concentrations of Metals

Sample No.	Total Metals mg/kg		TCLP Metals mg/L	Background Conc. Region VI / Cannon AFB[1] mg/kg		Region VI Residential RBSL mg/kg
15	Arsenic	3.5	<0.40	1.1 - 16.7	3.6	0.32 C
	Mercury	0.014	<0.0010	0.10	0.019	23 N
	Selenium	0.838	<1.00	0.2	1.1	380 N
14	Barium	1070	0.8	430	805	5300 N
	Chromium	26.3	<0.020	38	13.3	31 C
14	Nickel	14.4	NT	16	11.4	1500 N
7	Lead	7.6	<0.05	10-18	7.1	400 N

N - noncarcinogenic
C - carcinogenic
NT - not tested

[11]CAFB Background Study, 1997

Arsenic was detected in Sample No. at a depth of 7 feet and at a concentration of 3.5 /kg. This concentration lies well within the Region VI background range, however, it exceeds the Region

VI RBSL of 0.32 mg/kg for carcinogenic arsenic and the RBSL of 2.2 mg/Kg for non-carcinogenic arsenic. Since naturally occurring concentrations of arsenic in soils in this region are known to be relatively high and greatly exceed the carcinogenic RBSL of 0.32 mg/kg, it is impractical to impose this RBSL at this site. As an alternative, it is proposed to use ***The Background Investigation, Cannon Air Force Base, New Mexico,*** dated September 1997, value for arsenic in sub-surface soils of 3.6 mg/kg.

Total selenium was detected in Sample No. 15 at a concentration of 0.838 mg/kg, but not in its field duplicate, Sample No. 14. This value exceeds the Region VI background level of 0.2 mg/kg, however, it is well within the Region VI RBSL level of 380 mg/kg, or the more conservative level of 38 mg/kg which is used in the presence of other non-carcinogens.

Barium was detected in Sample No. 14 at depth of 8 feet and a concentration of 1070 mg/kg, a value that exceeds the Region VI background level of 430 mg/kg. Barium was detected at a level of 339 mg/kg in the field duplicate, Sample No. 15, and at a concentration of 295 mg/kg in Sample No. 7. The barium in Sample No. 14 does not exceed the Region VI RBSL of 5300 mg/kg, but does exceed the more conservative value of 530 mg/kg which is used in the presence of other non-carcinogens. Since naturally occurring concentrations of barium in soils in this region are known to be relatively high and the Cannon AFB Background Study found a level of 805 mg/kg, it is impractical to impose the RBSL of 530 mg/kg. Another circumstance mitiagating the use of the 530 mg/kg RBSL is that Sample No. 14 may represent an isolated "hot spot" for barium, since its field duplicate and Sample No. 7 both detected barium at levels less than 530 mg/kg.

None of the other metals detected exceed their respective Region VI background levels or RBSLs The site is paved and located in an industrial portion of the base. It can reasonably asserted, therefore, that no chemicals, were detected at concentrations which are likely to pose a potentially significant human health risk based on any future land use scenario for SWMU 51.

Evaluation of the Groundwater Pathway

The depth to groundwater is approximately 240 feet at Cannon AFB (Woodward Clyde, 1992). Additionally site lithology in the vadose zone, including clays and Caliche (calcium carbonate) layers, as well as the asphalt paving over the site, would tend to impede infiltration and dissolved-phase and pure-phase transport mechanisms. Organics are much more likely to be transported by dissolved-phase and pure-phase mechanisms than inorganics. Due to these considerations, unsaturated zone transport was assumed not to be a significant transport mechanism, therefore, the potential risks and hazards associated with groundwater use and ingestion were not considered as a valid or complete exposure pathway.

Risk Conclusion

The results of the soil investigation following the removal of the oil/water separator at SWMU 51 indicate that no chemical release that poses an unacceptable human health risk for any potential exposure pathway has occurred at this SWMU and, therefore, no further evaluation of this SWMU

is warranted.

4.2.4 SWMU 57

UNIT DESCRIPTION

This OWS unit was located adjacent to the southwest side of building 379. The top of the unit was surrounded on all sides by asphalt. The unit was a 3-compartment underground concrete box measuring 6.5-feet in length, 5-feet in width and 6-feet in depth. The walls of the unit were 6-inches thick and contained steel reinforcement. The unit functioned as an oil/water separator which received effluent from drains in hangar building 186. Recovered oils were contained in a compartment within the unit and wastewater was discharged to the sanitary sewer, SWMU 98. The unit was beneath asphalt paving.

After removal of the unit, a brass cap was placed at the southernmost corner to mark its former location as shown in Figure 4.2-4. The point was surveyed by Lydick Engineers at New Mexico State Plane Coordinates: North 1237364.18 and East 805786.91.

UNIT REMOVAL

On November 21, 1996, the asphalt was sawcut around the unit and excavation of 2 feet of soil from around the sides of the unit was completed. Excavated soils were taken to the bermed soil storage area on the abandoned runway. The breathing zone was monitored and a peak level of 0.0 units was observed on the PID, and an LEL of <2% and O_2 level of 21% were observed on the combustible gas meter (CGI).

On November 26, 1996, the contents of the unit were removed by a vacuum pump truck and the inside of the unit was cleaned with a high pressure washer. Field personnel were dressed in level C personal protective equipment. Approximately 475gallons of liquid and 68 gallons of sludge were removed from the unit and placed in clean 55-gallon steel drums which were stored at the staging area on the abandoned runway.

On December 2, 1996, the inlet and outlet pipes were disconnected and temporarily capped. Holes were knocked into the sides of the unit so that hooks on chains could be inserted to allow the unit to be pulled from the excavation using a crane. The unit was removed and visually inspected. The exterior walls of the unit had no dark staining which indicated that the unit had not leaked. Excavated soils were not discolored and no fuel odors were observed. Wooden shoring was placed in the excavation.

On December 4, 1996, a new McTighe Industries, Inc., model POWS-350-DW-EL Parallel Corrugated Plate Oil-Water Separator of UL-1746 Listed Jacketed Composite Secondary Containment Construction, was placed in the same location as the previous unit. Reconnection from the sewer to the new OWS was done using double contained inlet and outlet pipe and fittings. Once the unit passed a pressure test, the excavation was filled with clean backfill and compacted to grade, according to the manufacturer's recommendations. The backfill soils were obtained off-base and were analyzed in the laboratory for TCLP metals. Results of this analyses indicated only a low level of barium (1.3 mg/L).

UNIT CONTENTS

The unit contained approximately 475 gallons of liquids and 68 gallons of sludge. The sludge and the liquids were sampled and sent for laboratory analysis. Laboratory analysis results for this material is reproduced in Appendix I. Results indicated that this material, due to its high TRPH concentrations (water: 1900 mg/L, sludge: 43,900), be labeled for shipment as a New Mexico Special Waste Material, but not a RCRA hazardous waste, nor a DOT hazardous material. The material was placed in clean 55-gallon drums and disposed of off-base by Envirosolve Southwest, Inc. in Albuquerque, New Mexico. The disposal documentation for this material is reproduced in Appendix II.

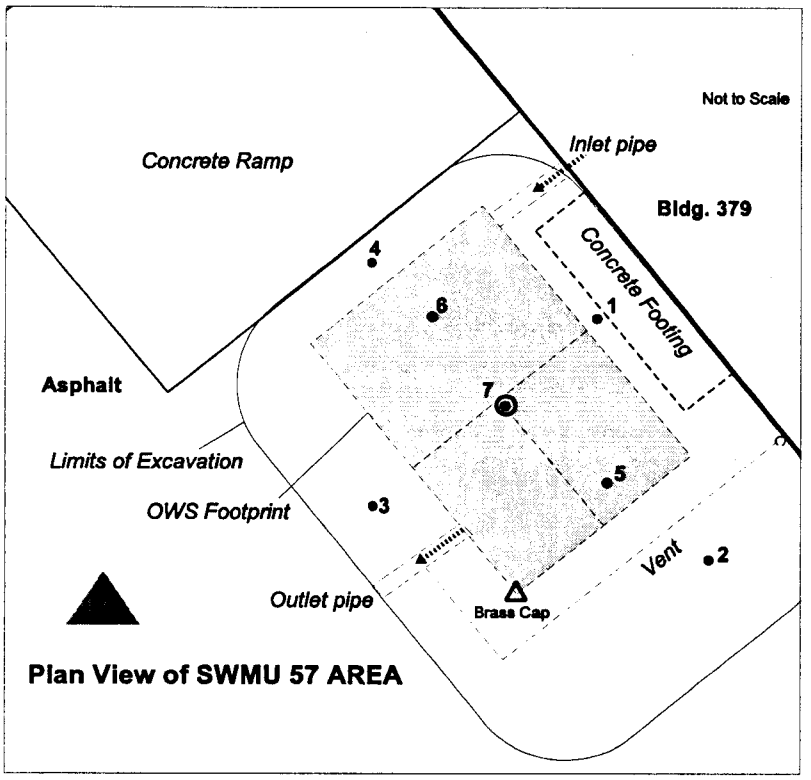

Figure 4.2-4. SWMU 57 Sample Locations

SOIL SAMPLING

Soil samples (Nos. 1 through 4 as shown in Fig. 4.2-4) were taken from the bottom of each of the four vertical sidewalls of the excavation at a depth of 8-feet below ground surface (bgs), and two samples (Nos. 5 and 6) were collected from the bottom of the excavation at a depth of 8 feet bgs, for on-site field analysis. After field analysis of these samples using headspace analysis with a PID and immunoassay method 4030 indicated that the Total Petroleum Hydrocarbon (TPH) content for each sample was below 20 ppm and BTEX content was 10 ppm or below, a confirmatory sample (No. 7) was taken from the center of the bottom of the excavation at a depth of 8 feet bgs, and sent for laboratory analysis. Duplicates of samples Nos. 1 and 5 were submitted for laboratory analysis to correlate field findings with laboratory results. Field screening results are reproduced in Appendix III.

Results for Sample No. 7 indicate the presence of the semivolatile compound di-n-butylphthalate at 13 mg/Kg and the metals, barium at 0.8 mg/L and chromium at 0.02 mg/L. The di-n-butylphthalate and the chromium were both found in the laboratory method blanks for these analysis, indicating laboratory contamination of the sample. Laboratory analysis did not detect BTEX or TPH in either sample Nos. 1 or 5, confirming the field analysis.

TCLP results of excavated soils No. 8, indicate only a trace amount of Barium (1.2mg/L), an

element which is native in these soils and appears at the same level in the off-base backfill soils used to fill the excavations in this corrective measure. Excavated soils were subsequently removed from the staging area and placed in the Base landfill. TCLP results also indicated the presence of chromium at 0.03 mg/L. The chromium also was found in the laboratory method blank for this analysis, indicating laboratory contamination of the sample.

A summary of soil sample results is shown in Table 4.2-10. Copies of all analysis results are provided in Appendix IV. All samples for SWMU 57 were labeled for identification in the following manner: CA(SWMU #)/(Sample #)-YY-MMDD-(24-hr time). For example, the SWMU 57 sample No. 7 in this text is identified by the laboratory as CA057/7-97-0314-1136.

Table 4.2-10

SUMMARY OF SWMU 57 SOIL SAMPLE RESULTS

No.	Depth (ft)	Location	PID units	4030 TPH ppm	4030 BTEX ppm	SWA846 8020A BTEX mg/Kg	SWA846 M8015 DRO mg/Kg	SWA846 8260 mg/Kg	SWA846 8270B SOX mg/Kg	TCLP 8 RCRA Metals mg/L
1	8	OWS	ND	<20	10	ND	ND	NT	NT	NT
2	8	OWS	ND	<20	ND	NT	NT	NT	NT	NT
3	8	OWS	ND	<20	<10	NT	NT	NT	NT	NT
4	8	OWS	ND	<20	<10	NT	NT	NT	NT	NT
5	8	OWS	ND	<20	<10	ND	ND	NT	NT	NT
6	8	OWS	ND	<20	ND	ND	NT	NT	NT	NT
7	8	OWS	NT	NT	NT	NT	ND	ND	ND[1]	Ba, Cr[2]
8	N/A	OWS	NT	NT	NT	ND	ND	NT	NT	Ba, Cr[3]

[1]Only contaminant reported: Di-n-butylphthalate found in sample (13 mg/Kg) and laboratory method blank.
[2]Chromium found in sample (0.02 mg/L) and laboratory method blank.
[3]Chromium found in sample (0.03 mg/L) and laboratory method blank.
ND indicates non-detect.
NT indicates not tested.

UNIT DISPOSAL

The concrete from this unit was stockpiled on the abandoned runway site until samples were taken from the bottom inside wall of the unit. This sample was mixed with five other SWMU unit concrete samples (SWMUs 51, 9, 94, 32a, and 8) to form a composite sample for laboratory analysis. The concrete sample was analyzed using TCLP methods for metals, pesticides, volatiles and semivolatiles. Only low levels of barium (0.5 mg/L), 2-methylphenol/o-cresol (0.0068 mg/L) and ¾-methylphenol/m/p-cresol (0.0023 mg/L) were found in this sample. The concrete from this unit

was disposed of in the City of Clovis Public Landfill in Clovis, New Mexico on April 16, 1997.

PROJECT COSTS

The total cost for SWMU 57 removal and restoration were $58,058.76 and are summarized in Table 4.2-11.

Table 4.2-11

SWMU 57 CONTRACT QUANTITIES AND COSTS				
Contract Bid Item No.	DESCRIPTION	$/UNIT	QUANTITY	COST($)
1	Mobilization/Demobilization	16.257/MI	0	0
2	Travel Cost pertaining to construction contract	1957.8/EA	0	0
15	Sawcut concrete	12.93/LF	0	0
16	Concrete removal and disposal	237.38/T	0	0
17	Concrete Replacement	154.82/CY	2 CY	309.64
18	Sawcut Asphalt	1.5/LF	23 LF	34.50
19	Asphalt removal and disposal	28.88/T	3.04 T	87.80
20	Asphalt replacement	34.96/SY	0	0
25	Waste Oils, Tank Contents, Pump, Transport, Dispose, Recycle and/or Treatment, Complete	5.09/GAL	0	0
26	Hazardous & Dangerous Substances, Tank Contents, Pump, Transport, Dispose and/or Treatment, Complete	56.76/GAL	0	0
27	Contaminated Water, Tank Contents, Pump, Transport, Recycle and/or Dispose, Complete	2.61/GAL	474.83 GAL	1,239.31
28	Non-Contaminated Water, Tank Contents, Pump, Transport, Recyclye and/or Dispose, Complete	0.86/GAL	0	0
29	Hazardous Soil, Including Excavation, Transportaion, Treatment, Disposal and Required Backfill Material, Complete	289.15/T	0	0
30	Highly Contaminated Soil, Including Excavation, Transportaion, Treatment, Disposal and Required Backfill Material, Complete	90.75/T	0	0

SWMU 57 CONTRACT QUANTITIES AND COSTS				
Contract Bid Item No.	**DESCRIPTION**	**$/UNIT**	**QUANTITY**	**COST($)**
33	Soil Sampling & Analysis, Method 8015 Modified (TPH), Complete	189.3/EA	4	757.20
38	Soil Sampling & Analysis, Method 6010 (Total Metals), Complete	539.20/EA	1	539.20
40	Remove OWSs,USTs and associated piping, Install new OWSs, all per drawings 0 and C1 through C12	LS	1	42,421.00
41	Removal and Disposal of Sludge from OWS	113.76/ GAL	67.83 GAL	7,716.34
42	Soil Sampling & Analysis, Total BTEX Rapid Assay or Equivalent (Immunoassay-BTEX), Complete	158.01/EA	6	948.06
43	Soil Sampling & Analysis, Draft Method 4030 (Immunoassay-TPH), Complete	158.01/EA	6	948.06
44	Soil Sampling & Analysis, Method 8260 (VOAs), Complete	375.08/EA	1	375.08
45	Soil Sampling & Analysis, Method 8270 (Semi-VOAs), Complete	619.36/EA	1	619.36
46	Soil Sampling & Analysis, Method 8020 (BTEX), Complete	155.28/EA	3	465.84
47	Case 780D Backhoe, Operator & Laborer, Complete	140.5/HR	0	0
48	Soil Sampling & Analysis, Method 1311 (TCLP), Total Analyte List Metals and SVOCs, Complete	798.69/EA	2	1,597.38
49	Remove & Dispose of Non-hazardous Sludge from OWS (Partial drums that cannont be filled from another unit shall be paid as full drum)	203.53/ 55-GAL DRUM	0	0
50	Remove & Dispose of Hazardous Sludge from OWS (Partial drums that cannont be filled from another unit shall be paid as full drum)	474.90/ 55-GAL DRUM	0	0
Misc	New Fencing installed at SWMU 94	LS	0	0
TOTAL				**$58,058.76**

SWMU 57 RISK EVALUATION

Site Conceptual Exposure Model

There are three potentially unique mechanisms, or exposure pathways, by which an individual or population would come in contact with a chemical(s) of concern at SWMU 57: direct contact with soil, inhalation of airborne emissions from soil, and domestic use of groundwater on the Base or at the Base boundary. The persons, structures, utilities, surface waters, and water supply wells that are or may be adversely affected by a release at SWMU 57 are the potential receptors. The potential receptors include Base workers (e.g., military and Base personnel, Base contractors, construction workers, Base residents and Base visitors), and residential receptors at the Base boundary downgradient of the SWMU who may use the groundwater.

Comparison of Concentrations in Soil to Risk Based Screening Levels (RBSLs)

The ***EPA Region 6 Human Health Media-Specific Screening Levels,*** dated October 30, 1996, a look-up table, was used to determine whether site conditions satisfy the criteria for recommendation of regulatory closure or warrant a more site-specific evaluation. Maximum detected soil concentrations of volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs) and metals were compared to EPA Region VI risk-based screening levels (RBSLs) for residential soil to evaluate whether a significant release (i.e., capable of posing a risk to human health) has occurred at SWMU 57. EPA Region VI RBSLs were used for the comparison because they are a comprehensive and up-to-date list of RBSLs derived using accepted risk assessment methodology. As noted, Table 4.2-10 shows a summary of VOCs,SVOCs and metals detected in soil samples collected at SWMU 57. Table 4.2-12 delineates the maximum concentrations of metals detected at SWMU 57.

Di-n-butylphthalate was detected in Sample No. 7 at a depth of 8 feet bgs, and at a concentration of 13 mg/kg. Dibutylphthalate has a Region VI non-carcinogenic listing of 6500 mg/kg for residential soils, therefore, the level detected should pose no significant threat to human health. Di-n-butylphthalate was also found in the laboratory method blank for this sample. After further data review, it is believed that di-n-butylphthalate is a laboratory contaminant associated with plasticizers commonly found in laboratory equipment. Nine of the 19 SWMUs analyzed during this corrective measure showed di-n-butylphthalate contamination in the method 8270 blank analysis.

Table 4.2-12

SWMU 57 Maximum Soil Sample Concentrations of Metals						
Sample No.	Total Metals mg/kg		TCLP Metals mg/L	Background Conc. Region VI / Cannon AFB[1] mg/kg		Region VI Residential RBSL mg/kg
7	Silver	1.4	<0.040	0.01 - 5	2.65	380 N
7	Arsenic	0.78	<0.40	1.1 - 16.7	3.6	0.32 C
	Barium	162	0.8	430	805	5300 N
	Cadmium	0.21	<0.0050	0.01 - 1.0	1.3	38 N
	Chromium	8.7	0.020	38	13.3	31 C
	Nickel	6.4	NT	16	11.4	1500 N
	Lead	9.3	<0.05	10-18	7.1	400 N

N - noncarcinogenic
C - carcinogenic
NT - not tested

[11]CAFB Background Study, 1997

Arsenic was detected in Sample No. at a depth of 8 feet and at a concentration of 0.78 /kg. This concentration lies well within the Region VI background range, however, it exceeds the Region VI RBSL of 0.32 mg/kg for carcinogenic arsenic and the RBSL of 2.2 mg/Kg for non-carcinogenic arsenic. Since naturally occurring concentrations of arsenic in soils in this region are known to be relatively high and greatly exceed the carcinogenic RBSL of 0.32 mg/kg, it is impractical to impose this RBSL at this site. As an alternative, it is proposed to use ***The Background Investigation, Cannon Air Force Base, New Mexico,*** dated September 1997, value for arsenic in sub-surface soils of 3.6 mg/kg.

Among the metals analyzed, none exceed their respective Region VI background levels or RBSLs In addition, the site is paved and located in an industrial portion of the base. It can be reasonably asserted, therefore, that no chemicals were detected at concentrations which are likely to pose a potentially significant human health risk based on any future land use scenario for SWMU 57.

Evaluation of the Groundwater Pathway

The depth to groundwater is approximately 240 feet at Cannon AFB (Woodward Clyde, 1992). Additionally site lithology in the vadose zone, including clays and Caliche (calcium carbonate) layers, as well as the asphalt paving over the site, would tend to impede infiltration and dissolved-phase and pure-phase contaminant transport. Organics are much more likely to be transported by dissolved-phase and pure-phase mechanisms than are inorganics. Due to these considerations, unsaturated zone transport was assumed not to be a significant transport mechanism, therefore, the potential risks and hazards associated with groundwater use and ingestion were not considered as a complete in-direct exposure pathway.

Risk Conclusion

The results of the soil investigation following the removal of the oil/water separator at SWMU 57 indicate that no chemical release that poses an unacceptable human health risk for any potential exposure pathway has occurred at this SWMU and, therefore, no further evaluation of this SWMU is warranted.

4.2.5 SWMU 61

UNIT DESCRIPTION

This unit was located in the west side of a concrete washrack, former facility 5077, adjacent to former building 5077. Former facility 5077 included two 380-gallon sand traps within the limits of the washrack and a 1,675-gallon OWS located southeast of the wash rack. The facility was active from 1957 until it was removed in August, 1996. SWMU 61 was a concrete box measuring 6.5-feet in length, 3-feet in width and 30-inches in depth. The walls of the unit were 4-inches thick and contained no reinforcing steel.

After removal of the unit, the washrack area was paved with asphalt as part of a parking lot. A brass cap was placed at the southwestern corner to mark its former location as shown in Figure 4.2-5. The point was surveyed by Lydick Engineers at New Mexico State Plane Coordinates: North 1238136.26 and East 806043.95.

UNIT REMOVAL

On 19 August 1996, the concrete pad surrounding this unit was partially removed and the concrete rubble weighing approximately 67,640 pounds was transported to the City of Clovis Public Landfill (CCPL) for disposal. The concrete rubble from the pad was monitored every 15 minutes by a photo-ionization detector (PID) and no ionizable hydrocarbons were detected near the surface of the concrete nor in the breathing zone. Five truckloads of concrete rubble were removed on 20 August 1996, and approximately 25,040 pounds of concrete rubble were removed on 21 August 1996. All concrete rubble was transported directly from the SWMU 61 site on CAFB to the Clovis Public Landfill in Clovis, New Mexico, for disposal.

On 20 August 1996, the contents of the unit were removed by a vacuum pump truck and the inside of the unit was cleaned with a high pressure washer. Field personnel were dressed in level C personal protective equipment during the pumping and cleaning. The interior surface of the unit was checked with the PID and no residual contamination was indicated by this instrument. Surrounding soil was excavated to within 2 feet of the unit and removed to a stockpile area on a designated part of the abandoned runway. The exterior walls of the unit showed no signs of dark staining, indicating that the unit had not leaked. The breathing zone was monitored and a peak level of 0.0 units was observed on the PID, and an LEL of $<2\%$ and O_2 level of 19.5% were observed on the combustible gas meter (CGI).

On August 21, 1996, a backhoe was used to break the unit into pieces, to remove it from the excavation, and to load it onto a truck. The truck transported the waste concrete directly from the SWMU 61 site to the Clovis Public Landfill in Clovis, New Mexico, for disposal. The excavation was filled with clean backfill and compacted to grade. The backfill soils were obtained off-base and were analyzed in the laboratory for TCLP metals. Results of this analyses indicated only a low level of barium (1.3 mg/L).

UNIT CONTENTS

The unit contained approximately 110 gallons of saturated sediment. The sediments and liquids were allowed to separate and then were sampled and sent for laboratory analysis. Laboratory analysis results for this material is reproduced in Appendix I. Results show that this material was not a RCRA hazardous waste nor a DOT hazardous material. This material was placed in clean 55-gallon drums and disposed of off-base by Envirosolve Southwest, Inc. in Albuquerque, New Mexico. The disposal documentation for this material is reproduced in Appendix II.

SOIL SAMPLING

Soil samples were taken from each of the four vertical sides of the excavation at a depth of 2 feet below ground surface (bgs), and two samples were collected from the bottom of the excavation at a depth of 54 inches bgs, for on-site field analysis (see fig.4.2-5). After field analysis of these samples using headspace analysis with a PID and immunoassay method 4030 indicated that the Total Petroleum Hydrocarbons (TPH) contents for each sample, except sample No. 6, was below 100 ppm, a confirmatory sample was taken from the center of the bottom of the excavation at a depth of 54 inches bgs, and sent for laboratory analysis. Sample No. 6 indicated a TPH concentration greater than 100 ppm, therefore, an additional field screening sample (No. 8) was taken from 2 feet below the bottom of the excavation at a depth of 78 inches bgs. The deeper Sample No. 8 was field tested and found to contain less than 100 ppm TPH. Field screening results are reproduced in Appendix III.

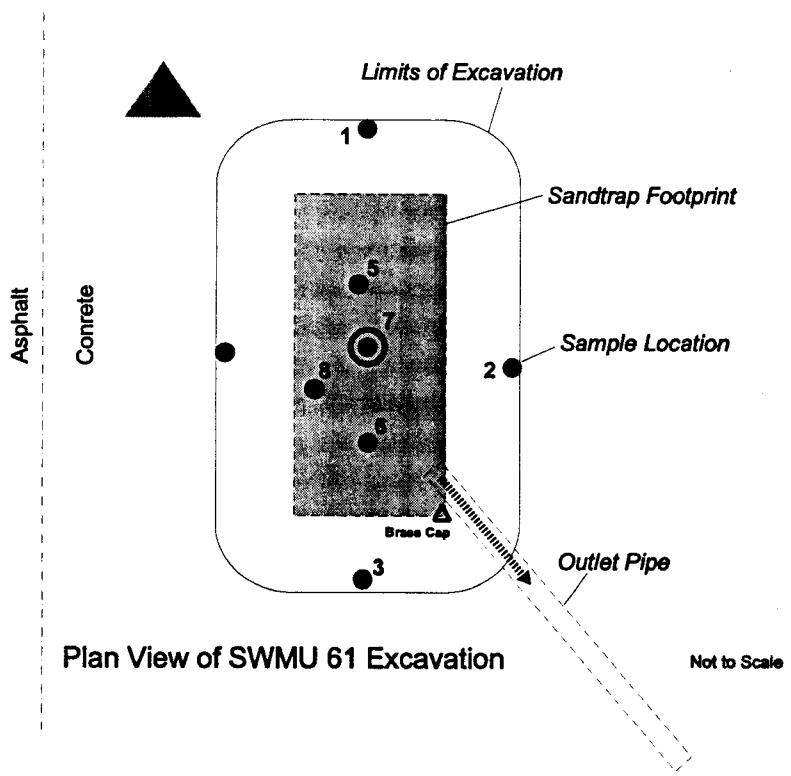

Figure 4.2-5. SWMU 61 Sample Locations

Sample No. 7, taken from the bottom of the excavation, was sent for laboratory analysis. Results for Sample No. 7 indicate no significant levels of organics, confirming the field analysis.

Soils removed from the excavation were observed to contain no petroleum odors and no visual staining. These soils were field tested using the immunoassay method 4030 for TPH and BTEX and results indicated the TPH level was less than 100 ppm and the BTEX level was less than 50 ppm. A composite sample of

excavated soil was submitted for laboratory analysis. TCLP results on this sample indicated only a trace amount of barium (1.3 mg/L), an element which is native in these soils and appears at the same level in the off-base backfill soils used to fill the excavations in this corrective measure. These soils were subsequently removed from the staging area and used as backfill at the SWMU 112 leach field excavation.

A summary of soil sample results is shown in Table 4.2-13. Copies of laboratory analysis results for soils are provided in Appendix IV. All samples for SWMU 61 were labeled for identification in the following manner: CA(SWMU #)/(Sample #)-YY-MMDD-(24-hr time). For example, the SWMU 61 sample No. 7 in this text is identified by the laboratory as CA061/7-97-0314-1136.

Table 4.2-13

SUMMARY OF SWMU 61 SOIL SAMPLE RESULTS

No.	Depth (ft)	Location	PID units	4030 TPH ppm	4030 BTEX ppm	SWA846 8020A BTEX mg/Kg	SWA846 M8015 DRO mg/Kg	SWA846 8260 mg/Kg	SWA846 8270B SOX mg/Kg	TCLP 8 RCRA Metals mg/L
1	2	Sandtrap	ND	<15	NT	NT	NT	NT	NT	NT
2	2	Sandtrap	0.6	<100	NT	NT	NT	NT	NT	NT
3	2	Sandtrap	ND	<100	NT	NT	NT	NT	NT	NT
4	2	Sandtrap	ND	<100	NT	NT	NT	NT	NT	NT
5	4.5	Sandtrap	0.3	<15	NT	NT	NT	NT	NT	NT
6	4.5	Sandtrap	ND	>100	NT	ND	NT	NT	NT	NT
7	4.5	Sandtrap	NT	NT	NT	NT	ND	ND	ND	NT
8	6.5	Sandtrap	ND	<15	NT	NT	NT	NT	NT	NT
9	n/a	excavated material	ND	<15	<50	NT	NT	NT	NT	Ba

ND indicates non-detect.
NT indicates not tested.

UNIT DISPOSAL

The concrete from this unit was removed from the excavation on 22 August 1996 and transported directly to the City of Clovis Public Landfill in Clovis, New Mexico.

PROJECT COSTS

The total cost for SWMU 61 removal and restoration were $58,205.50 and are summarized in Table 4.2-14. The contract bid item No. 40, however, includes removal and disposal costs for SWMUs 62 and 63.

Table 4.2-14

SWMU 61 CONTRACT QUANTITIES AND COSTS				
Contract Bid Item No.	DESCRIPTION	$/UNIT	QUANTITY	COST($)
1	Mobilization/Demobilization	16.257/MI	100 MI	$1,626.00
2	Travel Cost pertaining to construction contract	1957.8/EA	0	0
15	Sawcut concrete	12.93/LF	0	0
16	Concrete removal and disposal	237.38/T	99.55 T	23,631.18
17	Concrete Replacement	154.82/CY	0	0
18	Sawcut Asphalt	1.5/LF	0	0
19	Asphalt removal and disposal	28.88/T	0	0
20	Asphalt replacement	34.96/SY	0	0
25	Waste Oils, Tank Contents, Pump, Transport, Dispose, Recycle and/or Treatment, Complete	5.09/GAL	0	0
26	Hazardous & Dangerous Substances, Tank Contents, Pump, Transport, Dispose and/or Treatment, Complete	56.76/GAL	0	0
27	Contaminated Water, Tank Contents, Pump, Transport, Recycle and/or Dispose, Complete	2.61/GAL	0	0
28	Non-Contaminated Water, Tank Contents, Pump, Transport, Recyclye and/or Dispose, Complete	0.86/GAL	0	0
29	Hazardous Soil, Including Excavation, Transportaion, Treatment, Disposal and Required Backfill Material, Complete	289.15/T	0	0
30	Highly Contaminated Soil, Including Excavation, Transportaion, Treatment, Disposal and Required Backfill Material, Complete	90.75/T	0	0
33	Soil Sampling & Analysis, Method 8015 Modified (TPH), Complete	189.3/EA	2	378.60

SWMU 61 CONTRACT QUANTITIES AND COSTS				
Contract Bid Item No.	**DESCRIPTION**	**$/UNIT**	**QUANTITY**	**COST($)**
38	Soil Sampling & Analysis, Method 6010 (Total Metals), Complete	539.20/EA	2	1,078.40
40	Remove OWSs,USTs and associated piping, Install new OWSs, all per drawings 0 and C1 through C12	LS	1 (includes SWMU 62 & 63)	28,621.00
41	Removal and Disposal of Sludge from OWS	113.76/ GAL	0	0
42	Soil Sampling & Analysis, Total BTEX Rapid Assay or Equivalent (Immunoassay-BTEX), Complete	158.01/EA	1	158.01
43	Soil Sampling & Analysis, Draft Method 4030 (Immunoassay-TPH), Complete	158.01/EA	9	1,422.09
44	Soil Sampling & Analysis, Method 8260 (VOAs), Complete	375.08/EA	1	375.08
45	Soil Sampling & Analysis, Method 8270 (Semi-VOAs), Complete	619.36/EA	1	619.36
46	Soil Sampling & Analysis, Method 8020 (BTEX), Complete	155.28/EA	1	155.28
47	Case 780D Backhoe, Operator & Laborer, Complete	140.5/HR	1	140.50
48	Soil Sampling & Analysis, Method 1311 (TCLP), Total Analyte List Metals and SVOCs, Complete	798.69/EA	0	0
49	Remove & Dispose of Non-hazardous Sludge from OWS (Partial drums that cannont be filled from another unit shall be paid as full drum)	203.53/ 55-GAL DRUM	0	0
50	Remove & Dispose of Hazardous Sludge from OWS (Partial drums that cannont be filled from another unit shall be paid as full drum)	474.90/ 55-GAL DRUM	0	0
Misc	New Fencing installed at SWMU 94	LS	0	0
TOTAL				**$58,205.50**

SWMU 61 RISK EVALUATION

Site Conceptual Exposure Model

There are three potentially unique mechanisms, or exposure pathways, by which an individual or population would come in contact with a chemical(s) of concern at SWMU 61: direct contact with soil, inhalation of airborne emissions from soil, and domestic use of groundwater on the Base or at the Base boundary. The persons, structures, utilities, surface waters, and water supply wells that are or may be adversely affected by a release at SWMU 61 are the potential receptors. The potential receptors include Base workers (e.g., military and Base personnel, Base contractors, construction workers, Base residents and Base visitors), and residential receptors at the Base boundary downgradient of the SWMU who may use the groundwater.

Comparison of Concentrations in Soil to Risk Based Screening Levels (RBSLs)

The ***EPA Region 6 Human Health Media-Specific Screening Levels,*** dated October 30, 1996, a look-up table, was used to determine whether site conditions satisfy the criteria for recommendation of regulatory closure or warrant a more site-specific evaluation. Maximum detected soil concentrations of volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs) and metals were compared to EPA Region VI risk-based screening levels (RBSLs) for residential soil to evaluate whether a significant release (i.e., capable of posing a risk to human health) has occurred at SWMU 61. EPA Region VI RBSLs were used for the comparison because they are a comprehensive and up-to-date list of RBSLs derived using accepted risk assessment methodology. As noted, Table 4.2-13 shows a summary of VOCs,SVOCs and metals detected in soil samples collected at SWMU 61. Table 4.2-15 delineates the maximum concentrations of metals detected at SWMU 61.

Table 4.2-15

SWMU 61 Maximum Soil Sample Concentrations of Metals

Sample No.	Total Metals mg/Kg		TCLP Metals mg/L	Background Conc. Region VI / Cannon AFB[1] mg/Kg		Region VI Residential RBSL mg/Kg
9	Arsenic	3.3	NT	1.1 - 16.7	3.6	0.32 C
7	Barium	53.3	NT	430	805	5300 N
	Chromium	8.9	NT	38	13.3	31 C
9	Nickel	7.1	NT	16	11.4	1500 N
	Lead	4.7	NT	10-18	7.1	400 N

N - noncarcinogenic
C - carcinogenic
NT - not tested

[11]CAFB Background Study, 1997

Arsenic was detected in Sample No. 9 at a concentration of 3.3 /kg. This concentration lies well within the Region VI background range, however, it exceeds the Region VI RBSL of 0.32 mg/kg for carcinogenic arsenic and the RBSL of 2.2 mg/Kg for non-carcinogenic arsenic. Since naturally occurring concentrations of arsenic in soils in this region are known to be relatively high and greatly exceed the carcinogenic RBSL of 0.32 mg/kg, it is impractical to impose this RBSL at this site. As an alternative, it is proposed to use ***The Background Investigation, Cannon Air Force Base, New Mexico,*** dated September 1997, value for arsenic in sub-surface soils of 3.6 mg/kg.

Among the other metals analyzed, none exceeded the respective Region VI background level or RBSL. In addition, the site is paved and located in an industrial portion of the base. It can be reasonably asserted, therefore, that no chemicals, except arsenic, were detected at concentrations which are likely to pose a potentially significant human health risk based on any current or future land use scenario for SWMU 61.

Evaluation of the Groundwater Pathway

The depth to groundwater is approximately 240 feet at Cannon AFB (Woodward Clyde, 1992). Additionally site lithology in the vadose zone, including clays and Caliche (calcium carbonate) layers, as well as the asphalt paving over the site, would tend to impede infiltration and dissolved-phase and pure-phase contaminant transport. Organics are much more likely to be transported by dissolved-phase and pure-phase mechanisms than are inorganics. Due to these considerations, unsaturated zone transport was assumed not to be a significant transport mechanism, therefore, the potential risks and hazards associated with groundwater use and ingestion were not considered as a complete in-direct exposure pathway.

Risk Conclusion

The results of the soil investigation following the removal of the oil/water separator at SWMU 61 indicate that no chemical release that poses an unacceptable human health risk for any potential exposure pathway has occurred at this SWMU and, therefore, no further evaluation of this SWMU is warranted.

4.2.6 SWMU 62

UNIT DESCRIPTION

This sandtrap was located in the east side of a concrete washrack, former facility 5077, adjacent to former building 5077. Former facility 5077 included two 380-gallon sandtraps within the limits of the washrack and a 1,675-gallon OWS located southeast of the wash rack. The facility was active from 1957 until it was removed in August, 1996. SWMU 62 was a concrete box measuring 6.5-feet in length, 3-feet in width and 30-inches in depth. The walls of the unit were 4-inches thick and contained no reinforcing steel.

After removal of the unit, the washrack area was paved with asphalt as part of a parking lot. A brass cap was placed at the southwestern corner to mark its former location as shown in Figure 4.2-6. The point was surveyed by Lydick Engineers at New Mexico State Plane Coordinates: North 1238118.74 and East 806060.67.

UNIT REMOVAL

On 20 August 1996, the contents of the unit were removed by a vacuum pump truck and the inside of the unit was cleaned with a high pressure washer. The interior surface of the unit was checked with the PID and no residual contamination was indicated by this instrument. The soil was excavated from the edge of the unit to a distance of 2 feet from the unit on each side and removed to a stockpile area on a designated part of the abandoned runway. The exterior walls showed no signs of dark staining, indicating that the unit did not leak. The inlet pipe appeared to be leaking because the soil adjacent to the inlet was stained and had a fuel/solvent odor. The breathing zone of the excavation was monitored every 15 minutes by a PID. When PID units indicated a level of 2.1 units, the site workers suited into Level C personal protection with full-face respirators.

On August 22, 1996, the exclusion zone was monitored with a PID and no ionizable hydrocarbons were detected in the breathing zone in that area. Using a backhoe, the unit was then broken into pieces, removed from the excavation, and loaded onto a truck. The truck transported the waste concrete to the stockpile area for temporary storage. The breathing zone was monitored and a peak level of 0.0 units was observed on the PID, and an LEL of $<2\%$ and O_2 level of 21% were observed on the combustible gas meter (CGI).

The excavation was filled with clean backfill and compacted to grade. The backfill soils were obtained off-base and were analyzed in the laboratory for TCLP metals. Results of this analyses indicated only a low level of barium (1.3 mg/L).

UNIT CONTENTS

The unit contained approximately 200 gallons of saturated sediments . The contents were pumped into clean 55-gallon drums. The sediments and liquids were allowed to separate in the drums and then were sampled and sent for laboratory analysis. Laboratory analysis results for this material is reproduced in Appendix I. Results show that this material contains low levels of barium in the TCLP leachate (2.17 mg/L in the sediments and 0.64 mg/L in the leachate, respectively) and is

not a RCRA hazardous waste nor a DOT hazardous material. This material was disposed of off-base (Envirosolve Southwest Inc). The disposal documentation for this material is reproduced in Appendix II.

SOIL SAMPLING

Soil samples were taken from each of the four vertical sides of the excavation at a depth of 3 feet bgs, and two samples were collected from the bottom of the excavation at a depth of 55 inches, for on-site field analysis (see fig. 4.2-6). After field analysis of these samples using immunoassay method 4030 indicated that the Total Petroleum Hydrocarbons (TPH) contents for each sample, except Sample No. 2, was below 100 ppm, a confirmatory sample was taken from the center of the bottom of the excavation at a depth of 55 inches and sent for laboratory analysis. Sample No. 2 indicated a TPH concentration of less than 15 ppm and greater than 100 ppm. Due to the ambiguity of these results, the sample was retested and indicated TPH concentrations of less than 15 ppm and less than 100 ppm. Field screening results are reproduced in Appendix III. Visual staining of the soil was observed around the inlet pipe connection near the Sample No. 4 location. The highest readings on the PID for any of the samples were 8.3 and 8.4 ppm VOC at Sample Nos. 4 and 3, respectively. After additional soil was removed, Sample No. 8 was taken for field screening near the inlet pipe connection at a depth of 24 inches. Sample No. 8 results indicated a TPH level of less than 100 ppm.

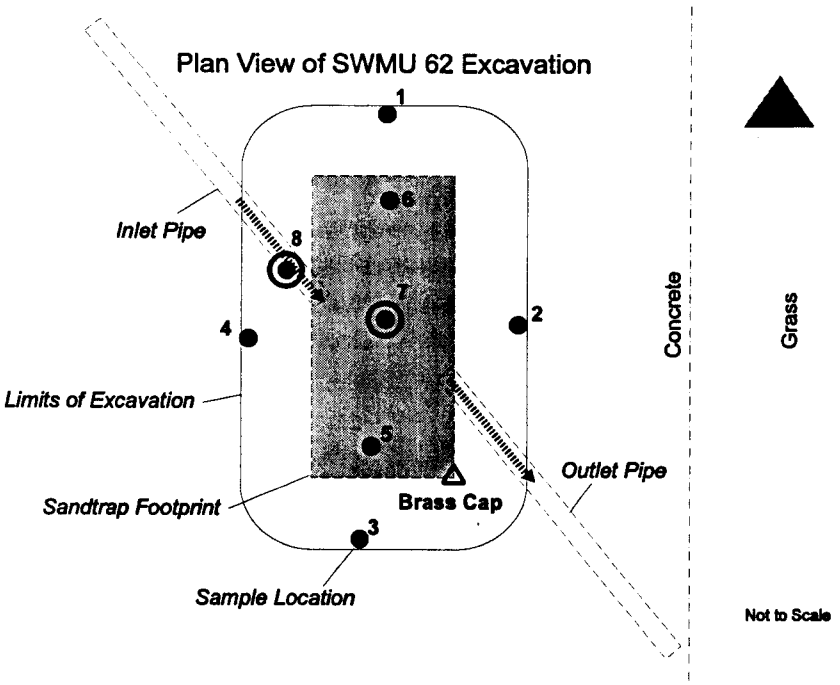

Figure 4.2-6. SWMU 62 Sample Locations

Stockpiled soils were sampled and submitted for laboratory analysis. The stockpile was left uncovered and occationally mixed. TCLP results of a composite sample indicate a barium level of 1.2 mg/L.

Fieldscreening samples were tested on-site using headspace analysis with a PID and immunoassay method 4030s for TPH. Sample No. 2 showed TPH levels that exceeded 100 ppm but less than 15 ppm. The sample was reanalysised and the results indicated TPH level less than 15 ppm and less than 100 ppm. This sample and sample No. 4 were sent in for laboratory analysis. The laboratory

results indicate less than than 100 ppm TPH for sample No. 2 and a non-detect for sample No. 4. Nos. 2 and 4 were also analyzed for BTEX, and both results were negative.

Sample No. 7, taken from the bottom of the excavation, was sent for laboratory analysis. Results for Sample No. 7 indicate no significant levels of organics, confirming the immunoassay results. This sample was not analyzed for TCLP metals, however SW846 6010 for total metals was used. Those laboratory results show low levels of barium at 37.7 mg/Kg, chromium at 8.4 mg/Kg, nickel at 6.9 mg/Kg, and lead at 4.8 mg/Kg.

The deeper Sample No. 8 was field tested and found to contain less than 100 ppm TPH.

Sample No. 9 was a composite of excavated soils and was field tested using the immunoassay method 4030 for TPH and BTEX. Results indicated the TPH level was less than 100 ppm and the BTEX level was less than 50 ppm. Sample No. 9 was analyzed using ICP SWA846 6010 for total metal. Laboratory results from total metals testing indicated low levels of arsenic, barium, chromium, nickel and lead. TCLP results on these metals, excluding nickel, indicated only a trace amount of barium (1.3 mg/L), an element which is native in these soils and appears at the same level in the off-base backfill soils used to fill the excavations in this corrective measure. These soils were subsequently removed from the staging area and used as backfill at the SWMU 112 leach field excavation.

A summary of soil sample results is shown in Table 4.2-16. Copies of all analysis results are provided in Appendix IV. All samples for SWMU 62 were labeled for identification in the following manner: CA(SWMU #)/(Sample #)-YY-MMDD-(24-hr time). For example, the SWMU 62 sample No. 7 in this text is identified by the laboratory as CA062/7-97-0314-1136.

Table 4.2-16

SUMMARY OF SWMU 62 SOIL SAMPLE RESULTS

No.	Depth (ft)	Location	PID units	4030 TPH ppm	4030 BTEX ppm	SWA846 8020A BTEX mg/Kg	SWA846 M8015 DRO mg/Kg	SWA846 8260 mg/Kg	SWA846 8270B SOX mg/Kg	TCLP 8 RCRA Metals mg/L
1	3	Sandtrap	ND	<15	NT	NT	NT	NT	NT	NT
2	3	Sandtrap	ND	<15	NT	17[1]	ND	NT	NT	NT
3	3	Sandtrap	8.4	<100	NT	NT	NT	NT	NT	NT
4	3	Sandtrap	8.3	<100	NT	ND	ND	NT	NT	NT
5	4.5	Sandtrap	ND	<100	NT	NT	NT	NT	NT	NT
6	4.5	Sandtrap	ND	<100	NT	NT	NT	NT	NT	NT

SUMMARY OF SWMU 62 SOIL SAMPLE RESULTS										
No.	Depth (ft)	Location	PID units	4030 TPH ppm	4030 BTEX ppm	SWA846 8020A BTEX mg/Kg	SWA846 M8015 DRO mg/Kg	SWA846 8260 mg/Kg	SWA846 8270B SOX mg/Kg	TCLP 8 RCRA Metals mg/L
7	4	Sandtrap	NT	NT	NT	NT	ND	ND	ND	NT[2]
8	2	Sandtrap	ND	< 15	NT	NT	NT	NT	NT	NT
9	n/a	excavated material	0.2	<15	<10	NT	NT	NT	NT	Ba

[1]This is reported as an esimated amount.
[2]TCLP metals was not run for this sample. ICP/SW846 6010 was run (see text).
ND indicates non-detect.
NT indicates not tested.

UNIT DISPOSAL

The concrete from this unit was stockpiled on the abandoned runway site until samples were taken from the botton inside wall of the unit. This sample was mixed with eleven other SWMU unit concrete samples (Nos. 1, 7, 11, 39, 46, 47, 33b, 70, 92, 38 and 112) to form a composite sample for laboratory analysis. The concrete sample was analyzed using TCLP methods for metals, pesticides, volatiles and semivolatiles. The only target analytes found in this sample were low levels of barium (1.2 mg/L) and benzene (0.002 mg/L). The concrete from this unit was disposed of in the City of Clovis Public Landfill in Clovis, New Mexico on December 13, 1996.

PROJECT COSTS

The peripheral costs for SWMU 62 removal and restoration were $7,503.86 and are summarized in Table 4.2-17. The removal and disposal costs, contract bid item No. 40, have been combined with SWMUs 61 and 63.

Table 4.2-17

SWMU 62 CONTRACT QUANTITIES AND COSTS				
Contract Bid Item No.	DESCRIPTION	$/UNIT	QUANTITY	COST ($)
1	Mobilization/Demobilization	16.257/MI	0	0
2	Travel Cost pertaining to construction contract	1957.8/EA	0	0
15	Sawcut concrete	12.93/LF	0	0
16	Concrete removal and disposal	237.38/T	0	0
17	Concrete Replacement	154.82/CY	0	0

SWMU 62 CONTRACT QUANTITIES AND COSTS				
Contract Bid Item No.	DESCRIPTION	$/UNIT	QUANTITY	COST ($)
18	Sawcut Asphalt	1.5/LF	0	0
19	Asphalt removal and disposal	28.88/T	0	0
20	Asphalt replacement	34.96/SY	0	0
25	Waste Oils, Tank Contents, Pump, Transport, Dispose, Recycle and/or Treatment, Complete	5.09/GAL	0	0
26	Hazardous & Dangerous Substances, Tank Contents, Pump, Transport, Dispose and/or Treatment, Complete	56.76/GAL	0	0
27	Contaminated Water, Tank Contents, Pump, Transport, Recycle and/or Dispose, Complete	2.61/GAL	0	0
28	Non-Contaminated Water, Tank Contents, Pump, Transport, Recyclye and/or Dispose, Complete	0.86/GAL	0	0
29	Hazardous Soil, Including Excavation, Transportaion, Treatment, Disposal and Required Backfill Material, Complete	289.15/T	0	0
30	Highly Contaminated Soil, Including Excavation, Transportaion, Treatment, Disposal and Required Backfill Material, Complete	90.75/T	10 T	907.50
33	Soil Sampling & Analysis, Method 8015 Modified (TPH), Complete	189.3/EA	3	567.90
38	Soil Sampling & Analysis, Method 6010 (Total Metals), Complete	539.20/EA	2	1,078.40
40	Remove OWSs,USTs and associated piping, Install new OWSs, all per drawings 0 and C1 through C12	LS	0 (included in SWMU 61)	0
41	Removal and Disposal of Sludge from OWS	113.76/ GAL	12.52 GAL	1,424.28
42	Soil Sampling & Analysis, Total BTEX Rapid Assay or Equivalent (Immunoassay-BTEX), Complete	158.01/EA	1	158.01
43	Soil Sampling & Analysis, Draft Method 4030 (Immunoassay-TPH), Complete	158.01/EA	8	1,264.08

SWMU 62 CONTRACT QUANTITIES AND COSTS				
Contract Bid Item No.	**DESCRIPTION**	**$/UNIT**	**QUANTITY**	**COST ($)**
44	Soil Sampling & Analysis, Method 8260 (VOAs), Complete	375.08/EA	1	375.08
45	Soil Sampling & Analysis, Method 8270 (Semi-VOAs), Complete	619.36/EA	1	619.36
46	Soil Sampling & Analysis, Method 8020 (BTEX), Complete	155.28/EA	2	310.56
47	Case 780D Backhoe, Operator & Laborer, Complete	140.5/HR	0	0
48	Soil Sampling & Analysis, Method 1311 (TCLP), Total Analyte List Metals and SVOCs, Complete	798.69/EA	1	798.69
49	Remove & Dispose of Non-hazardous Sludge from OWS (Partial drums that cannont be filled from another unit shall be paid as full drum)	203.53/ 55-GAL DRUM	0	0
50	Remove & Dispose of Hazardous Sludge from OWS (Partial drums that cannont be filled from another unit shall be paid as full drum)	474.90/ 55-GAL DRUM	0	0
Misc	New Fencing installed at SWMU 94	LS	0	0
TOTAL				**$7,503.86**

SWMU 62 RISK EVALUATION

Site Conceptual Exposure Model

There are three potentially unique mechanisms, or exposure pathways, by which an individual or population would come in contact with a chemical(s) of concern at SWMU 62: direct contact with soil, inhalation of airborne emissions from soil, and domestic use of groundwater on the Base or at the Base boundary. The persons, structures, utilities, surface waters, and water supply wells that are or may be adversely affected by a release at SWMU 62 are the potential receptors. The potential receptors include Base workers (e.g., military and Base personnel, Base contractors, construction workers, Base residents and Base visitors), and residential receptors at the Base boundary downgradient of the SWMU who may use the groundwater.

Comparison of Concentrations in Soil to Risk Based Screening Levels (RBSLs)

The ***EPA Region 6 Human Health Media-Specific Screening Levels,*** dated October 30, 1996, a look-up table, was used to determine whether site conditions satisfy the criteria for recommendation of regulatory closure or warrant a more site-specific evaluation. Maximum detected soil concentrations of volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs) and metals were compared to EPA Region VI risk-based screening levels (RBSLs) for residential soil to evaluate whether a significant release (i.e., capable of posing a risk to human health) has occurred at SWMU 62. EPA Region VI RBSLs were used for the comparison because they are a comprehensive and up-to-date list of RBSLs derived using accepted risk assessment methodology. As noted, Table 4.2-16 shows a summary of VOCs,SVOCs and metals detected in soil samples collected at SWMU 62. Table 4.2-18 delineates the maximum concentrations of metals detected at SWMU 62.

Table 4.2-18

SWMU 62 Maximum Soil Sample Concentrations of Metals						
Sample No.	**Total Metals mg/Kg**		**TCLP Metals mg/L**	**Background Conc. Region VI / Cannon AFB[1] mg/Kg**		**Region VI Residential RBSL mg/Kg**
9	Arsenic	<3.0	<0.40	1.1 - 16.7	3.6	0.32 C
	Barium	53	1.3	430	805	5300 N
7	Chromium	8.4	NT	38	13.3	31 C
9	Nickel	7.5	NT	16	11.4	1500 N
	Lead	6.9	NT	10-18	7.1	400 N

N - noncarcinogenic
C - carcinogenic
T - not tested

[1]CAFB Background Study, 1997

Arsenic was not detected in any of the samples above the total arsenic detectection limit of 3.0

mg/kg, however the detection limit is above the Region VI RBSL of 0.32 mg/kg for carcinogenic arsenic and the RBSL of 2.2 mg/Kg for non-carcinogenic arsenic. The concentration of ≤3.0 mg/kg lies well within the Region VI background range. Since naturally occurring concentrations of arsenic in soils in this region are known to be relatively high and greatly exceed the carcinogenic RBSL of 0.32 mg/kg, it is impractical to impose this RBSL at this site. As an alternative, it is proposed to use ***The Background Investigation, Cannon Air Force Base, New Mexico,*** dated September 1997, value for arsenic in subsurface soils of 3.6 mg/kg.

Among the other metals analyzed, none exceeded the respective Region VI background level or RBSL. In addition, the site is paved and located in an industrial portion of the base. It can be reasonably be asserted, therefore, that no chemicals were detected at concentrations which are likely to pose a potentially significant human health risk based on any future land use scenario for SWMU 62.

Evaluation of the Groundwater Pathway

The depth to groundwater is approximately 240 feet at Cannon AFB (Woodward Clyde, 1992). Additionally site lithology in the vadose zone, including clays and Caliche (calcium carbonate) layers, as well as the asphalt paving over the site, would tend to impede infiltration and dissolved-phase and pure-phase contaminant transport. Organics are much more likely to be transported by dissolved-phase and pure-phase mechanisms than are inorganics. Due to these considerations, unsaturated zone transport was assumed not to be a significant transport mechanism, therefore, the potential risks and hazards associated with groundwater use and ingestion were not considered as a complete in-direct exposure pathway.

Risk Conclusion

The results of the soil investigation following the removal of the oil/water separator at SWMU 62 indicate that no chemical release that poses an unacceptable human health risk for any potential exposure pathway has occurred at this SWMU and, therefore, no further evaluation of this SWMU is warranted.

4.2.7 SWMU 63

UNIT DESCRIPTION

This OWS was located in a grassy area adjacent to the concrete washrack near former building 5077. The unit was a concrete box measuring 10-feet in length, 5-feet-1-inch in width and 4-feet-6-inches in depth. The walls of the unit were 6-inches thick and contained steel reinforcment. The unit functioned as an oil/water separator which received effluent from SWMUs 61 and 62.

After removal of the unit, the washrack area was paved with asphalt as part of a parking lot. A brass cap was placed at the southwest corner to mark its former location. The point was surveyed by Lydick Engineers at New Mexico State Plane Coordinates: North 1238102.78 and East 806078.60.

UNIT REMOVAL

On 20 August 1996, the contents of the unit were removed by a vacuum pump truck and the inside of the unit was cleaned with a high pressure washer. The interior surface of the unit was checked with the PID and no residual contamination was indicated by this instrument. The breathing zone was monitored every fifteen minutes with a photo-ionization detector (PID) and a combustible gas meter. Peak readings on those instruments were 0.0 units on the PID, LEL at $<2\%$ and O_2 at 21%, indicating that level D personal protective equipment was appropriate.

On August 22, 1996, soil was excavated around the unit to a distance of 2 feet and removed to a stockpile area on a designated part of the abandoned runway. Using a backhoe, the unit was removed intact from the excavation, and loaded onto a truck. The truck transported the waste concrete directly from the SWMU 63 site to the Curry County Public Landfill in Clovis, New Mexico, for disposal. The exterior surface of the unit showed no signs of dark staining from the contents leaking. The excavation was filled with clean backfill and compacted to grade. The backfill soils were obtained off-base and were analyzed in the laboratory for TCLP metals. Results of this analyses indicated only a low level of barium (1.3 mg/L).

UNIT CONTENTS

The unit contained approximately 450 gallons of liquids and sediments. The sediments were allowed to separate and both matrices were sampled and sent for laboratory analysis. Laboratory analysis results for this material is reproduced in Appendix I. Results show that this material contained low levels of barium, 2.51 mg/L in the sediments, 0.15 mg/L in the liquids and 0.213 mg/L of 3 & 4 -Methylphenol in the liquids. This material was not a RCRA hazardous waste nor a DOT hazardous material. This material was placed in clean 55-gallon drums and disposed of off-base by Envirosolve Southwest, Inc. in Albuquerque, New Mexico. The disposal documentation for this material is reproduced in Appendix II.

SOIL SAMPLING

Soil samples (Nos. 1 through 4, see fig. 4.2-7) were taken from each of the four vertical sides of the excavation at a depth of 3 feet below ground surface (bgs), and two samples (Nos. 5 and 6) were collected from the bottom of the excavation at a depth of 6.5-feet bgs, for on-site field analysis. After field analysis of these samples using immunoassay method 4030 indicated that the Total Petroleum Hydrocarbon (TPH) content for each sample was below 100 ppm, a confirmatory sample (No. 7), a quality assurance(QA) sample and quality contol (QC) sample were taken from the center of the bottom of the excavation at a depth of 6.5-feet bgs, and sent for laboratory analysis.

A duplicate of Sample No. 5 was submitted for laboratory anlysis of BTEX and TPH. Results indicate agreement with the field screening analysis. Field screening results are reproduced in Appendix III.

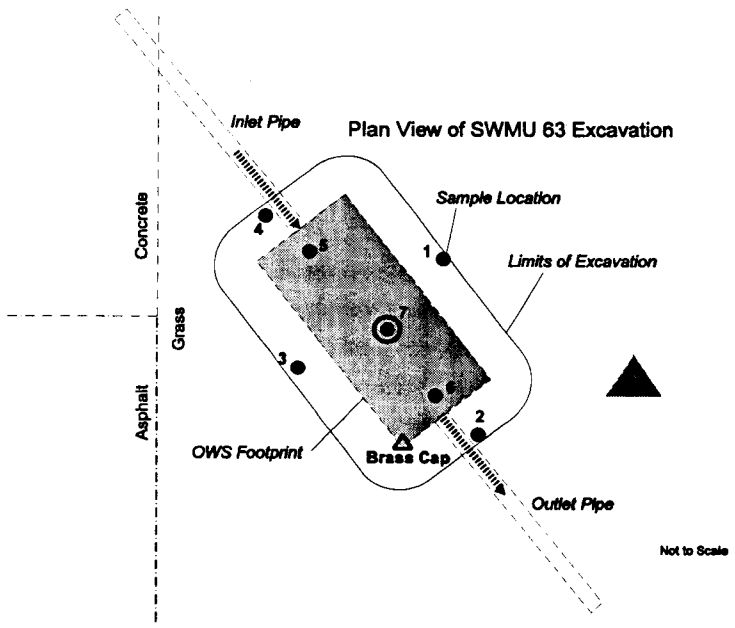

Figure 4.2-7. SWMU 63 Sample Locations

Laboratory results for Sample No. 7 indicate no organics contamination of the soil, confirming the field analysis of the other bottom samples. The QC sample of No. 7 reproduced the same results. The QA sample results show no volatile organic contamination, low-level semivolatile organic contamination (bis(2-ethylhexyl)phthalate at 0.7 mg/Kg) and barium at 2.1 mg/L.

Soils removed from the excavation were observed to contain no petroleum odors and no visual staining. These excavated soils were field tested using the immunoassay method 4030 for TPH and BTEX and results indicated the TPH level was less than 100 ppm and the BTEX level was less than 10 ppm. Laboratory TCLP results indicated only a trace amount of barium (1.2 mg/L), an element which is native in these soils and appears at the same level in the off-base backfill soils used to fill the excavations in this corrective measure. These soils were subsequently removed from the staging area and used as backfill at the SWMU 112 leach field excavation.

A summary of soil sample results is shown in Table 4.2-19. Copies of all analysis results are provided in Appendix IV. All samples for SWMU 63 were labeled for identification in the following manner: CA(SWMU #)/(Sample #)-YY-MMDD-(24-hr time). For example, the SWMU

63 sample No. 7 in this text is identified by the laboratory as CA063/7-97-0314-1136.

Table 4.2-19.

SUMMARY OF SWMU 63 SOIL SAMPLE RESULTS										
No.	Depth (ft)	Location	PID units	4030 TPH ppm	4030 BTEX ppm	SWA846 8020A BTEX mg/Kg	SWA846 M8015 DRO mg/Kg	SWA846 8260 mg/Kg	SWA846 8270B SOX mg/Kg	TCLP 8 RCRA Metals mg/L
1	3	OWS	ND	<15	NT	NT	NT	NT	NT	NT
2	3	OWS	ND	<15	NT	NT	NT	NT	NT	NT
3	3	OWS	ND	<15	NT	NT	NT	NT	NT	NT
4	3	OWS	ND	<15	NT	NT	NT	NT	NT	NT
5	6.5	OWS	ND	< 10 0	NT	ND	ND	NT	NT	NT
6	6.5	OWS	ND	<15	NT	NT	NT	NT	NT	NT
7	6.5	OWS	NT	NT	NT	NT	ND	ND	ND	NT
7 QA	6.5	OWS	NT	NT	NT	NT	NT	ND	ND[1]	Ba
7 QC	6.5	OWS	NT	NT	NT	NT	ND	ND	ND	NT
8	n/a	excavated material	ND	<15	< 10	NT	NT	NT	NT	Ba

[1]Only contaminant identified: bis(2-ethylhexyl)phthalate at 0.7 mg/Kg.
ND indicates non-detect.
NT indicates not tested.

UNIT DISPOSAL

The concrete from this unit was removed from the excavation on August 22, 1996 and transported to the Curry County Public Landfill in Clovis, New Mexico.

PROJECT COSTS

The peripheral costs for SWMU 63 removal and restoration were $10,406.24 and are summarized in Table 4.2-20. The removal and disposal costs, contract bid item No. 40, were combined with SWMUs 61 and 62, and are reported under SWMU 61 costs.

Table 4.2-20

SWMU 63 CONTRACT QUANTITIES AND COSTS				
Contract Bid Item No.	DESCRIPTION	$/UNIT	QUANTITY	COST ($)
1	Mobilization/Demobilization	16.257/MI	0	$ 0
2	Travel Cost pertaining to construction contract	1957.8/EA	0	0
15	Sawcut concrete	12.93/LF	0	0
16	Concrete removal and disposal	237.38/T	0	0
17	Concrete Replacement	154.82/CY	0	0
18	Sawcut Asphalt	1.5/LF	0	0
19	Asphalt removal and disposal	28.88/T	0	0
20	Asphalt replacement	34.96/SY	0	0
25	Waste Oils, Tank Contents, Pump, Transport, Dispose, Recycle and/or Treatment, Complete	5.09/GAL	0	0
26	Hazardous & Dangerous Substances, Tank Contents, Pump, Transport, Dispose and/or Treatment, Complete	56.76/GAL	50 GAL	2,838.00
27	Contaminated Water, Tank Contents, Pump, Transport, Recycle and/or Dispose, Complete	2.61/GAL	450.50 GAL	1,175.81
28	Non-Contaminated Water, Tank Contents, Pump, Transport, Recyclye and/or Dispose, Complete	0.86/GAL	0	0
29	Hazardous Soil, Including Excavation, Transportaion, Treatment, Disposal and Required Backfill Material, Complete	289.15/T	0	0
30	Highly Contaminated Soil, Including Excavation, Transportaion, Treatment, Disposal and Required Backfill Material, Complete	90.75/T	0	0
33	Soil Sampling & Analysis, Method 8015 Modified (TPH), Complete	189.3/EA	3	567.90
38	Soil Sampling & Analysis, Method 6010 (Total Metals), Complete	539.20/EA	3	$ 1,617.60
40	Remove OWSs,USTs and associated piping, Install new OWSs, all per drawings 0 and C1 through C12	LS	0 (included in SWMU 61)	0

SWMU 63 CONTRACT QUANTITIES AND COSTS				
Contract Bid Item No.	**DESCRIPTION**	**$/UNIT**	**QUANTITY**	**COST ($)**
41	Removal and Disposal of Sludge from OWS	113.76/ GAL	0	0
42	Soil Sampling & Analysis, Total BTEX Rapid Assay or Equivalent (Immunoassay-BTEX), Complete	158.01/EA	1	158.01
43	Soil Sampling & Analysis, Draft Method 4030 (Immunoassay-TPH), Complete	158.01/EA	7	1,106.07
44	Soil Sampling & Analysis, Method 8260 (VOAs), Complete	375.08/EA	2	750.16
45	Soil Sampling & Analysis, Method 8270 (Semi-VOAs), Complete	619.36/EA	2	1,238.72
46	Soil Sampling & Analysis, Method 8020 (BTEX), Complete	155.28/EA	1	155.28
47	Case 780D Backhoe, Operator & Laborer, Complete	140.5/HR	0	0
48	Soil Sampling & Analysis, Method 1311 (TCLP), Total Analyte List Metals and SVOCs, Complete	798.69/EA	1	798.69
49	Remove & Dispose of Non-hazardous Sludge from OWS (Partial drums that cannont be filled from another unit shall be paid as full drum)	203.53/ 55-GAL DRUM	0	0
50	Remove & Dispose of Hazardous Sludge from OWS (Partial drums that cannont be filled from another unit shall be paid as full drum)	474.90/ 55-GAL DRUM	0	0
Misc	New Fencing installed at SWMU 94	LS	0	0
TOTAL				**$10,406.24**

SWMU 63 RISK EVALUATION

Site Conceptual Exposure Model

There are three potentially unique mechanisms, or exposure pathways, by which an individual or population would come in contact with a chemical(s) of concern at SWMU 63: direct contact with soil, inhalation of airborne emissions from soil, and domestic use of groundwater on the Base or at the Base boundary. The persons, structures, utilities, surface waters, and water supply wells that are or may be adversely affected by a release at SWMU 63 are the potential receptors. The potential receptors include Base workers (e.g., military and Base personnel, Base contractors, construction workers, Base residents and Base visitors), and residential receptors at the Base boundary downgradient of the SWMU who may use the groundwater.

Comparison of Concentrations in Soil to Risk Based Screening Levels (RBSLs)

The ***EPA Region 6 Human Health Media-Specific Screening Levels,*** dated October 30, 1996, a look-up table, was used to determine whether site conditions satisfy the criteria for recommendation of regulatory closure or warrant a more site-specific evaluation. Maximum detected soil concentrations of volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs) and metals were compared to EPA Region VI risk-based screening levels (RBSLs) for residential soil to evaluate whether a significant release (i.e., capable of posing a risk to human health) has occurred at SWMU 63. EPA Region VI RBSLs were used for the comparison because they are a comprehensive and up-to-date list of RBSLs derived using accepted risk assessment methodology. As noted, Table 4.2-19 shows a summary of VOCs,SVOCs and metals detected in soil samples collected at SWMU 63. Table 4.2-21 delineates the maximum concentrations of metals detected at SWMU 63.

Bis(2-ethylhexyl)phthalate at a concentration of 0.7 mg/kg was detected in Sample No. 7QA, collected at a depth of 6.5 feet bgs. After further data review, it is believed that di-n-butylphthalate is a laboratory contaminant associated with plasticizers commonly found in laboratory equipment. Nine of the 19 SWMUs analyzed during this corrective measure showed di-n-butylphthalate contamination in the method 8270 blank analysis. In any case, the Region VI residential RBSL for this analyte is 32 mg/kg. The relatively low concentration of bis(2-ethylhexyl)phthalate in this sample is well within the Region VI RBSL, and, therefore, protective of human health.

Table 4.2-21

SWMU 63 Maximum Soil Sample Concentrations of Metals						
Sample No.	Total Metals mg/kg		TCLP Metals mg/L	Background Conc. Region VI / Cannon AFB[1] mg/kg		Region VI Residential RBSL mg/kg
7QC	Arsenic	<3.0	<0.40	1.1 - 16.7	3.6	0.32 C
	Barium	202	NT	430	805	5300 N
8	Chromium	7.8	NT	38	13.3	31 C
	Nickel	6.8	NT	16	11.4	1500 N
	Lead	5.9	NT	10-18	7.1	400 N

N - noncarcinogenic
C - carcinogenic
NT - not tested

[1]CAFB Background Study, 1997

Arsenic was not detected in any of the samples above the total arsenic detectection limit of 3.0 mg/kg, however the detection limit is above the Region VI RBSL of 0.32 mg/kg for carcinogenic arsenic and the RBSL of 2.2 mg/Kg for non-carcinogenic arsenic. The concentration of ≤3.0 mg/kg lies well within the Region VI background range. Since naturally occurring concentrations of arsenic in soils in this region are known to be relatively high and greatly exceed the carcinogenic RBSL of 0.32 mg/kg, it is impractical to impose this RBSL at this site. As an alternative, it is proposed to use ***The Background Investigation, Cannon Air Force Base, New Mexico,*** dated September 1997, value for arsenic in subsurface soils of 3.6 mg/kg.

Among the other metals analyzed, none exceeded the respective Region VI residential RBSL. In addition, the site is paved and located in an industrial portion of the base. It can reasonably be asserted, therefore, that no chemicals were detected at concentrations which are likely to pose a potentially significant human health risk based on any future land use scenario for SWMU 63.

Evaluation of the Groundwater Pathway

The depth to groundwater is approximately 240 feet at Cannon AFB (Woodward Clyde, 1992). Additionally site lithology in the vadose zone, including clays and Caliche (calcium carbonate) layers, as well as the asphalt paving over the site, would tend to impede infiltration and dissolved-phase and pure-phase contaminant transport. Organics are much more likely to be transported by dissolved-phase and pure-phase mechanisms than are inorganics. Due to these considerations, unsaturated zone transport was assumed not to be a significant transport mechanism, therefore, the potential risks and hazards associated with groundwater use and ingestion were not considered as a complete in-direct exposure pathway.

Risk Conclusion

The results of the soil investigation following the removal of the oil/water separator at SWMU 63 indicate that no chemical release that poses an unacceptable human health risk for any potential exposure pathway has occurred at this SWMU and, therefore, no further evaluation of this SWMU is warranted.

4.2.8 SWMU 70

UNIT DESCRIPTION

SWMU 70 consisted of an oil/water separator (OWS) and a 220-gallon underground storage tank (UST), both located in a grassy area near the northwest corner of Building 326. The OWS was constructed of steel and consisted of a two-compartment underground unit with a 50-gallon oil separator compartment and a detached UST. The OWS measured about 1.5 feet by 2 feet in plan and extended about 6 feet below the ground surface. The UST was strapped to a 4-foot by 7-foot concrete pad that was constructed about 7 feet below the top of the concrete sidewalk. The OWS had been active since 1960. The OWS received wash water generated from JP-4 fuel truck maintenance operations. The recovered petroleum products were directed to the UST and the wastewater was discharged to a leach well. The leach well consisted of a 5-foot-diameter by 5-foot-deep gravel-filled dry well.

At the time of this action, the leach well had been evacuated and a bioventing unit was inplace and operating to remediate soils contaminated by the leach well. The contractor exercised due caution to perform the removals of the OWS and the UST so that the bioventing system was left in place to continue remediation.

A brass cap was placed at the southeast corner of where the OWS unit was located as shown in Figure 4.2-8. The point was surveyed by Lydeck Engineering at New Mexico State Plane Coordinates: North 1238856.96 and East 806730.82.

UNIT REMOVAL

The OWS and the UST had been filled with sand prior to this corrective measure. Some of the sand was removed from the OWS before it was pulled out of the excavation, but the narrow cavity of the OWS made full removal by hand impossible. The OWS was pulled from the excavation on September 6, 1996 and placed in the staging area on the abandoned runway. Air monitoring at 15-minute intervals indicated a peak reading of 2.2 ppm on the photo-ionization detector (PID), and strong fuel odors were observed. In response, field personnel dressed in level C personal protective equipment. The sand contents and the excavated soils were segregated at the staging area and sampled separately.

The UST was excavated and removed on September 9, 1996 with field personnel in Level C protection. Air monitoring at 15-minute intervals indicated a peak reading of 0.0 ppm on the PID. The slab beneath the UST was not removed due to concern that its removal would damage the bioventing system. Two four-inch-diameter holes were punched through the slab so that soil samples could be taken beneath the slab. The UST and the excavated soils associated with it were removed to separate areas of the staging area on the old abandoned runway.

The excavation was backfilled and compacted on September 10 and 11, 1996. Air monitoring at 15-minute intervals indicated a peak reading of 0.1 ppm on the PID.

UNIT CONTENTS

Approximately 1 cubic yards of sand were removed from the OWS. Approximately 1 cubic yard of sand was removed from the UST. The sand was sampled and sent for laboratory analysis of TCLP Metals. Laboratory analysis results for this material is reproduced in Appendix I. Results show that this material contained barium at 1.0 mg/L, cadmium at 0.017 mg/L and lead at 0.15 mg/L. Each of these levels is below the maximum concentration for the toxicity characteristic. This material was not a RCRA hazardous waste nor a DOT hazardous material. The sand was disposed of off-base by Envirosolve Southwest, Inc., Albuquerque, New Mexico. The disposal documentation for this material is reproduced in Appendix II.

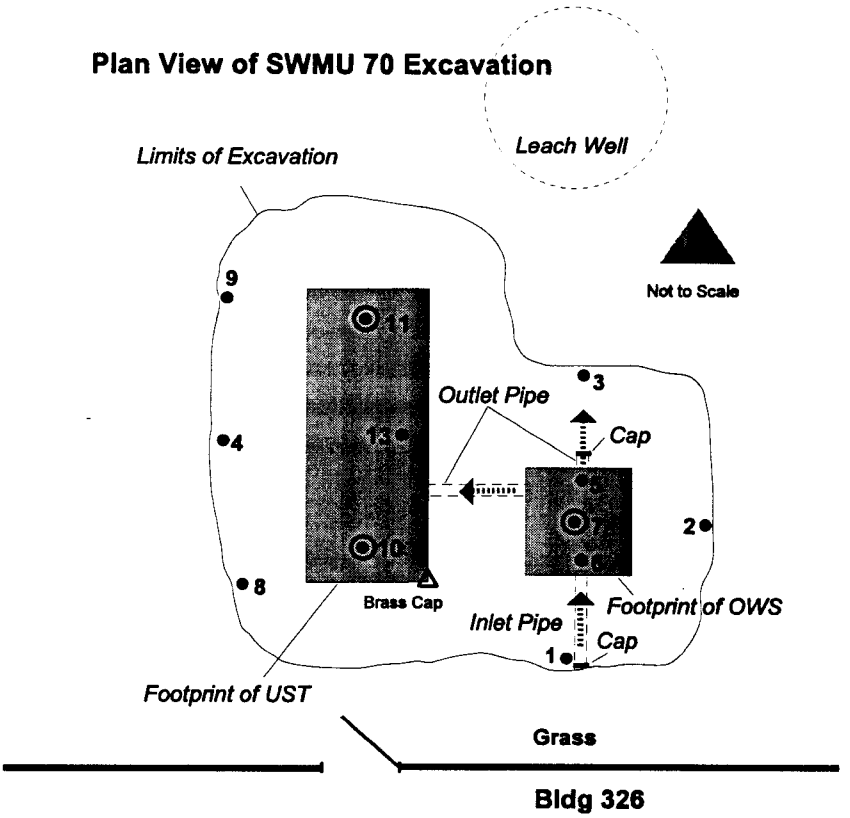

Figure 4.2-8. SWMU 70 Sample Locations

SOIL SAMPLING

Soil samples (Nos. 1 through 3 as shown in Fig. 4.2-8) were taken from the vertical sidewalls of the OWS excavation at a depth of 3-feet below ground surface (bgs). Two samples (sample Nos. 5 and 6) were collected from the bottom of the excavation within the footprint of the OWS unit, at a depth of 5.5 feet bgs. Sample Nos. 1-3, 5 and 6 were taken for on-site field analysis using immunoassay method 4030. After field analysis of these samples, a confirmatory sample (No. 7) was taken from the center of the bottom of the OWS excavation at a depth of 5.5 feet bgs, and sent for laboratory analysis. A duplicate of sample No. 3 was submitted for laboratory analysis to correlate field results with laboratory results. Field sampling results are reproduced in Appendix III.

Laboratory results for Sample No. 7 indicate levels of ethylbenzene at 0.067 mg/Kg, para-,meta-xylenes at 5.6 mg/Kg, ortho-xylene at 1.4 mg/Kg, naphthalene at 2.0 mg/Kg., 2-methylnaphthalene at 3.2 mg/Kg, 1-methylnaphthalene at 3.2 mg/Kg and barium at 2.7 mg/L.

Laboratory results for Sample No. 3 confirmed significant TPH concentrations found by the field analysis.

Soil sample No. 4 was taken from the bottom of the west vertical sidewall of the UST excavation at a depth of 3-feet below ground surface (bgs), and two samples (Nos. 8 and 9) were taken from the bottom of the west vertical sidewall of the UST excavation at a depth of 8-feet bgs. Sample No. 13 was collected from the bottom of the excavation within the footprint of the UST, at a depth of 8 feet bgs. After field analysis of these samples using immunoassay method 4030, two confirmatory samples (Nos. 10 and 11) were taken from the each end of the UST footprint at a depth of 10 feet bgs, and sent for laboratory analysis.

Laboratory results for Sample Nos. 10 and 11 indicate no significant levels of organics or TCLP metals. Barium at 1.5 mg/L and 1.6 mg/Kg, respectively, were found in these samples, but are below the maximum concentration for barium for toxicity characteristic. Sample No. 11 was found to contain di-n-butylphthalate at 27 mg/Kg, and bis(2-ethylhexyl)phthalate at 9.6 mg/Kg, however, these may be laboratory contaminants.

Sample No. 12 was taken as a composite from the excavated soils and submitted for TCLP RCRA 8 metals analysis. Laboratory results indicated no metals contamination, except barium at 1.5 mg/L. These excavated soils were subsequently removed from the staging area and disposed of off base by Stephens Construction at the Gandy Marley, Inc. facility in Tatum, New Mexico.

Soil sample Nos. 14 and 15 were taken from the sands that filled the OWS and the UST, respectively, and were submitted for laboratory analysis. Laboratory results indicate a barium level of 1.5 mg/L in No. 14 and barium at 1.0 mg/Kg, cadmium at 0.017 mg/L and lead at 0.15 mg/L in No. 15. All these metal levels are below the maximum concentration for the toxicity characteristic. The sands from both units were combined with the excavated soils and disposed of together.

A summary of soil sample results is shown in Table 4.2-22. Copies of laboratory analysis results for soils are reproduced in Appendix IV. All samples for SWMU 70 were labeled for identification in the following manner: CA(SWMU #)/(Sample #)-YY-MMDD-(24-hr time). For example, the SWMU 70 sample No. 7 in this text is identified by the laboratory as CA070/7-97-0314-1136.

Table 4.2-15

SUMMARY OF SWMU 70 SOIL SAMPLE RESULTS

No.	Depth (ft)	Location	PID (units)	4030 TPH ppm	4030 BTEX ppm	SWA846 8020A BTEX mg/Kg	SWA846 M8015 DRO mg/Kg	SWA846 8260 mg/Kg	SWA846 8270B SOX mg/Kg	TCLP Metals 6011 mg/Kg
1	3	OWS	25.0	>100	<300	NT	NT	NT	NT	NT
2	3	OWS	0.6	<15	<50	NT	NT	NT	NT	NT

SUMMARY OF SWMU 70 SOIL SAMPLE RESULTS										
No.	Depth (ft)	Location	PID (units)	4030 TPH ppm	4030 BTEX ppm	SWA846 8020A BTEX mg/Kg	SWA846 M8015 DRO mg/Kg	SWA846 8260 mg/Kg	SWA846 8270B SOX mg/Kg	TCLP Metals 6011 mg/Kg
3	3	OWS	68.1	>100	>300	0.351[1]	870	NT	NT	NT
4	3	UST	2.1	>100	<50	NT	NT	NT	NT	NT
5	5.5	OWS	102.1	>100	>300	NT	NT	NT	NT	NT
6	5.5	OWS	86.1	>100	>300	NT	NT	NT	NT	NT
7	5.5	OWS	NT	NT	NT	NT	1500	[2]	[3]	Ba
8	8	UST	4.6	<15	<50	NT	NT	NT	NT	NT
9	8	UST	2.9	<15	<50	NT	NT	NT	NT	NT
10	10	UST	NT	NT	NT	NT	ND	ND	ND	Ba
11	10	UST	NT	NT	NT	NT	ND	ND	ND[4]	Ba
12	n/a	excavated material	1.7	<15	<10	NT	NT	NT	NT	Ba
13	8	UST	0.3	<15	<10	NT	NT	NT	NT	NT
14	n/a	OWS-sand	NT	<15	NT	NT	NT	NT	NT	Ba
15	n/a	UST-sand	NT	>100	NT	NT	NT	NT	NT	Ba,Cd, Pb

[1]Contaminants identified: Toluene at 0.097 mg/Kg, P-&m-Xylene at 0.2 mg/Kg, and O-Xylene at 0.054 mg/Kg.
[2]Contaminants identified: Ethylbenzene at 0.067 mg/Kg, P/M Xylene at 5.6 mg/Kg, and O-Xylene at 1.4 mg/Kg.
[3]Contaminants identified: Naphthalene at 2.0 mg/Kg, 2-Methylnaphthalene at 3.2 mg/Kg, and 1-Methylnaphthalene at 3.2 mg/Kg.
[4]Only contaminants identified: Di-n-butylphthalate at 27 mg/Kg, and bis(2-Ethylhexyl)phthalate at 9.6 mg/Kg.
ND indicates non-detect, or below detection limit.
NT indicates not tested.

UNIT DISPOSAL

The UST was cut into four pieces. Both the UST and the OWS steel units were delivered to Anderson Recycling Center, 511 South Prince Street, Clovis, New Mexico, on December 23, 1996.

PROJECT COSTS

The total cost for SWMU 70 removal and restoration were $27,015.41 and are summarized in Table 4.2-23.

Table 4.2-23

SWMU 70 CONTRACT QUANTITIES AND COSTS				
Contract Bid Item No.	DESCRIPTION	$/UNIT	QUANTITY	COST ($)
1	Mobilization/Demobilization	16.257/MI	0	$ 0
2	Travel Cost pertaining to construction contract	1957.8/EA	0	0
15	Sawcut concrete	12.93/LF	0	0
16	Concrete removal and disposal	237.38/T	8.21 T	1,948.89
17	Concrete Replacement	154.82/CY	1.75 CY	270.94
18	Sawcut Asphalt	1.5/LF	0	0
19	Asphalt removal and disposal	28.88/T	0	0
20	Asphalt replacement	34.96/SY	0	0
25	Waste Oils, Tank Contents, Pump, Transport, Dispose, Recycle and/or Treatment, Complete	5.09/GAL	0	0
26	Hazardous & Dangerous Substances, Tank Contents, Pump, Transport, Dispose and/or Treatment, Complete	56.76/GAL	0	0
27	Contaminated Water, Tank Contents, Pump, Transport, Recycle and/or Dispose, Complete	2.61/GAL	0	0
28	Non-Contaminated Water, Tank Contents, Pump, Transport, Recyclye and/or Dispose, Complete	0.86/GAL	0	0
29	Hazardous Soil, Including Excavation, Transportaion, Treatment, Disposal and Required Backfill Material, Complete	289.15/T	0	0
30	Highly Contaminated Soil, Including Excavation, Transportaion, Treatment, Disposal and Required Backfill Material, Complete	90.75/T	1.08 T	98.01
33	Additional Soil Sampling & Analysis, Method 8015 Modified (TPH), Complete	189.3/EA	8	1,514.40

SWMU 70 CONTRACT QUANTITIES AND COSTS				
Contract Bid Item No.	**DESCRIPTION**	**$/UNIT**	**QUANTITY**	**COST ($)**
38	Additional Soil Sampling & Analysis, Method 6010 (Total Metals), Complete	539.20/EA	6	$ 3,235.20
40	Remove OWSs,USTs and associated piping, Install new OWSs, all per drawings 0 and C1 through C12	LS	1	7,944.00
41	Removal and Disposal of Sludge from OWS	113.76/ GAL	0	0
42	Soil Sampling & Analysis, Total BTEX Rapid Assay or Equivalent (Immunoassay-BTEX), Complete	158.01/EA	12	1,896.12
43	Soil Sampling & Analysis, Draft Method 4030 (Immunoassay-TPH), Complete	158.01/EA	12	1,896.12
44	Soil Sampling & Analysis, Method 8260 (VOAs), Complete	375.08/EA	3	1,125.24
45	Soil Sampling & Analysis, Method 8270 (Semi-VOAs), Complete	619.36/EA	3	1,858.08
46	Soil Sampling & Analysis, Method 8020 (BTEX), Complete	155.28/EA	1	155.28
47	Case 780D Backhoe, Operator & Laborer, Complete	140.5/HR	2	281.00
48	Soil Sampling & Analysis, Method 1311 (TCLP), Total Analyte List Metals and SVOCs, Complete	798.69/EA	6	4,792.14
49	Remove & Dispose of Non-hazardous Sludge from OWS (Partial drums that cannont be filled from another unit shall be paid as full drum)	203.53/ 55-GAL DRUM	0	0
50	Remove & Dispose of Hazardous Sludge from OWS (Partial drums that cannont be filled from another unit shall be paid as full drum)	474.90/ 55-GAL DRUM	0	0
Misc	New Fencing installed at SWMU 94	LS	0	0
TOTAL				**$27,015.41**

SWMU 70 RISK EVALUATION

Site Conceptual Exposure Model

There are three potentially unique mechanisms, or exposure pathways, by which an individual or population would come in contact with a chemical(s) of concern at SWMU 70: direct contact with soil, inhalation of airborne emissions from soil, and domestic use of groundwater on the Base or at the Base boundary. The persons, structures, utilities, surface waters, and water supply wells that are or may be adversely affected by a release at SWMU 70 are the potential receptors. The potential receptors include Base workers (e.g., military and Base personnel, Base contractors, construction workers, Base residents and Base visitors), and residential receptors at the Base boundary downgradient of the SWMU who may use the groundwater.

Comparison of Concentrations in Soil to Risk Based Screening Levels (RBSLs)

The ***EPA Region 6 Human Health Media-Specific Screening Levels,*** dated October 30, 1996, a look-up table, was used to determine whether site conditions satisfy the criteria for recommendation of regulatory closure or warrant a more site-specific evaluation. Maximum detected soil concentrations of volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs) and metals were compared to EPA Region VI risk-based screening levels (RBSLs) for residential soil to evaluate whether a significant release (i.e., capable of posing a risk to human health) has occurred at SWMU 70. EPA Region VI RBSLs were used for the comparison because they are a comprehensive and up-to-date list of RBSLs derived using accepted risk assessment methodology. As noted, Table 4.2-22 shows a summary of VOCs,SVOCs and metals detected in soil samples collected at SWMU 70. Table 4.2-24 delineates the maximum concentrations of metals detected at SWMU 70.

The volatile organic compounds (VOCs), ethylbenzene, p-, m- xylene and o-xylene were detected in Sample No. 7 at a depth of 5.5 feet bgs at concentrations of 0.067 mg/Kg, 5.6 mg/Kg and 1.4 mg/Kg, respectively. The Region VI residential RBSLs for these analytes are 2900 mg/Kg, 980 mg/Kg and 980 mg/Kg, respectively. The relatively low concentrations of the VOCs in this sample are well within the Region VI RBSLs, and, therefore, protective of human health.

The semivolatile organic compounds (SVOCs), naphthalene, 2-methylnaphthalene and 1-methylnaphthalene were detected in Sample No. 7 at a depth of 5.5 feet bgs at concentrations of 2.0 mg/Kg, 3.2 mg/Kg and 3.2 mg/Kg, respectively. The Region VI residential RBSL for naphthalene is 800 mg/Kg. The relatively low concentration of this SVOC in this sample is well within the Region VI RBSL, and, therefore, protective of human health. No listing was found in the Region VI Human Health Media-Specific Screening Levels for the methylnaphthalenes. The low concentrations detected and the structural similarity to naphthalene, however, may allow some comparison of these compounds with the RBSL of 800 mg/Kg developed for naphthalene to achieve a similar level of human health protection.

The SVOCs, di-n-butylphthalate and bis(2-ethylhexyl)phthalate were detected in Sample No. 11 at a depth of 10 feet bgs, at concentrations of 27mg/kg and 9.6 mg/kg, respectively.

Dibutylphthalate has a Region VI non-carcinogenic listing of 6500 mg/kg for residential soils. Di-n-butylphthalate was also found in the laboratory method blank for this sample. After further data review, it is believed that the di-n-butylphthalate found in this sample is a laboratory contaminant associated with plasticizers commonly found in laboratory equipment. Nine of the 19 SWMUs analyzed during this corrective measure showed di-n-butylphthalate contamination in the method 8270 blank analysis. The Region VI RBSL for bis(2-ethylhexyl)phthalate, a carcinogen, is 32 mg/Kg. The low concentrations of di-n-butylphthalate and bis(2-ethylhexyl)phthalate in this sample should not violate protective standards for human health at this site.

Table 4.2-24

SWMU 70 Maximum Soil Sample Concentrations of Metals						
Sample No.	**Total Metals mg/Kg**		**TCLP Metals mg/L**	**Background Conc. Region VI / Cannon AFB[1] mg/Kg**		**Region VI Residential RBSL mg/Kg**
7QC	Arsenic	<3.0	<0.40	1.1 - 16.7	3.6	0.32 C
	Barium	202	NT	430	805	5300 N
8	Chromium	7.8	NT	38	13.3	31 C
	Nickel	6.8	NT	16	11.4	1500 N
	Lead	5.9	NT	10-18	7.1	400 N

N - noncarcinogenic
C - carcinogenic
NT - not tested

[1]CAFB Background Study, 1997

Arsenic was not detected in any of the samples above the total arsenic detectection limit of 3.0 mg/kg, however the detection limit is above the Region VI RBSL of 0.32 mg/kg for carcinogenic arsenic and the RBSL of 2.2 mg/Kg for non-carcinogenic arsenic. The concentration of ≤3.0 mg/kg lies well within the Region VI background range. Since naturally occurring concentrations of arsenic in soils in this region are known to be relatively high and greatly exceed the carcinogenic RBSL of 0.32 mg/kg, it is impractical to impose this RBSL at this site. As an alternative, it is proposed to use ***The Background Investigation, Cannon Air Force Base, New Mexico,*** dated September 1997, value for arsenic in subsurface soils of 3.6 mg/kg.

Among the metal analytes tested, no other exceeds the respective Region VI RBSL. The site is paved and located in an industrial portion of the base. It can be reasonably asserted, therefore, that no chemicals were detected at concentrations which are likely to pose a potentially significant human health risk based on any future land use scenario for SWMU 70.

Evaluation of the Groundwater Pathway

The depth to groundwater is approximately 240 feet at Cannon AFB (Woodward Clyde, 1992). Additionally site lithology in the vadose zone, including clays and Caliche (calcium carbonate) layers, as well as the asphalt paving over the site, would tend to impede infiltration and dissolved-phase and pure-phase contaminant transport. Organics are much more likely to be transported by dissolved-phase and pure-phase mechanisms than are inorganics. Due to these considerations, unsaturated zone transport was assumed not to be a significant transport mechanism, therefore, the potential risks and hazards associated with groundwater use and ingestion were not considered as a complete in-direct exposure pathway.

Risk Conclusion

The results of the soil investigation following the removal of the oil/water separator at SWMU 70 indicate that no chemical release that poses an unacceptable human health risk for any potential exposure pathway has occurred at this SWMU and, therefore, no further evaluation of this SWMU is warranted.

4.2.9 SWMU 92

UNIT DESCRIPTION

This unit was located in a grassy area east of former Power Check Pad No. 5120. This check pad was dismantled in 1988. The OWS was a two-compartment unit with a detached 200-gallon oil storage tank and a leach well. The OWS was a concrete box measuring 4-feet in width, 6-feet in length, and 8-feet in depth. The UST lay within two feet of the OWS. A leach well was located about 40 feet to the east of the OWS and the UST. The leach well consisted of a 3-foot long by 4-inch diameter, vertical steel pipe set into a bottomless concrete box measuring 5-feet-4-inches square and 3-feet deep. The 4-inch pipe extended from the ground surface until it entered the concrete box, a distance of about 3 feet. The unit was active from approximately 1957 to 1988.

A brass cap was placed at the southwest corner of where the unit was located as shown in Figure 4.2-9. The point was surveyed by Lydick Engineers at New Mexico State Plane Coordinates: North 1230405.97 and East 808361.66.

UNIT REMOVAL

The contents of the OWS were removed by a vacuum pump truck on October 7, 1996. The unit was cleaned with a high pressure washer on October 8, 1996. The breathing zone was monitored at a peak level of 0.1 units with the PID, <2% LEL and oxygen at 21% with the CGI. Field personnel were dressed in level C personal protective equipment.

On October 15, 1996, two feet of soil were excavated from the sides and the bottom of the unit and the OWS and UST were removed from the excavation and stored on the abandoned runway. The OWS was visually inspected and was found to have no dark stains on the exterior surface walls which might indicate that the OWS had leaked into the surrounding soil. The UST was also visually inspected and found to be in very good condition with no visual evidence that the UST had ever leaked. The excavation was shored for safety. The breathing zone was monitored at a peak level of 0.0 units with the PID, <2% LEL and oxygen at 21% with the CGI.

On October 16, the leach well box was removed from the leach well. The area below the box contained 3-inch-to-4 inch-diameter cobble stones to a depth of about 5 feet. The leach well excavation measured about 10-feet in diameter and 11-feet deep. The cobbles and soil that were removed from the excavation were dry, were not stained, nor were any fuel odors observed. Samples were taken and the area was backfilled with the same material as used for the UST and OWS area. The cobble stone in the leach well extended laterally and vertically beyond the excavation. Only that portion of the cobbles that was exposed in the excavation to a depth of 2 feet below the box were removed and the remainder was left in place.

The excavation was filled with clean backfill and compacted to grade. The backfill soils were obtained off-base and were analyzed in the laboratory for TCLP metals. Results of this analyses indicated only a low level of barium (1.3 mg/L).

UNIT CONTENTS

The OWS unit contained approximately 40.3 gallons of liquid and 26 gallons of sludge. The sludge and liquid were sampled and sent for laboratory analysis. Laboratory analysis results for this material is reproduced in Appendix I. Results show that this material was not a RCRA hazardous waste nor a DOT hazardous material. The material was disposed of off base by Envirosolve Southwest, Inc.. The disposal documentation for this material is reproduced in Appendix II.

The UST contained about 5 gallons of water which had no visual sheen, nor any odors associated with it. The water was accidentally released on the ground near the excavation during removal.

SOIL SAMPLING

Samples 1 through 6 (see fig. 4.2-9) were taken from the OWS and UST excavation for on-site field analysis using immunoassay method 4030 and headspace analysis using a photo-ionization detector (PID). Samples 1 through 4 were taken nine feet below ground level from the side walls. Sample 5 and 6 were taken from the bottom of the excavation at 10 feet bgs. Field sampling results are reproduced in Appendix III.

Duplicates of samples Nos. 2 and sample 6 were sent for laboratory analysis to correlate with field results. Sample 7 was taken from the bottom of the excavation and sent to the laboratory for analysis.

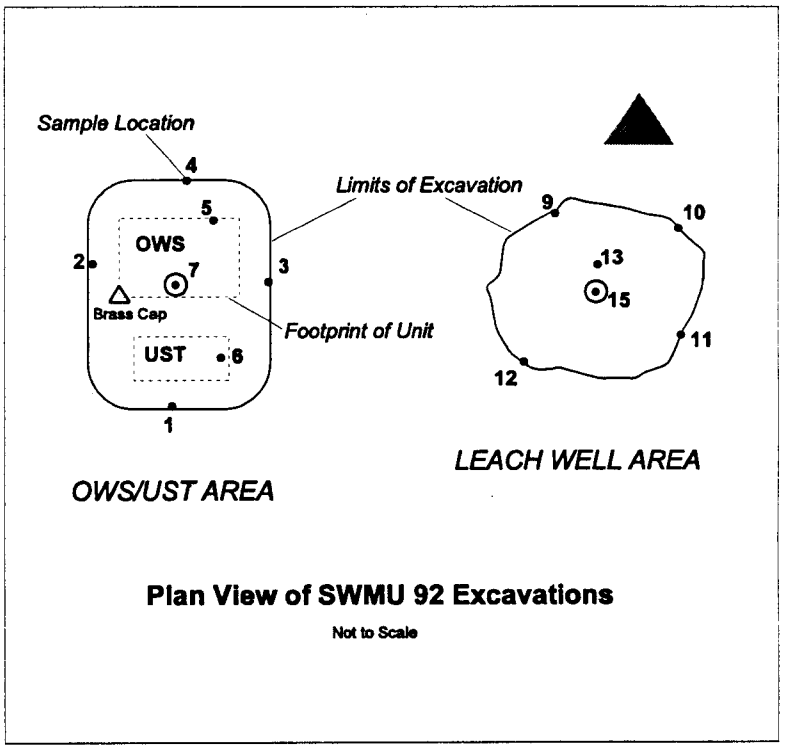

Fig. 4.2-9. SWMU 92 Sample Locations

Laboratory results of sample Nos. 2 and 6 indicated good corellation with field analysis, and that BTEX and diesel range organics are not present in these soils.

Laboratory results for sample No. 7 reported a semi-volatile level for di-n-butylphthalate of 25 mg/Kg and a barium level of 1.6 mg/Kg. The di-n-butylphthalate was also found in the laboratory method blank, indicating that it is a laboratory contaminant, and may not be present in the soils.

Sample No. 8 was taken from excavated material in the OWS-UST area and was field screened using the immunoassay method 4030. A duplicate of No. 8 was submitted for TCLP metals

analysis. Sample No. 8 results show no BTEX, TPH contamination, and a barium level of 1.2 mg/L.

Samples Nos 9 through 12 were field screened samples taken from the sidewalls of the leach well excavation at 11 feet bgs, and Sample No. 13 was takekn from the sidewalls at 12 feet bgs.. Field screening results for all samples indicated TPH levels less than 100 ppm. Sample No. 15 was taken from the center of the excavation and sent in for laboratory analysis . Laboratory results indicated a di-n-butylphthalate level of 30 mg/Kg and a barium level of 1.2 mg/L. The phthalate is a common laboratory contaminant and was also found in the method blank for this sample. Sample No. 15 results show no significant levels of organics or heavy metals.

Sample No. 14 was taken from excavated material in the Leach Well area and was field screened using the immunoassay method 4030. A duplicate of No. 14 was submitted for TCLP metals analysis. Sample No. 14 results show no BTEX, TPH contamination, and a barium level of 1.2 mg/L.

A summary of soil sample results is shown in Table 4.2-25. Copies of laboratory analysis results for soils are provided in Appendix IV. All samples for SWMU 92 were labeled for identification in the following manner: CA(SWMU #)/(Sample #)-YY-MMDD-(24-hr time). For example, the SWMU 92 sample No. 7 in this text is identified by the laboratory as CA092/7-97-0314-1136.

Table 4.2-25.

SUMMARY OF SWMU 92 SOIL SAMPLE RESULTS

No.	Depth (ft)	Location	PID (units)	4030 TPH ppm	4030 BTEX ppm	SWA846 8020A BTEX mg/Kg	SWA846 M8015 DRO mg/Kg	SWA846 8260 mg/Kg	SWA846 8270B SOX mg/Kg	TCLP Metals mg/L
1	9	UST/ OWS	ND	<15	<10	NT	NT	NT	NT	NT
2	9	OWS	ND	<15	<50	ND	ND	NT	NT	NT
3	9	OWS	ND	<15	<10	NT	NT	NT	NT	NT
4	9	OWS	ND	<15	<50	NT	NT	NT	NT	NT
5	9	OWS	ND	<15	<50	NT	NT	NT	NT	NT
6	10	UST	ND	<15	<50	ND	ND	NT	NT	NT
7	10	OWS	NT	NT	NT	NT	ND	ND	ND[1]	Ba
8	n/a	excavated soils	ND	<15	<10	NT	NT	NT	NT	Ba

SUMMARY OF SWMU 92 SOIL SAMPLE RESULTS										
No.	Depth (ft)	Location	PID (units)	4030 TPH ppm	4030 BTEX ppm	SWA846 8020A BTEX mg/Kg	SWA846 M8015 DRO mg/Kg	SWA846 8260 mg/Kg	SWA846 8270B SOX mg/Kg	TCLP Metals mg/L
9	11	leach well	ND	<15	<10	NT	NT	NT	NT	NT
10	11	leach well	ND	<15	<10	NT	NT	NT	NT	NT
11	11	leach well	ND	<15	<10	NT	NT	NT	NT	NT
12	11	leach well	ND	<15	<10	NT	NT	NT	NT	NT
13	12	leach well	ND	<15	<10	NT	NT	NT	NT	NT
14	n/a	excavated soils	ND	<15	<10	NT	NT	NT	NT	Ba
15	10	leach well	NT	NT	NT	NT	ND	ND	ND[2]	Ba

[1]Only contaminant identified: Di-n-butylphthalate at 25 mg/Kg found in sample and laboratory method blank.
[2]Only contaminant identified: Di-n-butylphthalate at 30 mg/Kg found in sample and laboratory method blank.
ND indicates non-detect
NT indicates not tested

UNIT DISPOSAL

The concrete from the OWS unit and the leach well cap were stockpiled on the abandoned runway site until samples were taken from the bottom inside walls. These samples were mixed with nine other SWMU unit concrete samples to form a composite sample for laboratory analysis. The concrete sample was analyzed using TCLP method for metals, pesticides, volatiles and semivolatiles. Results of this analysis indicated that no significant contamination was present, and the TCLP results were negative. The concrete from this unit was disposed of in the City of Clovis Public Landfill in Clovis, New Mexico on November 19, 1996.

The UST was cut into four parts and delivered to Anderson Recycling Center, 511 South Prince Street, Clovis, New Mexico, on December 23, 1996.

PROJECT COSTS

The contract costs for this corrective measure were $34,240.72, and are summarzied in Table 4.2-26.

Table 4.2-26

SWMU 92 CONTRACT QUANTITIES AND COSTS				
Contract Bid Item No.	DESCRIPTION	$/UNIT	QUANTITY	COST ($)
1	Mobilization/Demobilization	16.257/MI	0	$ 0
2	Travel Cost pertaining to construction contract	1957.8/EA	0	0
15	Sawcut concrete	12.93/LF	0	0
16	Concrete removal and disposal	237.38/T	5.68 T	1,348.32
17	Concrete Replacement	154.82/CY	0	0
18	Sawcut Asphalt	1.5/LF	0	0
19	Asphalt removal and disposal	28.88/T	0	0
20	Asphalt replacement	34.96/SY	0	0
25	Waste Oils, Tank Contents, Pump, Transport, Dispose, Recycle and/or Treatment, Complete	5.09/GAL	0	0
26	Hazardous & Dangerous Substances, Tank Contents, Pump, Transport, Dispose and/or Treatment, Complete	56.76/GAL	0	0
27	Contaminated Water, Tank Contents, Pump, Transport, Recycle and/or Dispose, Complete	2.61/GAL	40.30	105.18
28	Non-Contaminated Water, Tank Contents, Pump, Transport, Recyclye and/or Dispose, Complete	0.86/GAL	0	0
29	Hazardous Soil, Including Excavation, Transportaion, Treatment, Disposal and Required Backfill Material, Complete	289.15/T	0	0
30	Highly Contaminated Soil, Including Excavation, Transportaion, Treatment, Disposal and Required Backfill Material, Complete	90.75/T	0	0
33	Soil Sampling & Analysis, Method 8015 Modified (TPH), Complete	189.3/EA	4	757.20
38	Sampling & Analysis, Method 6010 (Total Metals), Complete	539.20/EA	4	2,156.80
40	Remove OWSs,USTs and associated piping, Install new OWSs, all per drawings 0 and C1 through C12	LS	1	16,751.00

SWMU 92 CONTRACT QUANTITIES AND COSTS				
Contract Bid Item No.	**DESCRIPTION**	**$/UNIT**	**QUANTITY**	**COST ($)**
41	Removal and Disposal of Sludge from OWS	113.76/ GAL	26 GAL	$2,957.76
42	Soil Sampling & Analysis, Total BTEX Rapid Assay or Equivalent (Immunoassay-BTEX), Complete	158.01/EA	13	2,054.13
43	Soil Sampling & Analysis, Draft Method 4030 (Immunoassay-TPH), Complete	158.01/EA	13	2,054.13
44	Soil Sampling & Analysis, Method 8260 (VOAs), Complete	375.08/EA	2	750.16
45	Soil Sampling & Analysis, Method 8270 (Semi-VOAs), Complete	619.36/EA	2	1,238.72
46	Soil Sampling & Analysis, Method 8020 (BTEX), Complete	155.28/EA	2	310.56
47	Case 780D Backhoe, Operator & Laborer, Complete	140.5/HR	4	562.00
48	Soil Sampling & Analysis, Method 1311 (TCLP), Total Analyte List Metals and SVOCs, Complete	798.69/EA	4	3,194.76
49	Remove & Dispose of Non-hazardous Sludge from OWS (Partial drums that cannont be filled from another unit shall be paid as full drum)	203.53/ 55-GAL DRUM	0	0
50	Remove & Dispose of Hazardous Sludge from OWS (Partial drums that cannont be filled from another unit shall be paid as full drum)	474.90/ 55-GAL DRUM	0	0
Misc	New Fencing installed at SWMU 94	LS	0	0
TOTAL				**$34,240.72**

SWMU 92 RISK EVALUATION

Site Conceptual Exposure Model

There are three potentially unique mechanisms, or exposure pathways, by which an individual or population would come in contact with a chemical(s) of concern at SWMU 92: direct contact with soil, inhalation of airborne emissions from soil, and domestic use of groundwater on the Base or at the Base boundary. The persons, structures, utilities, surface waters, and water supply wells that are or may be adversely affected by a release at SWMU 92 are the potential receptors. The potential receptors include Base workers (e.g., military and Base personnel, Base contractors, construction workers, Base residents and Base visitors), and residential receptors at the Base boundary downgradient of the SWMU who may use the groundwater.

Comparison of Concentrations in Soil to Risk Based Screening Levels (RBSLs)

The ***EPA Region 6 Human Health Media-Specific Screening Levels,*** dated October 30, 1996, a look-up table, was used to determine whether site conditions satisfy the criteria for recommendation of regulatory closure or warrant a more site-specific evaluation. Maximum detected soil concentrations of volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs) and metals were compared to EPA Region VI risk-based screening levels (RBSLs) for residential soil to evaluate whether a significant release (i.e., capable of posing a risk to human health) has occurred at SWMU 92. EPA Region VI RBSLs were used for the comparison because they are a comprehensive and up-to-date list of RBSLs derived using accepted risk assessment methodology. As noted, Table 4.2-25 shows a summary of VOCs, SVOCs and metals detected in soil samples collected at SWMU 92. Table 4.2-27 delineates the maximum concentrations of metals detected at SWMU 92.

The SVOC, di-n-butylphthalate was detected in Sample Nos. 7 and 15, at depths of 10 feet bgs, at concentrations of 25mg/kg and 30 mg/kg, respectively. Dibutylphthalate, an identical compound, has a Region VI non-carcinogenic listing of 6500 mg/kg for residential soils, therefore, the di-n-butlyphthalate levels detected should pose no significant threat to human health. Di-n-butylphthalate was also found in the laboratory method blanks for these samples. After further data review, it is believed that di-n-butylphthalate is a laboratory contaminant associated with plasticizers commonly found in laboratory equipment. Nine of the 19 SWMUs analyzed during this corrective measure showed di-n-butylphthalate contamination in the method 8270 blank analysis.

Table 4.2-27

SWMU 92 Maximum Soil Sample Concentrations of Metals						
Sample No.	**Total Metals mg/kg**		**TCLP Metals mg/L**	**Background Conc. Region VI / Cannon AFB[1] mg/kg**		**Region VI Residential RBSL mg/kg**
7	Arsenic	<3.0	<0.40	1.1 - 16.7	3.6	0.32 C
	Barium	680	1.6	430	805	5300 N
	Chromium	5.9	NT	38	13.3	31 C
	Nickel	6.8	NT	16	11.4	1500 N
	Lead	5	NT	10-18	7.1	400 N

N - noncarcinogenic
C - carcinogenic
NT - not tested

[1]CAFB Background Study, 1997

Barium at a concentration of 680 mg/kg was detected in Sample No. 7 at a depth to 10 feet bgs. This value is well within the Region VI RBSL of 5300 mg/kg.

Arsenic was not detected in any of the samples above the total arsenic detectection limit of 3.0 mg/kg, however the detection limit is above the Region VI RBSL of 0.32 mg/kg for carcinogenic arsenic and the RBSL of 2.2 mg/Kg for non-carcinogenic arsenic. The concentration of ≤3.0 mg/kg lies well within the Region VI background range. Since naturally occurring concentrations of arsenic in soils in this region are known to be relatively high and greatly exceed the carcinogenic RBSL of 0.32 mg/kg, it is impractical to impose this RBSL at this site. As an alternative, it is proposed to use ***The Background Investigation, Cannon Air Force Base, New Mexico,*** dated September 1997, value for arsenic in subsurface soils of 3.6 mg/kg.

None of the other metals anlyzed exceed the respective Region VI background level or residential RBSL. In addition, the site is paved and located in an industrial portion of the base. It can be reasonably asserted, therefore, that no chemicals, except arsenic, were detected at concentrations which are likely to pose a potentially significant human health risk based on any future land use scenario for SWMU 92.

Evaluation of the Groundwater Pathway

The depth to groundwater is approximately 240 feet at Cannon AFB (Woodward Clyde, 1992). Additionally site lithology in the vadose zone, including clays and Caliche (calcium carbonate) layers, as well as the asphalt paving over the site, would tend to impede infiltration and dissolved-phase and pure-phase contaminant transport. Organics are much more likely to be transported by dissolved-phase and pure-phase mechanisms than are inorganics. Due to these considerations, unsaturated zone transport was assumed not to be a significant transport mechanism, therefore,

the potential risks and hazards associated with groundwater use and ingestion were not considered as a complete in-direct exposure pathway.

Risk Conclusion

The results of the soil investigation following the removal of the oil/water separator at SWMU 92 indicate that no chemical release that poses an unacceptable human health risk for any potential exposure pathway has occurred at this SWMU and, therefore, no further evaluation of this SWMU is warranted.

4.2.10 SWMU 94

UNIT DESCRIPTION

SWMU 94 was associated with former Facility 5144, a two-bay vehicle washrack located east of the intersection of D.L. Ingram Street and Argentia Avenue. SWMU 94 consisted of two sandtraps and an oil/water separator (OWS). Each sandtrap was located in the center of a 30-foot-by-40-foot washrack and the washracks were adjacent to one another. The OWS lay approximately 30 feet northeast of the washracks in a grassy area. The washrack pads sloped to the sandtraps and the sandtraps discharged to the oil/water separator. The unit was active from 1960 to approximately 1988. At the time of this action, the washracks remained in place, but a metal building had been placed over the southernmost washrack and its associated sandtrap had been filled-in with concrete.

A brass cap was placed at the northernmost corner of where the OWS unit was located as shown in Figure 4.2-10. The point was surveyed by Lydeck Engineering at New Mexico State Plane Coordinates: North 1237615.57 and East 805487.39.

UNIT REMOVAL

The OWS and the westernmost sandtrap were evacuated and cleaned on February 18, 1997. The concrete washracks were removed, beginning on March 12, 1997. Soils within a 2-foot distance from around the westernmost sandtrap were sampled, excavated and removed on March 14, 1997. Soils adjacent to the outlet pipe of the sandtrap were observed to be stained a gray/black color. These soils were excavated to a distance of about 12 inches beyond the staining prior to gathering any soil samples. The sandtrap unit and the excavated soils associated with it were removed to separate areas of the staging area on the old abandoned runway. The breathing zone was monitored with the PID at 0.0 units, oxygen at a steady 19.5% and combustible gasses at <2% of the LEL.

The OWS unit was excavated and removed to the staging area on March 25, 1997. The breathing zone was monitored with the PID at 0.0 units, oxygen at a steady 19.5% and combustible gasses at <2% of the LEL.

On April 2, 1997, the eastern sandtrap was excavated and removed. The breathing zone was monitored with the PID at 0.0 units to 0.6 units, oxygen at a steady 19.5% and combustible gasses at <2% of the LEL.

UNIT CONTENTS

Approximatly 400 gallons of liquids/sludges were removed from the OWS unit. Approximately 55 gallons liquids/sludges were removed from the sandtrap. The liquids/sludges were sampled and sent for laboratory analysis. Laboratory analysis results for this material is reproduced in Appendix I. Results show that this material contained constituents commonly found in JP-fuels and solvents. This material was not a RCRA hazardous waste nor a DOT hazardous material. The sludge was placed in clean 55-gallon drums and disposed of off-base by Envirosolve

Southwest, Inc., Albuquerque, New Mexico. The disposal documentation for this material is reproduced in Appendix II.

SOIL SAMPLING

Soil samples (Nos. 1 through 4 as shown in Fig. 4.2-10) were taken from the bottom of each of the four vertical sidewalls of the west sandtrap excavation at a depth of 6-feet below ground surface (bgs). Two samples (sample Nos. 5 and 6) were collected from the bottom of the excavation within the footprint of the unit, at a depth of 6.5 feet bgs. These first six samples were collected for on-site field analysis using immunoassay method 4030. After field analysis of these samples indicated that the Total Petroleum Hydrocarbon (TPH) content for each sample was below 20 ppm and BTEX content was 10 ppm or less, a confirmatory sample (No. 7) was taken from the center of the bottom of the excavation at a depth of 6.5 feet bgs, and sent for laboratory analysis. A duplicate of sample Nos. 1 and 2 were submitted for laboratory analysis to correlate field results with laboratory results.

Laboratory results for Sample Nos. 1 and 2 indicate no BTEX or diesel range organic contamination, confirming the field analysis results.

Laboratory results for Sample No. 7 indicate no significant levels of organics or TCLP metals. Methylene chloride at 0.06 mg/kg and barium at 2.7 mg/L, were the only target analytes found.

Sample No. 8 was taken as a composite from the excavated soils of the west sandtrap and submitted for TCLP RCRA 8 metals analysis. Sample No. 8 results indicated no organics or metals contamination, except barium at 2.0 mg/L. These excavated soils were subsequently removed from the staging area and placed in the Base landfill.

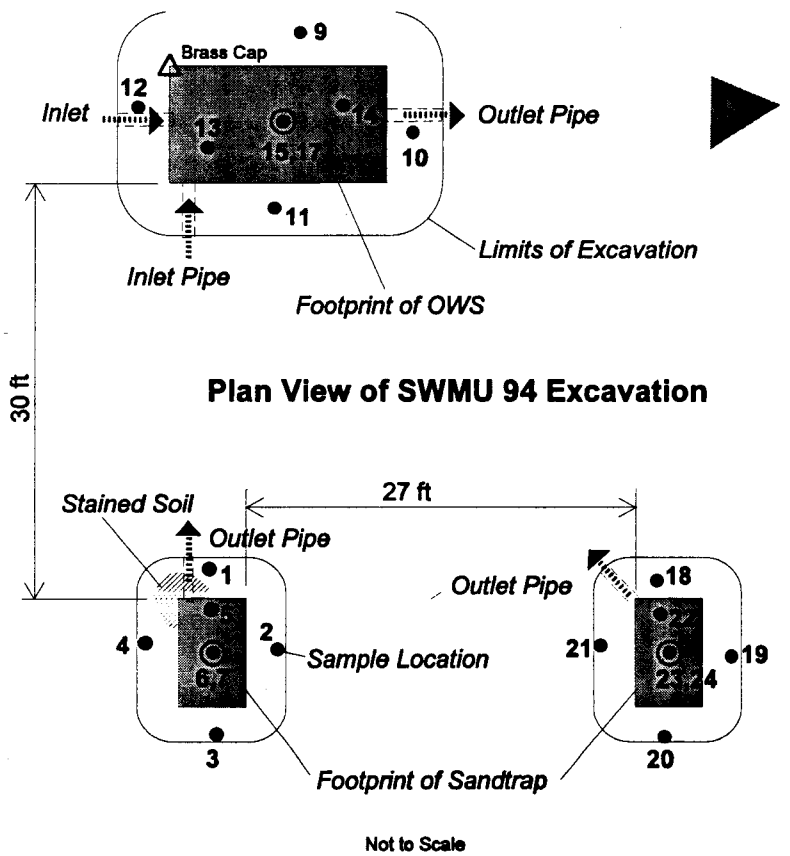

Figure 4.2-10. SWMU 94 Sample Locations

Soil sample Nos. 9 through 12 were taken from the

bottom of each of the four vertical sidewalls of the OWS excavation at a depth of 8.5-feet below ground surface (bgs). Two samples (Nos. 13 and 14) were collected from the bottom of the excavation within the footprint of the unit, at a depth of 9 feet bgs. Sample Nos. 11 through 14 were taken for on-site field analysis using immunoassay method 4030. After field analysis of these samples , a confirmatory sample (No. 15) was taken from the center of the bottom of the excavation at a depth of 6.5 feet bgs, and sent for laboratory analysis. A duplicate of sample No. 10 was submitted for laboratory analysis to correlate field results with laboratory results. Sample No. 17 was collected from the same location as No. 15 and analyzed as the site QC sample. Field sampling results are reproduced in Appendix III.

Laboratory results for Sample No. 15 indicate no significant levels of organics or TCLP metals, except barium at 1.3 mg/L.

Laboratory results for Sample No. 10 indicate no BTEX or diesel range organic contamination, confirming the field analysis results.

Sample No. 16 was taken as a composite from the excavated soils of the OWS and submitted for TCLP RCRA 8 metals analysis. Sample No. 16 results indicated no organics or metals contamination, except barium at 1.2 mg/L. These excavated soils were subsequently removed from the staging area and placed in the Base landfill.

Laboratory results for Sample No. 17 indicate no significant levels of organics or TCLP metals, except barium at 1.3 mg/L.

Soil sample Nos. 18 through 21 were taken from the bottom of each of the four vertical sidewalls of the east sandtrap excavation at a depth of 6-feet below ground surface (bgs). Two samples (Nos. 22 and 23) were collected from the bottom of the excavation within the footprint of the unit, at a depth of 6.5 feet bgs. Sample Nos. 18 through 23 were taken for on-site field analysis using immunoassay method 4030. After field analysis of these samples, a confirmatory sample (No. 24) was taken from the center of the bottom of the excavation at a depth of 6.5 feet bgs, and sent for laboratory analysis. A duplicate of sample Nos. 19 and 23 were submitted for laboratory analysis to correlate field results with laboratory results.

Laboratory results for Sample No. 24 indicate no significant levels of organics or TCLP metals, except barium at 1.7 mg/L.

Laboratory results for Sample Nos. 19 and 23 indicate no BTEX or diesel range organic contamination, confirming the field analysis results.

Sample No. 25 was taken as a composite from the excavated soils of the east sandtrap and submitted for TCLP RCRA 8 metals analysis. Sample No. 25 results indicate no organics or metals contamination, except barium at 1.3 mg/L. These excavated soils were subsequently removed from the staging area and placed in the Base landfill.

Sample No. 26 was taken as a composite from the soils excavated beneath the concrete washracks that were removed. This sample was submitted for BTEX, diesel range organics and TCLP RCRA 8 metals analysis. BTEX results indicated ethylbenzene at 0.070 mg/Kg, o-xylene at 0.51 mg/Kg. Diesel range organics results are reported at 2300 mg/Kg. The only TCLP metal is barium at 1.2 mg/L. These excavated soils (47 cubic yards) were removed from the staging area on April 29, 1997, and taken to Gandy Marley, Inc. for treatment and disposal.

A summary of soil sample results is shown in Table 4.2-28. Copies of laboratory analysis results for soils are provided in Appendix IV. All samples for SWMU 94 were labeled for identification in the following manner: CA(SWMU #)/(Sample #)-YY-MMDD-(24-hr time). For example, the SWMU 94 sample No. 7 in this text is identified by the laboratory as CA094/7-97-0314-1136.

Table 4.2-28.

SUMMARY OF SWMU 94 SOIL SAMPLE RESULTS

No.	Depth (ft)	Location	PID (units)	4030 TPH ppm	4030 BTEX ppm	SWA846 8020A BTEX mg/Kg	SWA846 M8015 DRO mg/Kg	SWA846 8260 mg/Kg	SWA846 8270B SOX mg/Kg	TCLP Metals 6011 mg/Kg
1	6	Sandtrap	ND	<20	<10	ND	ND	NT	NT	NT
2	6	Sandtrap	ND	<20	<10	ND	ND	NT	NT	NT
3	6	Sandtrap	ND	<20	ND	NT	NT	NT	NT	NT
4	6	Sandtrap	ND	ND	ND	NT	NT	NT	NT	NT
5	6.5	Sandtrap	ND	ND	ND	NT	NT	NT	NT	NT
6	6.5	Sandtrap	ND	ND	ND	NT	NT	NT	NT	NT
7	6.5	Sandtrap	NT	NT	NT	NT	ND	ND[1]	ND	Ba
8	n/a	excavated material	NT	NT	NT	ND	NT	NT	NT	Ba
9	8.5	OWS	ND	ND	<10	NT	NT	NT	NT	NT
10	8.5	OWS	ND	<20	<10	ND	ND	NT	NT	NT
11	8.5	OWS	ND	ND	<10	NT	NT	NT	NT	NT
12	8.5	OWS	ND	<20	ND	NT	NT	NT	NT	NT
13	9	OWS	ND	<20	ND	NT	NT	NT	NT	NT
14	9	OWS	ND	ND	<10	NT	NT	NT	NT	NT
15	9	OWS	NT	NT	NT	NT	ND	ND	ND	Ba

SUMMARY OF SWMU 94 SOIL SAMPLE RESULTS										
No.	Depth (ft)	Location	PID (units)	4030 TPH ppm	4030 BTEX ppm	SWA846 8020A BTEX mg/Kg	SWA846 M8015 DRO mg/Kg	SWA846 8260 mg/Kg	SWA846 8270B SOX mg/Kg	TCLP Metals 6011 mg/Kg
16	n/a	excavated soil	NT	NT	NT	ND	ND	NT	NT	Ba
17	9	OWS	NT	NT	NT	NT	NT	ND	ND	Ba
18	6	Sandtrap	ND	<20	<10	NT	NT	NT	NT	NT
19	6	Sandtrap	ND	ND	<10	ND	ND	NT	NT	NT
20	6	Sandtrap	ND	ND	<10	NT	NT	NT	NT	NT
21	6	Sandtrap	ND	ND	<10	NT	NT	NT	NT	NT
22	6.5	Sandtrap	ND	ND	<10	NT	NT	NT	NT	NT
23	6.5	Sandtrap	ND	ND	<10	ND	ND	NT	NT	NT
24	6.5	Sandtrap	NT	NT	NT	NT	ND	ND	ND	Ba
25	n/a	excavated material	NT	NT	NT	ND	NT	NT	NT	Ba
26	n/a	excavated materials	NT	NT	NT	0.58[2]	2300	NT	NT	Ba

[1] Only contaminant identified: Methylene Chloride at 0.06 mg/Kg.
[2] Ethylbenzene at 0.070 mg/Kg, O-Xylene at 0.51 mg/Kg.
ND indicates non-detect, or below detection limit.
NT indicates not tested.

UNIT DISPOSAL

The concrete from this unit was stockpiled on the abandoned runway site until samples were taken from the botton inside walls of the unit. This sample was mixed with five other SWMU concrete samples (SWMU 57, 51, 94, 32a, and 8) to form a composite sample for laboratory analysis. The concrete sample was analyzed using TCLP methods for metals, pesticides, volatiles and semivolatiles. Only low levels of barium (0.5 mg/L), 2-methylphenol/o-cresol (0.0068 mg/L) and ¾-methylphenol/m/p-cresol (0.0023 mg/L) were found in this sample.

The concrete (177.39 tons) and the asphalt (23.28 tons) associated with this unit were disposed of in the City of Clovis Public Landfill in Clovis, New Mexico between March 13 and April 28, 1997.

PROJECT COSTS

The total cost for SWMU 7 removal and restoration were $106,464.19 and are summarized in Table 4.2-29.

Table 4.2-29

SWMU 94 CONTRACT QUANTITIES AND COSTS				
Contract Bid Item No.	DESCRIPTION	$/UNIT	QUANTITY	COST
1	Mobilization/Demobilization	16.257/MI	100 MI	$ 1626.00
2	Travel Cost pertaining to construction contract	1957.8/EA	0	0
15	Sawcut concrete	12.93/LF	0	0
16	Concrete removal and disposal	237.38/T	180.41 T	4,284.70
17	Concrete Replacement	154.82/CY	112.75 CY	17,455.96
18	Sawcut Asphalt	1.5/LF	243 LF	364.50
19	Asphalt removal and disposal	28.88/T	23.28 T	672.33
20	Asphalt replacement	34.96/SY	0	0
25	Waste Oils, Tank Contents, Pump, Transport, Dispose, Recycle and/or Treatment, Complete	5.09/GAL	0	0
26	Hazardous & Dangerous Substances, Tank Contents, Pump, Transport, Dispose and/or Treatment, Complete	56.76/GAL	0	0
27	Contaminated Water, Tank Contents, Pump, Transport, Recycle and/or Dispose, Complete	2.61/GAL	0	0
28	Non-Contaminated Water, Tank Contents, Pump, Transport, Recyclye and/or Dispose, Complete	0.86/GAL	0	0
29	Hazardous Soil, Including Excavation, Trans-portaion, Treatment, Disposal and Required Backfill Material, Complete	289.15/T	0	0
30	Highly Contaminated Soil, Including Excavation, Transportaion, Treatment, Disposal and Required Backfill Material, Complete	90.75/T	53.58 T	4862.38
33	Additional Soil Sampling & Analysis, Method 8015 Modified (TPH), Complete	189.3/EA	13	2,460.90
38	Additional Soil Sampling & Analysis, Method 6010 (Total Metals), Complete	539.20/EA	4	2,156.8

SWMU 94 CONTRACT QUANTITIES AND COSTS				
Contract Bid Item No.	**DESCRIPTION**	**$/UNIT**	**QUANTITY**	**COST**
40	Remove OWSs,USTs and associated piping, Install new OWSs, all per drawings 0 and C1 through C12	LS	1	45,035.00
41	Removal and Disposal of Sludge from OWS	113.76/ GAL	0	0
42	Soil Sampling & Analysis, Total BTEX Rapid Assay or Equivalent (Immunoassay-BTEX), Complete	158.01/EA	18	2,844.18
43	Soil Sampling & Analysis, Draft Method 4030 (Immunoassay-TPH), Complete	158.01/EA	18	2,844.18
44	Soil Sampling & Analysis, Method 8260 (VOAs), Complete	375.08/EA	4	1500.32
45	Soil Sampling & Analysis, Method 8270 (Semi-VOAs), Complete	619.36/EA	4	2,477.44
46	Soil Sampling & Analysis, Method 8020 (BTEX), Complete	155.28/EA	9	1,397.52
47	Case 780D Backhoe, Operator & Laborer, Complete	140.5/HR	0	0
48	Soil Sampling & Analysis, Method 1311 (TCLP), Total Analyte List Metals and SVOCs, Complete	798.69/EA	8	6,389.52
49	Remove & Dispose of Non-hazardous Sludge from OWS (Partial drums that cannont be filled from another unit shall be paid as full drum)	203.53/ 55-GAL DRUM	8.27 55-GAL DRUMS	1,683.19
50	Remove & Dispose of Hazardous Sludge from OWS (Partial drums that cannont be filled from another unit shall be paid as full drum)	474.90/ 55-GAL DRUM	0	0
Misc	New Fencing installed at SWMU 94	LS	1	8,409.27
TOTAL				**$106,464.19**

SWMU 94 RISK EVALUATION

Site Conceptual Exposure Model

There are three potentially unique mechanisms, or exposure pathways, by which an individual or population would come in contact with a chemical(s) of concern at SWMU 94: direct contact with soil, inhalation of airborne emissions from soil, and domestic use of groundwater on the Base or at the Base boundary. The persons, structures, utilities, surface waters, and water supply wells that are or may be adversely affected by a release at SWMU 94 are the potential receptors. The potential receptors include Base workers (e.g., military and Base personnel, Base contractors, construction workers, Base residents and Base visitors), and residential receptors at the Base boundary downgradient of the SWMU who may use the groundwater.

Comparison of Concentrations in Soil to Risk Based Screening Levels (RBSLs)

The ***EPA Region 6 Human Health Media-Specific Screening Levels,*** dated October 30, 1996, a look-up table, was used to determine whether site conditions satisfy the criteria for recommendation of regulatory closure or warrant a more site-specific evaluation. Maximum detected soil concentrations of volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs) and metals were compared to EPA Region VI risk-based screening levels (RBSLs) for residential soil to evaluate whether a significant release (i.e., capable of posing a risk to human health) has occurred at SWMU 94. EPA Region VI RBSLs were used for the comparison because they are a comprehensive and up-to-date list of RBSLs derived using accepted risk assessment methodology. As noted, Table 4.1.1 shows a summary of VOCs,SVOCs and metals detected in soil samples collected at SWMU 94. Table 4.1-3 delineates the maximum concentrations of metals detected at SWMU 94.

The volatile organic compound (VOC), methylene chloride was detected in Sample No. 7 at a depth of 6.5 feet bgs at a concentration of 0.06 mg/kg. The Region VI residential RBSL for this analyte is 11 mg/kg. The relatively low concentration of the VOC in this sample is well within the Region VI RBSL, and, therefore, protective of human health.

Table 4.2-30

SWMU 94 Maximum Soil Sample Concentrations of Metals						
Sample No.	**Total Metals mg/kg**		**TCLP Metals mg/L**	**Background Conc. Region VI / Cannon AFB[1] mg/kg**		**Region VI Residential RBSL mg/kg**
7	Arsenic	6.4	<0.40	1.1 - 16.7	3.6	0.32 C
	Barium	812	1.6	430	805	5300 N
	Cadmium	0.29	<0.0050	0.01 -1.0	1.3	38 N
	Chromium	9.2	NT	38	13.3	31 C
	Nickel	6.9	NT	16	11.4	1500 N

SWMU 94 Maximum Soil Sample Concentrations of Metals						
Sample No.	Total Metals mg/kg		TCLP Metals mg/L	Background Conc. Region VI / Cannon AFB[1] mg/kg		Region VI Residential RBSL mg/kg
24	Lead	4.4	NT	10-18	7.1	400 N

N - noncarcinogenic
C - carcinogenic
NT - not tested

[1]CAFB Background Study, 1997

Barium at a concentration of 812 mg/kg was detected in Sample No. 7 at a depth to 6.5 feet bgs. This value exceeds the Region VI background level of 430 mg/kg, but is well within the Region VI RBSL of 5300 mg/kg.

Arsenic was detected in Sample No.7 at a depth of 6.5 feet and at a concentration of 6.4 mg/kg. This concentration lies well within the Region VI background range, however, it exceeds the Region VI RBSL of 0.32 mg/kg for carcinogenic arsenic and the RBSL of 2.2 mg/Kg for non-carcinogenic arsenic. Since naturally occurring concentrations of arsenic in soils in this region are known to be relatively high and greatly exceed the carcinogenic RBSL of 0.32 mg/kg, it is impractical to impose this RBSL as the clean-up criterion value at this site. In this case, the maximum concentration of total arsenic at this site exceeds the background concentration of 3.6 mg/kg, suggested by the ***Background Investigation, Cannon Air Force Base, New Mexico,*** dated September 1997.

The risk assumptions incorporated into the RBSL value should be re-examined to more reasonably portray specific site conditions. The soil in question lies at a depth of 6.5 feet below ground surface and even in a residential scenario, it will will be disturbed only intermittently for subsurface construction of utilities or structural foundations. In addtion, the excavations were refilled with local soils obtained off-base which were analyzed for the 8 RCRA metals, including arsenic, by the EPA toxic leaching procedure (TCLP) methods. The TCLP results indicated that arsenic was not present at concentrations at or above the detection limit of 0.050 mg/l. These backfill soils were never in contact with the OWS or sandtrap facilities, and therefore, could not have been contaminated by constituents these facilities contained or leaked.
The reasonable maximum exposure (RME) assumptions inherent in the risk calculations include an exposure frequency of 350 days per year and an exposure duration of 30 years for an adult male weighing 70 kg. Using the maximum arsenic concentration and the assumptions included in the RME as described above for an adult male ingesting soil, the cancer risk value is 5.6E-06. This is an upper bound estimate. For any future scenario, including residential use of the site, these assumptions are simply not reasonable. When the exposure frequency is reduced to a more reasonable value, 100 days, for example and the frequency is reduced to 10 years, the risk value becomes 5.4E-07, an order of magnitude lower and well below the acceptable cancer risk of 1.0E-06.

Alternatively, if we look at the RME for a child, ingesting soil containing the maximum concentration value of 6.4 mg/kg, the cancer risk is 1.2E-04. When the exposure frequency is reduced to 100 days, the risk value becomes 3.5E-05, an order of magnitude lower and well within the acceptable cancer risk range of 1.0E-6 and 1.0 E-04.

Among the other metal analytes tested, none exceeds the respective Region VI RBSL. In addition, this site is paved with asphalt and located in an industrial portion of the base. It can be reasonably asserted, therefore, that no chemicals, with the exception of arsenic, were detected at concentrations which are likely to pose a potentially significant human health risk based on any current or future land use scenario for SWMU 94.

Evaluation of the Groundwater Pathway

The depth to groundwater is approximately 240 feet at Cannon AFB (Woodward Clyde, 1992). Additionally site lithology in the vadose zone, including clays and Caliche (calcium carbonate) layers, as well as the asphalt paving over the site, would tend to impede infiltration and dissolved-phase and pure-phase contaminant transport. Organics are much more likely to be transported by dissolved-phase and pure-phase mechanisms than are inorganics. Due to these considerations, unsaturated zone transport was assumed not to be a significant transport mechanism, therefore, the potential risks and hazards associated with groundwater use and ingestion were not considered as a complete in-direct exposure pathway.

Risk Conclusion

The results of the soil investigation following the removal of the oil/water separator at SWMU 94 indicate that arsenic levels at the OWS site and the west sandtrap exceed the RBSL and the local background concentrations determined by the ***Background Investigation*** (1997). These arsenic levels do not pose an unacceptable human health risk for the soil ingestion exposure pathway, if site-specific exposure assumptions are used instead of the RME standards. For this reason, further evaluation of this SWMU is not warranted.

4.3 REFERENCES

1. Woodward-Clyde. 1992. ***Remedial Investigation Report for 18 Solid Waste Management Units.*** Cannon AFB, Clovis, New Mexico. October.

2. United States Environmental Protection Agency (EPA). 1996. ***EPA Region 6 Human Health Media-Specific Screening Levels.*** October.

3. Cannon Air Force Base, New Mexico. 1997. ***Background Investigation, Cannon Air Force Base, New Mexico.*** September.

5.0 SUMMARY OF WORK ACTIVITIES

5.1 TOTAL CONTRACT QUANTITIES AND COSTS

Table 5.1-1 summarizes the total contract quantities and costs.

Table 5.1-1

TOTAL CONTRACT QUANTITIES AND COSTS				
Contract Bid Item No.	**DESCRIPTION**	**$/UNIT**	**QUANTITY**	**COST**
1	Mobilization/Demobilization	16.257/MI	200 MI	$ 3,251.40
2	Travel Cost pertaining to construction contract	1957.8/EA	0	0
15	Sawcut concrete	12.93/LF	269 LF	3,478.17
16	Concrete removal and disposal	237.38/T	335.96 T	79,751.66
17	Concrete Replacement	154.82/CY	148.75 CY	23,029.48
18	Sawcut Asphalt	1.5/LF	732 LF	1,098.00
19	Asphalt removal and disposal	28.88/T	61.38 T	1,772.65
20	Asphalt replacement	34.96/SY	158.09 SY	5,526.83
25	Waste Oils, Tank Contents, Pump, Transport, Dispose, Recycle and/or Treatment, Complete	5.09/GAL	379 GAL	1,929.11
26	Hazardous & Dangerous Substances, Tank Contents, Pump, Transport, Dispose and/or Treatment, Complete	56.76/GAL	50 GAL	2,838.00
27	Contaminated Water, Tank Contents, Pump, Transport, Recycle and/or Dispose, Complete	2.61/GAL	8,276.91 GAL	21,602.73
28	Non-Contaminated Water, Tank Contents, Pump, Transport, Recyclye and/or Dispose, Complete	0.86/GAL	6,008.23 GAL	5,167.08
29	Hazardous Soil, Including Excavation, Transportaion, Treatment, Disposal and Required Backfill Material, Complete	289.15/T	0	0
30	Highly Contaminated Soil, Including Excavation, Transportaion, Treatment, Disposal and Required Backfill Material, Complete	90.75/T	64.66 T	5,867.90
33	Additional Soil Sampling & Analysis, Method 8015 Modified (TPH), Complete	189.3/EA	98	18,551.40

TOTAL CONTRACT QUANTITIES AND COSTS				
Contract Bid Item No.	**DESCRIPTION**	**$/UNIT**	**QUANTITY**	**COST**
38	Additional Soil Sampling & Analysis, Method 6010 (Total Metals), Complete	539.20/EA	42	22,646.40
40	Remove OWSs,USTs and associated piping, Install new OWSs, all per drawings 0 and C1 through C12	LS	1	490,580.00
41	Removal and Disposal of Sludge from OWS	113.76/ GAL	500 GAL	56,880.00
42	Soil Sampling & Analysis, Total BTEX Rapid Assay or Equivalent (Immunoassay-BTEX), Complete	158.01/EA	151	23,859.51
43	Soil Sampling & Analysis, Draft Method 4030 (Immunoassay-TPH), Complete	158.01/EA	172	27,177.72
44	Soil Sampling & Analysis, Method 8260 (VOAs), Complete	375.08/EA	30	11,252.40
45	Soil Sampling & Analysis, Method 8270 (Semi-VOAs), Complete	619.36/EA	30	18,580.80
46	Soil Sampling & Analysis, Method 8020 (BTEX), Complete	155.28/EA	56	8,695.68
47	Case 780D Backhoe, Operator & Laborer, Complete	140.5/HR	9 HR	1,264.50
48	Soil Sampling & Analysis, Method 1311 (TCLP), Total Analyte List Metals and SVOCs, Complete	798.69/EA	53	42,330.57
49	Remove & Dispose of Non-hazardous Sludge from OWS (Partial drums that cannont be filled from another unit shall be paid as full drum)	203.53/ 55-GAL DRUM	16.27	3,311.43
50	Remove & Dispose of Hazardous Sludge from OWS (Partial drums that cannont be filled from another unit shall be paid as full drum)	474.90/ 55-GAL DRUM	17	8,073.30
Misc	New Fencing installed at SWMU 94	LS	1	8,409.27
TOTAL				**$896,926.58**

5.2 TOTAL QUANTITIES OF EXCAVATED SOILS

5.2.1 CONTAMINATED SOILS

Contaminated soils were defined in this corrective measure as excavated soils which when analyzed by laboratory and field methods, contained TPH levels at or greater than 100 ppm, and/or BTEX at or greater than 50, and/or exceeded the Toxicity Characteristic limits. None of the soils excavated under this corrective measure, however, had TCLP metals results that exceeded theToxicity Characteristic limits. Table 5-2 includes a summary of the contaminated soil quantities. All contaminated soils were disposed of at Gandy Marley, Inc. in Tatum, New Mexico.

5.2.2 NON-CONTAMINATED SOILS

Non-contaminated soils were defined in this corrective measure as excavated soils which when analyzed by laboratory and field methods, contained TPH levels less than 100 ppm, and BTEX less than 50, and did not exceed the Toxicity Characteristic limits. Table 5-2 includes a summary of the non-contaminated soil quantities. Non-contaminated soils were disposed of at either the CAFB construction debris landfill, or the City of Clovis Public Landfill.

Table 5.2-1

QUANTITIES & DISPOSITION OF EXCAVATED SOILS

SWMU No.	VOLUME (Cubic Yards)	DISQUALIFYING ANALYSIS	DISPOSAL LOCATION
7	5	None	CAFB Construction Debris Landfill
8	10	None	CAFB Construction Debris Landfill
9	25	None	City of Clovis Public Landfill
11	10	None	CAFB Construction Debris Landfill
32a	15	None	City of Clovis Public Landfill
33b	10	None	CAFB Construction Debris Landfill
38	19	None	CAFB Construction Debris Landfill
39	10	None	CAFB Construction Debris Landfill
46	10	None	CAFB Construction Debris Landfill
47	20	None	City of Clovis Public Landfill
51	10	None	CAFB Construction Debris Landfill
51	1	TPH (7200 ppm)	Gandy Marley, Inc.
57	15	None	City of Clovis Public Landfill
70	10	TPH (870-1500 ppm)	Gandy Marley, Inc.

QUANTITIES & DISPOSITION OF EXCAVATED SOILS

SWMU No.	VOLUME (Cubic Yards)	DISQUALIFYING ANALYSIS	DISPOSAL LOCATION
92	30	None	CAFB Construction Debris Landfill
94	20	None	CAFB Construction Debris Landfill
94	53.58	TPH (2300 ppm)	Gandy Marley, Inc.

In summary, excavated soils were removed to one of three locations in these quantities:

- CAFB Construction Debris Landfill 134 cubic yards
- City of Clovis Public Landfill 75
- Gandy Marley, Inc., Tatum, NM 64.58

APPENDIX I

Laboratory Analysis Results
of
SWMU Contents

ASSAIGAI
ANALYTICAL
LABORATORIES, INC.
7300 Jefferson, N.E. • Albuquerque, New Mexico 87109 • (505) 345-8964 • FAX (505) 345-7259
3332 Wedgewood, E-5 • El Paso, Texas 79925 • (915) 593-6000 • FAX (915) 593-7820

Report Generated:
December 23, 1996 11:17

CERTIFICATE OF ANALYSIS
RESULTS BY SAMPLE

SENT TO: CHEYENNE BUILDING CONTRACTORS
P.O. BOX 418
CLOVIS, NM 88101

WORKORDER # : 9612015
WORK ID : DACA47-95-D-0035
CLIENT CODE : CHE10
DATE RECEIVED : 12/03/96

ATTN: MIKE LANDGRAF

Confirmatory

Lab ID: 9612015-01A
Sample ID: CA57/7-96-1202-0951
Collected: 12/02/96 09:51:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
Diesel Range OG Soil/M8015						
Diesel Range OG in Soil	ND	mg/Kg	50	1.0	12/17/96	SDRO009

Lab ID: 9612015-01B
Sample ID: CA57/7-96-1202-0951
Collected: 12/02/96 09:51:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
VOLATILES/SW846 8260						
Dichlorodifluoromethane	ND	mg/Kg	0.010	5.0	12/10/96	SMSVOA410
Chloromethane	ND	mg/Kg	0.0050	5.0	12/10/96	SMSVOA410
Iodomethane	ND	mg/Kg	0.0050	5.0	12/10/96	SMSVOA410
Acetone	ND	mg/Kg	0.0050	5.0	12/10/96	SMSVOA410
Bromomethane	ND	mg/Kg	0.0050	5.0	12/10/96	SMSVOA410
Vinyl Chloride	ND	mg/Kg	0.0050	5.0	12/10/96	SMSVOA410
Chloroethane	ND	mg/Kg	0.0050	5.0	12/10/96	SMSVOA410
Trichlorofluoromethane	ND	mg/Kg	0.0050	5.0	12/10/96	SMSVOA410
Freon 113	ND	mg/Kg	0.0050	5.0	12/10/96	SMSVOA410
Carbon Disulfide	ND	mg/Kg	0.020	5.0	12/10/96	SMSVOA410
Acrolein	ND	mg/Kg	0.010	5.0	12/10/96	SMSVOA410
Methylene Chloride	ND	mg/Kg	0.0010	5.0	12/10/96	SMSVOA410
1,1-Dichloroethene	ND	mg/Kg	0.0010	5.0	12/10/96	SMSVOA410
1,1-Dichloroethane	ND	mg/Kg	0.020	5.0	12/10/96	SMSVOA410
Acrylonitrile	ND	mg/Kg	0.0010	5.0	12/10/96	SMSVOA410
trans-1,2-Dichloroethene	ND	mg/Kg	0.0010	5.0	12/10/96	SMSVOA410
Chloroform	ND	mg/Kg	0.0010	5.0	12/10/96	SMSVOA410
1,2-Dichloroethane	ND	mg/Kg	0.0050	5.0	12/10/96	SMSVOA410
Vinyl Acetate	ND	mg/Kg	0.0010	5.0	12/10/96	SMSVOA410
cis-1,2-Dichloroethene	ND	mg/Kg	0.0050	5.0	12/10/96	SMSVOA410
2-Butanone (MEK)	ND	mg/Kg	0.0010	5.0	12/10/96	SMSVOA410
1,1,1-Trichloroethane	ND	mg/Kg	0.0010	5.0	12/10/96	SMSVOA410
Carbon Tetrachloride	ND	mg/Kg	0.0010	5.0	12/10/96	SMSVOA410
Bromodichloromethane	ND	mg/Kg	0.0010	5.0	12/10/96	SMSVOA410
1,2-Dichloropropane	ND	mg/Kg	0.0010	5.0	12/10/96	SMSVOA410
Dibromomethane	ND	mg/Kg	0.0010	5.0	12/10/96	SMSVOA410
trans-1,3-Dichloropropene	ND	mg/Kg	0.0010	5.0	12/10/96	SMSVOA410
Trichloroethene	ND	mg/Kg	0.0010	5.0	12/10/96	SMSVOA410
Chlorodibromomethane	ND	mg/Kg	0.0050	5.0	12/10/96	SMSVOA410
Ethyl Methacrylate	ND	mg/Kg	0.0050	5.0	12/10/96	SMSVOA410
2-Chloroethylvinyl Ether	ND	mg/Kg	0.0050	5.0	12/10/96	SMSVOA410

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ID: 9612015-01B
Sample ID: CA57/7-96-1202-0951

Collected: 12/02/96 09:51:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
VOLATILES/SW846 8260						
1,1,2-Trichloroethane	ND	mg/Kg	0.0010	5.0	12/10/96	SMSVOA410
Benzene	ND	mg/Kg	0.0010	5.0	12/10/96	SMSVOA410
cis-1,3-Dichloropropene	ND	mg/Kg	0.0010	5.0	12/10/96	SMSVOA410
Bromoform	ND	mg/Kg	0.0010	5.0	12/10/96	SMSVOA410
4-Methyl-2-Pentanone (MIBK)	ND	mg/Kg	0.0050	5.0	12/10/96	SMSVOA410
Tetrachloroethene	ND	mg/Kg	0.0010	5.0	12/10/96	SMSVOA410
1,1,2,2-Tetrachloroethane	ND	mg/Kg	0.0010	5.0	12/10/96	SMSVOA410
1,2-Dibromoethane	ND	mg/Kg	0.0010	5.0	12/10/96	SMSVOA410
2-Hexanone (MBK)	ND	mg/Kg	0.0050	5.0	12/10/96	SMSVOA410
1,1,1,2-Tetrachloroethane	ND	mg/Kg	0.0010	5.0	12/10/96	SMSVOA410
Toluene	ND	mg/Kg	0.0010	5.0	12/10/96	SMSVOA410
Chlorobenzene	ND	mg/Kg	0.0010	5.0	12/10/96	SMSVOA410
Ethylbenzene	ND	mg/Kg	0.0010	5.0	12/10/96	SMSVOA410
1,4-Dichloro-2-Butene	ND	mg/Kg	0.010	5.0	12/10/96	SMSVOA410
Styrene	ND	mg/Kg	0.0010	5.0	12/10/96	SMSVOA410
P/M Xylene	ND	mg/Kg	0.0020	5.0	12/10/96	SMSVOA410
O-Xylene	ND	mg/Kg	0.0010	5.0	12/10/96	SMSVOA410
1,2,3-Trichloropropane	ND	mg/Kg	0.0010	5.0	12/10/96	SMSVOA410
Methyl-tert Butyl Ether	ND	mg/Kg	0.010	5.0	12/10/96	SMSVOA410
1,2-Dichlorobenzene	ND	mg/Kg	0.0010	5.0	12/10/96	SMSVOA410
1,3-Dichlorobenzene	ND	mg/Kg	0.0010	5.0	12/10/96	SMSVOA410
1,4-Dichlorobenzene	ND	mg/Kg	0.0010	5.0	12/10/96	SMSVOA410

ID: 9612015-01C
Sample ID: CA57/7-96-1202-0951

Collected: 12/02/96 09:51:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
SVOA(SOX) Soil/SW846 8270B	12/03/96	N/A				
n-Nitrosodimethylamine	ND	mg/Kg	1.0	1.4	12/14/96	SMSSVOA131
Pyridine	ND	mg/Kg	10	1.4	12/14/96	SMSSVOA131
Aniline	ND	mg/Kg	10	1.4	12/14/96	SMSSVOA131
bis(2-Chloroethyl) Ether	ND	mg/Kg	0.50	1.4	12/14/96	SMSSVOA131
2-Chlorophenol	ND	mg/Kg	0.50	1.4	12/14/96	SMSSVOA131
1,3-Dichlorobenzene	ND	mg/Kg	0.50	1.4	12/14/96	SMSSVOA131
1,4-Dichlorobenzene	ND	mg/Kg	0.50	1.4	12/14/96	SMSSVOA131
Phenol	ND	mg/Kg	0.50	1.4	12/14/96	SMSSVOA131
1,2-Dichlorobenzene	ND	mg/Kg	0.50	1.4	12/14/96	SMSSVOA131
Benzyl Alcohol	ND	mg/Kg	10	1.4	12/14/96	SMSSVOA131
bis(2-Chloroisopropyl) Ether	ND	mg/Kg	1.0	1.4	12/14/96	SMSSVOA131
2-Methylphenol / O-Cresol	ND	mg/Kg	0.50	1.4	12/14/96	SMSSVOA131
Hexachloroethane	ND	mg/Kg	0.50	1.4	12/14/96	SMSSVOA131
n-Nitroso-di-n-propylamine	ND	mg/Kg	0.50	1.4	12/14/96	SMSSVOA131
Nitrobenzene	ND	mg/Kg	0.50	1.4	12/14/96	SMSSVOA131
3/4 Methylphenol / M/P-Cresol	ND	mg/Kg	0.50	1.4	12/14/96	SMSSVOA131
Isophorone	ND	mg/Kg	0.50	1.4	12/14/96	SMSSVOA131
2-Nitrophenol	ND	mg/Kg	1.0	1.4	12/14/96	SMSSVOA131
bis(2-Chloroethoxy) Methane	ND	mg/Kg	0.50	1.4	12/14/96	SMSSVOA131
2,4-Dimethylphenol	ND	mg/Kg	1.0	1.4	12/14/96	SMSSVOA131
1,2,4-Trichlorobenzene	ND	mg/Kg	0.50	1.4	12/14/96	SMSSVOA131
Naphthalene	ND	mg/Kg	0.50	1.4	[illegible]96	SMSSVOA131
Benzoic Acid	ND	mg/Kg	10	1.4	12/14/96	SMSSVOA131
2,4-Dichlorophenol	ND	mg/Kg	1.0	1.4	12/14/96	SMSSVOA131
4-Chloroaniline	ND	mg/Kg	10	1.4	12/14/96	SMSSVOA131
Hexachlorobutadiene	ND	mg/Kg	0.50	1.4	12/14/96	SMSSVOA131
Methylnaphthalene	ND	mg/Kg	0.50	1.4	12/14/96	SMSSVOA131
4-Chloro-3-methylphenol	ND	mg/Kg	0.50	1.4	12/14/96	SMSSVOA131
Hexachlorocyclopentadiene	ND	mg/Kg	10	1.4	12/14/96	SMSSVOA131

ID: 9612015-01C
Sample ID: CA57/7-96-1202-0951

Collected: 12/02/96 09:51:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
SVOA(SOX) Soil/SW846 8270B						
2,4,6-Trichlorophenol	ND	mg/Kg	1.0	1.4	12/14/96	SMSSVOA131
2,4,5-Trichlorophenol	ND	mg/Kg	1.0	1.4	12/14/96	SMSSVOA131
2-Chloronaphthalene	ND	mg/Kg	0.50	1.4	12/14/96	SMSSVOA131
2-Nitroaniline	ND	mg/Kg	1.0	1.4	12/14/96	SMSSVOA131
Acenaphthylene	ND	mg/Kg	0.50	1.4	12/14/96	SMSSVOA131
Dimethylphthalate	ND	mg/Kg	0.50	1.4	12/14/96	SMSSVOA131
2,6-Dinitrotoluene	ND	mg/Kg	1.0	1.4	12/14/96	SMSSVOA131
Acenaphthene	ND	mg/Kg	0.50	1.4	12/14/96	SMSSVOA131
3-Nitroaniline	ND	mg/Kg	10	1.4	12/14/96	SMSSVOA131
Dibenzofuran	ND	mg/Kg	0.50	1.4	12/14/96	SMSSVOA131
2,4-Dinitrotoluene	ND	mg/Kg	2.5	1.4	12/14/96	SMSSVOA131
Fluorene	ND	mg/Kg	0.50	1.4	12/14/96	SMSSVOA131
4-Chlorophenyl-phenylether	ND	mg/Kg	0.50	1.4	12/14/96	SMSSVOA131
Diethylphthalate	ND	mg/Kg	0.50	1.4	12/14/96	SMSSVOA131
4-Nitrophenol	ND	mg/Kg	10	1.4	12/14/96	SMSSVOA131
4,6-Dinitro-2-methylphenol	ND	mg/Kg	10	1.4	12/14/96	SMSSVOA131
n-Nitrosodiphenylamine	ND	mg/Kg	0.50	1.4	12/14/96	SMSSVOA131
4-Nitroaniline	ND	mg/Kg	10	1.4	12/14/96	SMSSVOA131
4-Bromophenyl-phenylether	ND	mg/Kg	0.50	1.4	12/14/96	SMSSVOA131
Hexachlorobenzene	ND	mg/Kg	0.50	1.4	12/14/96	SMSSVOA131
Pentachlorophenol	ND	mg/Kg	10	1.4	12/14/96	SMSSVOA131
2,4-Dinitrophenol	ND	mg/Kg	10	1.4	12/14/96	SMSSVOA131
Phenanthrene	ND	mg/Kg	0.50	1.4	12/14/96	SMSSVOA131
Anthracene	ND	mg/Kg	0.50	1.4	12/14/96	SMSSVOA131
Di-n-butylphthalate	13B	mg/Kg	5.0	1.4	12/14/96	SMSSVOA131
Fluoranthene	ND	mg/Kg	0.50	1.4	12/14/96	SMSSVOA131
Pyrene	ND	mg/Kg	0.50	1.4	12/14/96	SMSSVOA131
Butylbenzylphthalate	ND	mg/Kg	0.50	1.4	12/14/96	SMSSVOA131
Benzo(a)anthracene	ND	mg/Kg	0.50	1.4	12/14/96	SMSSVOA131
Chrysene	ND	mg/Kg	0.50	1.4	12/14/96	SMSSVOA131
3,3'-Dichlorobenzidine	ND	mg/Kg	10	1.4	12/14/96	SMSSVOA131
bis(2-Ethylhexyl)phthalate	ND	mg/Kg	2.5	1.4	12/14/96	SMSSVOA131
Di-n-octyl phthalate	ND	mg/Kg	0.50	1.4	12/14/96	SMSSVOA131
Benzo(b)+(k)fluoranthene	ND	mg/Kg	0.50	1.4	12/14/96	SMSSVOA131
1-Methylnaphthalene	ND	mg/Kg	1.0	1.4	12/14/96	SMSSVOA131
Benzo(a)pyrene	ND	mg/Kg	0.50	1.4	12/14/96	SMSSVOA131
Indeno(1,2,3-cd)pyrene	ND	mg/Kg	1.0	1.4	12/14/96	SMSSVOA131
Benzo(g,h,i)perylene	ND	mg/Kg	1.0	1.4	12/14/96	SMSSVOA131
2,3,4,6-Tetrachlorophenol	ND	mg/Kg	2.5	1.4	12/14/96	SMSSVOA131
Azobenzene	ND	mg/Kg	1.0	1.4	12/14/96	SMSSVOA131
Dibenz(a,h)anthracene	ND	mg/Kg	1.0	1.4	12/14/96	SMSSVOA131

Lab ID: 9612015-01D
Sample ID: CA57/7-96-1202-0951

Collected: 12/02/96 09:51:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
% SOLIDS(TCLP XT)EPA 160.3	100.00	% (Percent)				
ARSENIC (GFAA)/SW846 7060						
Arsenic, As	0.78	mg/Kg	0.25	2.0	12/12/96	M96202
CVAA Hg XT/SW846 7471	12/05/96	N/A				
MERCURY (CVAA)/SW846 7471						
Mercury	ND	mg/Kg	0.15	1.0	12/06/96	M96195
Metal(ICP) DIG /SW846 3050	12/09/96	N/A				
METALS-ICP/SW846 6010						
Silver, Ag	1.4	mg/Kg	1.0	1.0	12/11/96	M96202
Aluminum, Al	NT	mg/Kg	25			M96202
Arsenic, As	NT	mg/Kg	3.0			M96202

Lab ID: 9612015-01D
Sample ID: CA57/7-96-1202-0951

Collected: 12/02/96 09:51:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
METALS-ICP/SW846 6010						
Barium, Ba	162	mg/Kg	0.50	1.0	12/11/96	M96202
Beryllium, Be	NT	mg/Kg	0.50			M96202
Calcium, Ca	NT	mg/Kg	15			M96202
Cadmium, Cd	0.21	mg/Kg	0.20	1.0	12/11/96	M96202
Cobalt, Co	NT	mg/Kg	0.50			M96202
Chromium, Cr	8.7	mg/Kg	1.0	1.0	12/11/96	M96202
Copper, Cu	NT	mg/Kg	0.50			M96202
Iron, Fe	NT	mg/Kg	15			M96202
Potassium, K	NT	mg/Kg	10			M96202
Magnesium, Mg	NT	mg/Kg	10			M96202
Manganese, Mn	NT	mg/Kg	0.25			M96202
Sodium, Na	NT	mg/Kg	15			M96202
Nickel, Ni	6.4	mg/Kg	2.0	1.0	12/11/96	M96202
Lead, Pb	9.3	mg/Kg	2.0	1.0	12/11/96	M96202
Antimony, Sb	NT	mg/Kg	1.5			M96202
Selenium, Se	ND	mg/Kg	2.5	1.0	12/11/96	M96202
Vanadium, V	NT	mg/Kg	0.15			M96202
Zinc, Zn	NT	mg/Kg	5.0			M96202
TCLP (ICP) DIG/1311/3005	12/04/96	N/A				
TCLP EXTRACTION/TCLP 1311	12/03/96	N/A				
TCLP METALS/1311/SW8466010						
Arsenic, As	ND	mg/L	0.40	1.0	12/05/96	M96185, M96194
Barium, Ba	0.8	mg/L	0.50	1.0	12/05/96	M96185, M96194
Cadmium, Cd	ND	mg/L	0.0050	1.0	12/05/96	M96185, M96194
Chromium, Cr	0.02B	mg/L	0.020	1.0	12/05/96	M96185, M96194
Lead, Pb	ND	mg/L	0.050	1.0	12/05/96	M96185, M96194
Mercury, Hg	ND	mg/L	0.0020	1.0	12/06/96	M96185, M96194
Selenium, Se	ND	mg/L	0.050	1.0	12/05/96	M96185, M96194
Silver, Ag	ND	mg/L	0.040	1.0	12/05/96	M96185, M96194
TCLP(CVAA)Hg XT/SW846 7471	12/05/96	N/A				

Lab ID: 9612015-02A
Sample ID: CA57/8-96-1202-0952

Collected: 12/02/96 09:52:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
% SOLIDS(TCLP XT)EPA 160.3	100.00	% (Percent)				
Diesel Range OG Soil/M8015						
Diesel Range OG in Soil	ND	mg/Kg	50	1.0	12/17/96	SDRO009
TCLP (ICP) DIG/1311/3005	12/04/96	N/A				
TCLP EXTRACTION/TCLP 1311	12/03/96	N/A				
TCLP METALS/1311/SW8466010						
Arsenic, As	ND	mg/L	0.40	1.0	12/05/96	M96185,M96194
Barium, Ba	1.2	mg/L	0.50	1.0	12/05/96	M96185,M96194
Cadmium, Cd	ND	mg/L	0.0050	1.0	12/05/96	M96185,M96194
Chromium, Cr	0.03B	mg/L	0.020	1.0	12/05/96	M96185,M96194
Lead, Pb	ND	mg/L	0.050	1.0	12/05/96	M96185,M96194
Mercury, Hg	ND	mg/L	0.0020	1.0	12/06/96	M96185,M96194
Selenium, Se	ND	mg/L	0.050	1.0	12/05/96	M96185,M96194
Silver, Ag	ND	mg/L	0.040	1.0	12/05/96	M96185,M96194
TCLP(CVAA)Hg XT/SW846 7471	12/05/96	N/A				

ID: 9612015-02B
Sample ID: CA57/8-96-1202-0952

Collected: 12/02/96 09:52:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
BTEX/SW846 8020A						
Benzene	ND	mg/Kg	0.0010	5.0	12/13/96	SMSVOA411
Toluene	ND	mg/Kg	0.0010	5.0	12/13/96	SMSVOA411
Ethylbenzene	ND	mg/Kg	0.0010	5.0	12/13/96	SMSVOA411
P-&m-Xylene	ND	mg/Kg	0.0010	5.0	12/13/96	SMSVOA411
O-Xylene	ND	mg/Kg	0.0010	5.0	12/13/96	SMSVOA411

Lab ID: 9612015-03A
Sample ID: CA57/1-96-1202-0945

Collected: 12/02/96 09:45:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
BTEX/SW846 8020A						
Benzene	ND	mg/Kg	0.0010	5.0	12/13/96	SMSVOA411
Toluene	ND	mg/Kg	0.0010	5.0	12/13/96	SMSVOA411
Ethylbenzene	ND	mg/Kg	0.0010	5.0	12/13/96	SMSVOA411
P-&m-Xylene	ND	mg/Kg	0.0010	5.0	12/13/96	SMSVOA411
O-Xylene	ND	mg/Kg	0.0010	5.0	12/13/96	SMSVOA411
Diesel Range OG Soil/M8015						
Diesel Range OG in Soil	ND	mg/Kg	50	1.0	12/17/96	SDRO009

Lab ID: 9612015-04A
Sample ID: CA57/5-96-1202-0949

Collected: 12/02/96 09:49:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
BTEX/SW846 8020A						
Benzene	ND	mg/Kg	0.0010	5.0	12/13/96	SMSVOA411
Toluene	ND	mg/Kg	0.0010	5.0	12/13/96	SMSVOA411
Ethylbenzene	ND	mg/Kg	0.0010	5.0	12/13/96	SMSVOA411
P-&m-Xylene	ND	mg/Kg	0.0010	5.0	12/13/96	SMSVOA411
O-Xylene	ND	mg/Kg	0.0010	5.0	12/13/96	SMSVOA411
Diesel Range OG Soil/M8015						
Diesel Range OG in Soil	ND	mg/Kg	50	1.0	12/17/96	SDRO009

Fred L. Shore, Ph.D.
VP of Laboratory Operations

WORKORDER COMMENTS

DATE : 12/23/96
WORKORDER: 9612015

DEFINITIONS/DATA QUALIFIERS

The following are definitions, abbreviations, and data qualifiers which may have been utilized in your report:

ND = Analyte "not detected" in analysis at the sample specific detection limit.
D_F = Sample "dilution factor"
NT = Analyte "not tested" per client request.
B = Analyte was also detected in laboratory method QC blank.
E = Analyte concentration (result) is an estimated value or exceeds analysis calibration range.
LIMIT = The minimum amount of the analyte that AAL can detect utilizing the specified analysis.

Please Note: Multiply the "Limit" value (AAL's Detection Limit) by Dilution Factor (D_F) to obtain the sample specific Detection Limit.

*** Analytical results reported pertain only to the samples provided ***
*** for analysis and may not represent actual field conditions. ***
*** ***
** This report is not to be reproduced except in full, without the ***
** written approval of Assaigai Analytical Inc. ***
*** ***

RT COMMENTS

ase Note: Fractions 02B, 03A and 04A were analyzed by EPA method 8240 for X compounds.

SAIGAI ANALYTICAL LABORATORIES

Chain of Custody Record

Lab job no.: 12015 Date 12/2/96

Page 1 of 1

7300 JEFFERSON, N.E.
ALBUQUERQUE, NEW MEXICO 8
(505) 345-8964

3332 WEDGEWOOD
EL PASO, TEXAS 79925
(915) 593-6000

1910 N. BIG SPRING
MIDLAND, TEXAS 79705
(915) 570-1116

MELQUIADES ALANIS
6411 LOCAL UNO
CIUDAD JUAREZ, CHIHUAHUA MEXICO 32320

Client: Cheyenne / ICF-2, INC.

Address: 1712 S Pine St

City / State / Zip: Clovis NM 88101

Project Name / Number: DACA47-95-D-0035

Contract / Purchase Order / Quote: Dan Moore

Project Manager / Contact: Mike Landgraf

Telephone No.: 505 763 1910

Fax No.: 505 769-6780

Samplers: (Signature)

AAL Fraction Number	Field Sample Number / Location	Date	Time	Sample Type	Type / Size of Container	Preservation Temp.	Preservation Chemical	No. of Containers		TPH 8015 MOD DRO	8260 VOCs	8270 SVOCs	RCRA 8 Metals		1311 TCLP	8020 BTEX		Remarks
1A-D	CA57/7-96-1202-0951	12/2/96	9:51	Soil	3=8oz, 1=4oz glass			4		X	X	X	X					site confirmatory
2A,B	CA57/8-96-1202-0952	12/2/96	9:52	Soil	1=8oz, 1=4oz glass			2		X					X	X		excavated confirmatory
3A	CA57/1-96-1202-0945	12/2/96	9:45	Soil	1=4oz glass			1		X						X		correlation
4A	CA57/5-96-1202-0949	12/2/96	9:49	Soil	1=4oz glass			1		X						X		correlation

Relinquished by:	Date	Received by:	Relinquished by:	Date	Received by:
Signature: Troy Morales	12/2/96	Signature: S W Gonzales	Signature:	12/3/96	Signature: Monica Molina
Printed: Troy Morales	Time	Printed: S W Gonzales	Printed:	Time 941	Printed:
Company: Cheyenne		Company: TMMC Contractor	Company: TMMC		Company: AAL
Reason: Shipment		Reason: Shipment	Reason:		Reason:

Method of Shipment: Bus

Shipment No.:

Special Instructions:

Comments:

After analysis, samples are to be:

- ☐ Disposed of (additional fee)
- ☐ Stored (30 days max)
- ☐ Stored over 30 days (additional fee)
- ☐ Returned to customer

COURIER

ASSAIGAI ANALYTICAL LABORATORIES

Chain of Custody Record

(505) 345-8964

3332 WEDGEWOOD
EL PASO, TEXAS 79925
(915) 593-6000

1910 N. BIG SPRING
MIDLAND, TEXAS 79705
(915) 570-1116

MELQUIADES ALANIS
6411 LOCAL UNO
CIUDAD JUAREZ, CHIHUAHUA MEXICO 32320

Lab job no.: _____ Date _____

Page _____ of _____

Client: Cheyenne / ICI-2, INC.

Address: 1712 S Prince St

City / State / Zip: Clovis NM 88101

Project Name / Number: DMCU 97-95-D-0035

Contract / Purchase Order / Quote: Dan Moore

Project Manager / Contact: Mike Laudgrit

Telephone No.: 505 763 1910

Fax No.: 505 762 0780

Samplers: (Signature)

Field Sample Number / Location	Date	Time	Sample Type	Type / Size of Container	Preservation Temp.	Preservation Chemical	No. of Containers	TPH 8015	8260 VOA's	8270 SVOA's	Lead 7421 (Total)	1311 TCLP	6020 ATCLP	Remarks
CAS 7/7-96-1202-0951	12/2/96	9:51	Soil	3=jar, 1=glass			4	X	X	X	X			site confirmatory
CAS 7/8-96-1202-0952	12/2/96	9:52	Soil	1=8oz, 1=4oz glass			2	X				X	X	excavated confirmatory
CAS 7/1-96-1202-0945	12/2/96	9:45	Soil	1=4oz glass			1	X					X	correlation
CAS 7/5-96-1202-0949	12/2/96	9:49	Soil	1=4oz glass			1	X					X	correlation

Relinquished by:	Date	Received by:	Relinquished by:
Signature: [signature]	12/2/96	Signature: [signature]	Signature:
Printed: Troy Morales	Time	Printed: S. N. Gonzalez	Printed:
Company: Cheyenne		Company: TNM&O Courier	Company:
Reason: Shipment		Reason: Shipment	Reason:

Method of Shipment: Bus

Shipment No.:

Special Instructions:

Comments:

FIELD FILE

TNM&O
1313 13th Street
Lubbock, TX 79401

082

MO 12

DESTINATION STATION CITY & STATE: El Paso

ZIP: Tec

1 To (Recipient's Name): Assaigai Analytical Lab

Exact Street Address Cannot deliver to P.O. Box or Zip Code: ATTN: Dan Moore

City: 7300 Jefferson

State: NM

Zip:

Recipient's Package Express Account No.

2 Recipient's Phone Number (Very Important): 345 8964

Shipper's Phone Number (Very Important) ( )

Shipper's Package Express Account No.

3 From (Shipper's Name): Cheyenne Building C

Carrier

Carrier

Carrier

5 S

NBO

X

DIMENS

ASSAIGAI
ANALYTICAL
LABORATORIES, INC.
7300 Jefferson, N.E. • Albuquerque, New Mexico 87109 • (505) 345-8964 • FAX (505) 345-7259
3332 Wedgewood, E-5 • El Paso, Texas 79925 • (915) 593-6000 • FAX (915) 593-7820

Report Generated:
April 14, 1997 11:15

CERTIFICATE OF ANALYSIS
RESULTS BY SAMPLE

SENT TO: CHEYENNE BUILDING CONTRACTORS
P.O. BOX 418
CLOVIS, NM 88101

ATTN: MIKE LANDGRAF

WORKORDER # : 9703235
WORK ID : DACA47-95-D-0035
CLIENT CODE : CHE10
DATE RECEIVED : 03/26/97

Lab ID: 9703235-01A
Sample ID: CA94/15-97-0325-1106
Collected: 03/25/97 11:06:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
Diesel Range OG Soil/M8015						
Diesel Range OG in Soil	ND	mg/Kg	50	1.0	04/03/97	SDRO019

ab ID: 9703235-01B
ıple ID: CA94/15-97-0325-1106
Collected: 03/25/97 11:06:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
VOLATILES/SW846 8260						
Dichlorodifluoromethane	ND	mg/Kg	0.010	5.0	03/27/97	SMSVOA438
Chloromethane	ND	mg/Kg	0.0050	5.0	03/27/97	SMSVOA438
Iodomethane	ND	mg/Kg	0.0050	5.0	03/27/97	SMSVOA438
Acetone	ND	mg/Kg	0.0050	5.0	03/27/97	SMSVOA438
Bromomethane	ND	mg/Kg	0.0050	5.0	03/27/97	SMSVOA438
Vinyl Chloride	ND	mg/Kg	0.0050	5.0	03/27/97	SMSVOA438
Chloroethane	ND	mg/Kg	0.0050	5.0	03/27/97	SMSVOA438
Trichlorofluoromethane	ND	mg/Kg	0.0050	5.0	03/27/97	SMSVOA438
Freon 113	ND	mg/Kg	0.0050	5.0	03/27/97	SMSVOA438
Carbon Disulfide	ND	mg/Kg	0.0050	5.0	03/27/97	SMSVOA438
Acrolein	ND	mg/Kg	0.020	5.0	03/27/97	SMSVOA438
Methylene Chloride	ND	mg/Kg	0.010	5.0	03/27/97	SMSVOA438
1,1-Dichloroethene	ND	mg/Kg	0.0010	5.0	03/27/97	SMSVOA438
1,1-Dichloroethane	ND	mg/Kg	0.0010	5.0	03/27/97	SMSVOA438
Acrylonitrile	ND	mg/Kg	0.020	5.0	03/27/97	SMSVOA438
trans-1,2-Dichloroethene	ND	mg/Kg	0.0010	5.0	03/27/97	SMSVOA438
Chloroform	ND	mg/Kg	0.0010	5.0	03/27/97	SMSVOA438
1,2-Dichloroethane	ND	mg/Kg	0.0010	5.0	03/27/97	SMSVOA438
Vinyl Acetate	ND	mg/Kg	0.0050	5.0	03/27/97	SMSVOA438
cis-1,2-Dichloroethene	ND	mg/Kg	0.0010	5.0	03/27/97	SMSVOA438
2-Butanone (MEK)	ND	mg/Kg	0.0050	5.0	03/27/97	SMSVOA438
1,1,1-Trichloroethane	ND	mg/Kg	0.0010	5.0	03/27/97	SMSVOA438
Carbon Tetrachloride	ND	mg/Kg	0.0010	5.0	03/27/97	SMSVOA438
Bromodichloromethane	ND	mg/Kg	0.0010	5.0	03/27/97	SMSVOA438
1,2-Dichloropropane	ND	mg/Kg	0.0010	5.0	03/27/97	SMSVOA438
Dibromomethane	ND	mg/Kg	0.0010	5.0	03/27/97	SMSVOA438
··ns-1,3-Dichloropropene	ND	mg/Kg	0.0010	5.0	03/27/97	SMSVOA438
:hloroethene	ND	mg/Kg	0.0010	5.0	03/27/97	SMSVOA438
..lorodibromomethane	ND	mg/Kg	0.0010	5.0	03/27/97	SMSVOA438
Ethyl Methacrylate	ND	mg/Kg	0.0050	5.0	03/27/97	SMSVOA438
2-Chloroethylvinyl Ether	ND	mg/Kg	0.0050	5.0	03/27/97	SMSVOA438

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ID: 9703235-01B
Sample ID: CA94/15-97-0325-1106

Collected: 03/25/97 11:06:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
VOLATILES/SW846 8260						
1,1,2-Trichloroethane	ND	mg/Kg	0.0010	5.0	03/27/97	SMSVOA438
Benzene	ND	mg/Kg	0.0010	5.0	03/27/97	SMSVOA438
cis-1,3-Dichloropropene	ND	mg/Kg	0.0010	5.0	03/27/97	SMSVOA438
Bromoform	ND	mg/Kg	0.0010	5.0	03/27/97	SMSVOA438
4-Methyl-2-Pentanone (MIBK)	ND	mg/Kg	0.0050	5.0	03/27/97	SMSVOA438
Tetrachloroethene	ND	mg/Kg	0.0010	5.0	03/27/97	SMSVOA438
1,1,2,2-Tetrachloroethane	ND	mg/Kg	0.0010	5.0	03/27/97	SMSVOA438
1,2-Dibromoethane	ND	mg/Kg	0.0010	5.0	03/27/97	SMSVOA438
2-Hexanone (MBK)	ND	mg/Kg	0.0050	5.0	03/27/97	SMSVOA438
1,1,1,2-Tetrachloroethane	ND	mg/Kg	0.0010	5.0	03/27/97	SMSVOA438
Toluene	ND	mg/Kg	0.0010	5.0	03/27/97	SMSVOA438
Chlorobenzene	ND	mg/Kg	0.0010	5.0	03/27/97	SMSVOA438
Ethylbenzene	ND	mg/Kg	0.0010	5.0	03/27/97	SMSVOA438
1,4-Dichloro-2-Butene	ND	mg/Kg	0.010	5.0	03/27/97	SMSVOA438
Styrene	ND	mg/Kg	0.0010	5.0	03/27/97	SMSVOA438
P/M Xylene	ND	mg/Kg	0.0020	5.0	03/27/97	SMSVOA438
O-Xylene	ND	mg/Kg	0.0010	5.0	03/27/97	SMSVOA438
1,2,3-Trichloropropane	ND	mg/Kg	0.0010	5.0	03/27/97	SMSVOA438
Methyl-tert Butyl Ether	ND	mg/Kg	0.010	5.0	03/27/97	SMSVOA438
1,2-Dichlorobenzene	ND	mg/Kg	0.0010	5.0	03/27/97	SMSVOA438
1,3-Dichlorobenzene	ND	mg/Kg	0.0010	5.0	03/27/97	SMSVOA438
1,4-Dichlorobenzene	ND	mg/Kg	0.0010	5.0	03/27/97	SMSVOA438

ID: 9703235-01C
Sample ID: CA94/15-97-0325-1106

Collected: 03/25/97 11:06:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
SVOA(SOX) Soil/SW846 8270B	04/07/97	N/A				
n-Nitrosodimethylamine	ND	mg/Kg	1.0	1.8	04/09/97	SMSSVOA148
Pyridine	ND	mg/Kg	10	1.8	04/09/97	SMSSVOA148
Aniline	ND	mg/Kg	10	1.8	04/09/97	SMSSVOA148
bis(2-Chloroethyl) Ether	ND	mg/Kg	0.50	1.8	04/09/97	SMSSVOA148
2-Chlorophenol	ND	mg/Kg	0.50	1.8	04/09/97	SMSSVOA148
1,3-Dichlorobenzene	ND	mg/Kg	0.50	1.8	04/09/97	SMSSVOA148
1,4-Dichlorobenzene	ND	mg/Kg	0.50	1.8	04/09/97	SMSSVOA148
Phenol	ND	mg/Kg	0.50	1.8	04/09/97	SMSSVOA148
1,2-Dichlorobenzene	ND	mg/Kg	0.50	1.8	04/09/97	SMSSVOA148
Benzyl Alcohol	ND	mg/Kg	10	1.8	04/09/97	SMSSVOA148
bis(2-Chloroisopropyl) Ether	ND	mg/Kg	1.0	1.8	04/09/97	SMSSVOA148
2-Methylphenol / O-Cresol	ND	mg/Kg	0.50	1.8	04/09/97	SMSSVOA148
Hexachloroethane	ND	mg/Kg	0.50	1.8	04/09/97	SMSSVOA148
n-Nitroso-di-n-propylamine	ND	mg/Kg	0.50	1.8	04/09/97	SMSSVOA148
Nitrobenzene	ND	mg/Kg	0.50	1.8	04/09/97	SMSSVOA148
3/4 Methylphenol / M/P-Cresol	ND	mg/Kg	0.50	1.8	04/09/97	SMSSVOA148
Isophorone	ND	mg/Kg	0.50	1.8	04/09/97	SMSSVOA148
2-Nitrophenol	ND	mg/Kg	1.0	1.8	04/09/97	SMSSVOA148
bis(2-Chloroethoxy) Methane	ND	mg/Kg	0.50	1.8	04/09/97	SMSSVOA148
2,4-Dimethylphenol	ND	mg/Kg	1.0	1.8	04/09/97	SMSSVOA148
1,2,4-Trichlorobenzene	ND	mg/Kg	0.50	1.8	04/09/97	SMSSVOA148
Naphthalene	ND	mg/Kg	0.50	1.8	04/09/97	SMSSVOA148
Benzoic Acid	ND	mg/Kg	10	1.8	04/09/97	SMSSVOA148
2,4-Dichlorophenol	ND	mg/Kg	1.0	1.8	04/09/97	SMSSVOA148
Chloroaniline	ND	mg/Kg	10	1.8	04/09/97	SMSSVOA148
achlorobutadiene	ND	mg/Kg	0.50	1.8	04/09/97	SMSSVOA148
Methylnaphthalene	ND	mg/Kg	0.50	1.8	04/09/97	SMSSVOA148
4-Chloro-3-methylphenol	ND	mg/Kg	0.50	1.8	04/09/97	SMSSVOA148
Hexachlorocyclopentadiene	ND	mg/Kg	10	1.8	04/09/97	SMSSVOA148

Lab ID: 9703235-01C **Collected:** 03/25/97 11:06:00
Sample ID: CA94/15-97-0325-1106 **Matrix:** SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
SVOA(SOX) Soil/SW846 8270B						
2,4,6-Trichlorophenol	ND	mg/Kg	1.0	1.8	04/09/97	SMSSVOA148
2,4,5-Trichlorophenol	ND	mg/Kg	1.0	1.8	04/09/97	SMSSVOA148
2-Chloronaphthalene	ND	mg/Kg	0.50	1.8	04/09/97	SMSSVOA148
2-Nitroaniline	ND	mg/Kg	1.0	1.8	04/09/97	SMSSVOA148
Acenaphthylene	ND	mg/Kg	0.50	1.8	04/09/97	SMSSVOA148
Dimethylphthalate	ND	mg/Kg	0.50	1.8	04/09/97	SMSSVOA148
2,6-Dinitrotoluene	ND	mg/Kg	1.0	1.8	04/09/97	SMSSVOA148
Acenaphthene	ND	mg/Kg	0.50	1.8	04/09/97	SMSSVOA148
3-Nitroaniline	ND	mg/Kg	10	1.8	04/09/97	SMSSVOA148
Dibenzofuran	ND	mg/Kg	0.50	1.8	04/09/97	SMSSVOA148
2,4-Dinitrotoluene	ND	mg/Kg	2.5	1.8	04/09/97	SMSSVOA148
Fluorene	ND	mg/Kg	0.50	1.8	04/09/97	SMSSVOA148
4-Chlorophenyl-phenylether	ND	mg/Kg	0.50	1.8	04/09/97	SMSSVOA148
Diethylphthalate	ND	mg/Kg	0.50	1.8	04/09/97	SMSSVOA148
4-Nitrophenol	ND	mg/Kg	10	1.8	04/09/97	SMSSVOA148
4,6-Dinitro-2-methylphenol	ND	mg/Kg	10	1.8	04/09/97	SMSSVOA148
n-Nitrosodiphenylamine	ND	mg/Kg	0.50	1.8	04/09/97	SMSSVOA148
4-Nitroaniline	ND	mg/Kg	10	1.8	04/09/97	SMSSVOA148
4-Bromophenyl-phenylether	ND	mg/Kg	0.50	1.8	04/09/97	SMSSVOA148
Hexachlorobenzene	ND	mg/Kg	0.50	1.8	04/09/97	SMSSVOA148
Pentachlorophenol	ND	mg/Kg	10	1.8	04/09/97	SMSSVOA148
2,4-Dinitrophenol	ND	mg/Kg	10	1.8	04/09/97	SMSSVOA148
Phenanthrene	ND	mg/Kg	0.50	1.8	04/09/97	SMSSVOA148
nthracene	ND	mg/Kg	0.50	1.8	04/09/97	SMSSVOA148
-butylphthalate	ND	mg/Kg	5.0	1.8	04/09/97	SMSSVOA148
ranthene	ND	mg/Kg	0.50	1.8	04/09/97	SMSSVOA148
Pyrene	ND	mg/Kg	0.50	1.8	04/09/97	SMSSVOA148
Butylbenzylphthalate	ND	mg/Kg	0.50	1.8	04/09/97	SMSSVOA148
Benzo(a)anthracene	ND	mg/Kg	0.50	1.8	04/09/97	SMSSVOA148
Chrysene	ND	mg/Kg	0.50	1.8	04/09/97	SMSSVOA148
3,3'-Dichlorobenzidine	ND	mg/Kg	10	1.8	04/09/97	SMSSVOA148
bis(2-Ethylhexyl)phthalate	ND	mg/Kg	2.5	1.8	04/09/97	SMSSVOA148
Di-n-octyl phthalate	ND	mg/Kg	0.50	1.8	04/09/97	SMSSVOA148
Benzo(b)+(k)fluoranthene	ND	mg/Kg	0.50	1.8	04/09/97	SMSSVOA148
1-Methylnaphthalene	ND	mg/Kg	1.0	1.8	04/09/97	SMSSVOA148
Benzo(a)pyrene	ND	mg/Kg	0.50	1.8	04/09/97	SMSSVOA148
Indeno(1,2,3-cd)pyrene	ND	mg/Kg	1.0	1.8	04/09/97	SMSSVOA148
Benzo(g,h,i)perylene	ND	mg/Kg	1.0	1.8	04/09/97	SMSSVOA148
2,3,4,6-Tetrachlorophenol	ND	mg/Kg	2.5	1.8	04/09/97	SMSSVOA148
Azobenzene	ND	mg/Kg	1.0	1.8	04/09/97	SMSSVOA148
Dibenz(a,h)anthracene	ND	mg/Kg	1.0	1.8	04/09/97	SMSSVOA148

Lab ID: 9703235-01D **Collected:** 03/25/97 11:06:00
Sample ID: CA94/15-97-0325-1106 **Matrix:** SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
% SOLIDS(TCLP XT)EPA 160.3	100.00	% (Percent)				
CVAA Hg XT/SW846 7471	03/31/97	N/A				
MERCURY (CVAA)/SW846 7471						
Mercury	ND	mg/Kg	0.15	1.0	04/01/97	M97235
Metal(ICP) DIG /SW846 3050	03/31/97	N/A				
METALS-ICP/SW846 6010						
Silver, Ag	ND	mg/Kg	1.0	1.0	03/31/97	M97232
Aluminum, Al	NT	mg/Kg	25			M97232
Arsenic, As	5.6	mg/Kg	3.0	1.0	03/31/97	M97232
Barium, Ba	322	mg/Kg	0.50	1.0	03/31/97	M97232
Beryllium, Be	NT	mg/Kg	0.50			M97232

ID: 9703235-01D
Sample ID: CA94/15-97-0325-1106

Collected: 03/25/97 11:06:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
METALS-ICP/SW846 6010						
Calcium, Ca	NT	mg/Kg	15			M97232
Cadmium, Cd	ND	mg/Kg	0.20	1.0	03/31/97	M97232
Cobalt, Co	NT	mg/Kg	0.50			M97232
Chromium, Cr	4.5	mg/Kg	1.0	1.0	03/31/97	M97232
Copper, Cu	NT	mg/Kg	0.50			M97232
Iron, Fe	NT	mg/Kg	15			M97232
Potassium, K	NT	mg/Kg	10			M97232
Magnesium, Mg	NT	mg/Kg	10			M97232
Manganese, Mn	NT	mg/Kg	0.25			M97232
Sodium, Na	NT	mg/Kg	15			M97232
Nickel, Ni	4.7	mg/Kg	2.0	1.0	03/31/97	M97232
Lead, Pb	3.7	mg/Kg	2.0	1.0	03/31/97	M97232
Antimony, Sb	NT	mg/Kg	1.5			M97232
Selenium, Se	ND	mg/Kg	2.5	1.0	03/31/97	M97232
Thallium, Tl	NT	mg/Kg	20			M97232
Vanadium, V	NT	mg/Kg	0.15			M97232
Zinc, Zn	NT	mg/Kg	5.0			M97232
TCLP (ICP) DIG/1311/3005	03/31/97	N/A				
TCLP EXTRACTION/TCLP 1311	03/26/97	N/A				
TCLP METALS/1311/SW8466010						
Arsenic, As	ND	mg/L	0.40	1.0	03/31/97	M97233,M97234
Barium, Ba	1.3	mg/L	0.50	1.0	03/31/97	M97233,M97234
Cadmium, Cd	ND	mg/L	0.0050	1.0	03/31/97	M97233,M97234
hromium, Cr	ND	mg/L	0.020	1.0	03/31/97	M97233,M97234
d, Pb	ND	mg/L	0.050	1.0	03/31/97	M97233,M97234
cury, Hg	ND	mg/L	0.0020	1.0	04/01/97	M97233,M97234
Selenium, Se	ND	mg/L	0.050	1.0	03/31/97	M97233,M97234
Silver, Ag	ND	mg/L	0.040	1.0	03/31/97	M97233,M97234
TCLP(CVAA)Hg XT/SW846 7471	03/31/97	N/A				

Lab ID: 9703235-02A
Sample ID: CA94/16-97-0325-1107

Collected: 03/25/97 11:07:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
% SOLIDS(TCLP XT)EPA 160.3	100.00	% (Percent)				
Diesel Range OG Soil/M8015						
Diesel Range OG in Soil	ND	mg/Kg	50	1.0	04/03/97	SDRO019
TCLP (ICP) DIG/1311/3005	03/31/97	N/A				
TCLP EXTRACTION/TCLP 1311	03/26/97	N/A				
TCLP METALS/1311/SW8466010						
Arsenic, As	ND	mg/L	0.40	1.0	03/31/97	M97233,M97234
Barium, Ba	1.2	mg/L	0.50	1.0	03/31/97	M97233,M97234
Cadmium, Cd	ND	mg/L	0.0050	1.0	03/31/97	M97233,M97234
Chromium, Cr	ND	mg/L	0.020	1.0	03/31/97	M97233,M97234
Lead, Pb	ND	mg/L	0.050	1.0	03/31/97	M97233,M97234
Mercury, Hg	ND	mg/L	0.0020	1.0	04/01/97	M97233,M97234
Selenium, Se	ND	mg/L	0.050	1.0	03/31/97	M97233,M97234
Silver, Ag	ND	mg/L	0.040	1.0	03/31/97	M97233,M97234
TCLP(CVAA)Hg XT/SW846 7471	03/31/97	N/A				

Lab ID: 9703235-02B
Sample ID: CA94/16-97-0325-1107

Collected: 03/25/97 11:07:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
BTEX/SW846 8020A						
Benzene	ND	mg/Kg	0.0010	5.0	04/03/97	SBTXME151
Toluene	ND	mg/Kg	0.0010	5.0	04/03/97	SBTXME151
Ethylbenzene	ND	mg/Kg	0.0010	5.0	04/03/97	SBTXME151
P-&m-Xylene	ND	mg/Kg	0.0010	5.0	04/03/97	SBTXME151
O-Xylene	ND	mg/Kg	0.0010	5.0	04/03/97	SBTXME151

Lab ID: 9703235-03A
Sample ID: CA94/17-97-0325-1108

Collected: 03/25/97 11:08:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
Diesel Range OG Soil/M8015						
Diesel Range OG in Soil	ND	mg/Kg	50	1.0	04/03/97	SDRO019

Lab ID: 9703235-03B
Sample ID: CA94/17-97-0325-1108

Collected: 03/25/97 11:08:00
Matrix: SOIL

T / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
VOLATILES/SW846 8260						
Dichlorodifluoromethane	ND	mg/Kg	0.010	5.0	03/27/97	SMSVOA438
Chloromethane	ND	mg/Kg	0.0050	5.0	03/27/97	SMSVOA438
Iodomethane	ND	mg/Kg	0.0050	5.0	03/27/97	SMSVOA438
Acetone	ND	mg/Kg	0.0050	5.0	03/27/97	SMSVOA438
Bromomethane	ND	mg/Kg	0.0050	5.0	03/27/97	SMSVOA438
Vinyl Chloride	ND	mg/Kg	0.0050	5.0	03/27/97	SMSVOA438
Chloroethane	ND	mg/Kg	0.0050	5.0	03/27/97	SMSVOA438
Trichlorofluoromethane	ND	mg/Kg	0.0050	5.0	03/27/97	SMSVOA438
Freon 113	ND	mg/Kg	0.0050	5.0	03/27/97	SMSVOA438
Carbon Disulfide	ND	mg/Kg	0.0050	5.0	03/27/97	SMSVOA438
Acrolein	ND	mg/Kg	0.020	5.0	03/27/97	SMSVOA438
Methylene Chloride	ND	mg/Kg	0.010	5.0	03/27/97	SMSVOA438
1,1-Dichloroethene	ND	mg/Kg	0.0010	5.0	03/27/97	SMSVOA438
1,1-Dichloroethane	ND	mg/Kg	0.0010	5.0	03/27/97	SMSVOA438
Acrylonitrile	ND	mg/Kg	0.020	5.0	03/27/97	SMSVOA438
trans-1,2-Dichloroethene	ND	mg/Kg	0.0010	5.0	03/27/97	SMSVOA438
Chloroform	ND	mg/Kg	0.0010	5.0	03/27/97	SMSVOA438
1,2-Dichloroethane	ND	mg/Kg	0.0010	5.0	03/27/97	SMSVOA438
Vinyl Acetate	ND	mg/Kg	0.0050	5.0	03/27/97	SMSVOA438
cis-1,2-Dichloroethene	ND	mg/Kg	0.0010	5.0	03/27/97	SMSVOA438
2-Butanone (MEK)	ND	mg/Kg	0.0050	5.0	03/27/97	SMSVOA438
1,1,1-Trichloroethane	ND	mg/Kg	0.0010	5.0	03/27/97	SMSVOA438
Carbon Tetrachloride	ND	mg/Kg	0.0010	5.0	03/27/97	SMSVOA438
Bromodichloromethane	ND	mg/Kg	0.0010	5.0	03/27/97	SMSVOA438
1,2-Dichloropropane	ND	mg/Kg	0.0010	5.0	03/27/97	SMSVOA438
Dibromomethane	ND	mg/Kg	0.0010	5.0	03/27/97	SMSVOA438
trans-1,3-Dichloropropene	ND	mg/Kg	0.0010	5.0	03/27/97	SMSVOA438
Trichloroethene	ND	mg/Kg	0.0010	5.0	03/27/97	SMSVOA438
Chlorodibromomethane	ND	mg/Kg	0.0010	5.0	03/27/97	SMSVOA438
l Methacrylate	ND	mg/Kg	0.0050	5.0	03/27/97	SMSVOA438
hloroethylvinyl Ether	ND	mg/Kg	0.0050	5.0	03/27/97	SMSVOA438
1,1,2-Trichloroethane	ND	mg/Kg	0.0010	5.0	03/27/97	SMSVOA438
Benzene	ND	mg/Kg	0.0010	5.0	03/27/97	SMSVOA438

ID: 9703235-03B
Sample ID: CA94/17-97-0325-1108

Collected: 03/25/97 11:08:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
VOLATILES/SW846 8260						
cis-1,3-Dichloropropene	ND	mg/Kg	0.0010	5.0	03/27/97	SMSVOA438
Bromoform	ND	mg/Kg	0.0010	5.0	03/27/97	SMSVOA438
4-Methyl-2-Pentanone (MIBK)	ND	mg/Kg	0.0050	5.0	03/27/97	SMSVOA438
Tetrachloroethene	ND	mg/Kg	0.0010	5.0	03/27/97	SMSVOA438
1,1,2,2-Tetrachloroethane	ND	mg/Kg	0.0010	5.0	03/27/97	SMSVOA438
1,2-Dibromoethane	ND	mg/Kg	0.0010	5.0	03/27/97	SMSVOA438
2-Hexanone (MBK)	ND	mg/Kg	0.0050	5.0	03/27/97	SMSVOA438
1,1,1,2-Tetrachloroethane	ND	mg/Kg	0.0010	5.0	03/27/97	SMSVOA438
Toluene	ND	mg/Kg	0.0010	5.0	03/27/97	SMSVOA438
Chlorobenzene	ND	mg/Kg	0.0010	5.0	03/27/97	SMSVOA438
Ethylbenzene	ND	mg/Kg	0.0010	5.0	03/27/97	SMSVOA438
1,4-Dichloro-2-Butene	ND	mg/Kg	0.010	5.0	03/27/97	SMSVOA438
Styrene	ND	mg/Kg	0.0010	5.0	03/27/97	SMSVOA438
P/M Xylene	ND	mg/Kg	0.0020	5.0	03/27/97	SMSVOA438
O-Xylene	ND	mg/Kg	0.0010	5.0	03/27/97	SMSVOA438
1,2,3-Trichloropropane	ND	mg/Kg	0.0010	5.0	03/27/97	SMSVOA438
Methyl-tert Butyl Ether	ND	mg/Kg	0.010	5.0	03/27/97	SMSVOA438
1,2-Dichlorobenzene	ND	mg/Kg	0.0010	5.0	03/27/97	SMSVOA438
1,3-Dichlorobenzene	ND	mg/Kg	0.0010	5.0	03/27/97	SMSVOA438
1,4-Dichlorobenzene	ND	mg/Kg	0.0010	5.0	03/27/97	SMSVOA438

b ID: 9703235-03C
ple ID: CA94/17-97-0325-1108

Collected: 03/25/97 11:08:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
SVOA(SOX) Soil/SW846 8270B	04/07/97	N/A				
n-Nitrosodimethylamine	ND	mg/Kg	1.0	1.8	04/09/97	SMSSVOA148
Pyridine	ND	mg/Kg	10	1.8	04/09/97	SMSSVOA148
Aniline	ND	mg/Kg	10	1.8	04/09/97	SMSSVOA148
bis(2-Chloroethyl) Ether	ND	mg/Kg	0.50	1.8	04/09/97	SMSSVOA148
2-Chlorophenol	ND	mg/Kg	0.50	1.8	04/09/97	SMSSVOA148
1,3-Dichlorobenzene	ND	mg/Kg	0.50	1.8	04/09/97	SMSSVOA148
1,4-Dichlorobenzene	ND	mg/Kg	0.50	1.8	04/09/97	SMSSVOA148
Phenol	ND	mg/Kg	0.50	1.8	04/09/97	SMSSVOA148
1,2-Dichlorobenzene	ND	mg/Kg	0.50	1.8	04/09/97	SMSSVOA148
Benzyl Alcohol	ND	mg/Kg	10	1.8	04/09/97	SMSSVOA148
bis(2-Chloroisopropyl) Ether	ND	mg/Kg	1.0	1.8	04/09/97	SMSSVOA148
2-Methylphenol / O-Cresol	ND	mg/Kg	0.50	1.8	04/09/97	SMSSVOA148
Hexachloroethane	ND	mg/Kg	0.50	1.8	04/09/97	SMSSVOA148
n-Nitroso-di-n-propylamine	ND	mg/Kg	0.50	1.8	04/09/97	SMSSVOA148
Nitrobenzene	ND	mg/Kg	0.50	1.8	04/09/97	SMSSVOA148
3/4 Methylphenol / M/P-Cresol	ND	mg/Kg	0.50	1.8	04/09/97	SMSSVOA148
Isophorone	ND	mg/Kg	0.50	1.8	04/09/97	SMSSVOA148
2-Nitrophenol	ND	mg/Kg	1.0	1.8	04/09/97	SMSSVOA148
bis(2-Chloroethoxy) Methane	ND	mg/Kg	0.50	1.8	04/09/97	SMSSVOA148
2,4-Dimethylphenol	ND	mg/Kg	1.0	1.8	04/09/97	SMSSVOA148
1,2,4-Trichlorobenzene	ND	mg/Kg	0.50	1.8	04/09/97	SMSSVOA148
Naphthalene	ND	mg/Kg	0.50	1.8	04/09/97	SMSSVOA148
Benzoic Acid	ND	mg/Kg	10	1.8	04/09/97	SMSSVOA148
2,4-Dichlorophenol	ND	mg/Kg	1.0	1.8	04/09/97	SMSSVOA148
4-Chloroaniline	ND	mg/Kg	10	1.8	04/09/97	SMSSVOA148
Hexachlorobutadiene	ND	mg/Kg	0.50	1.8	04/09/97	SMSSVOA148
Methylnaphthalene	ND	mg/Kg	0.50	1.8	04/09/97	SMSSVOA148
loro-3-methylphenol	ND	mg/Kg	0.50	1.8	04/09/97	SMSSVOA148
achlorocyclopentadiene	ND	mg/Kg	10	1.8	04/09/97	SMSSVOA148
2,4,6-Trichlorophenol	ND	mg/Kg	1.0	1.8	04/09/97	SMSSVOA148
2,4,5-Trichlorophenol	ND	mg/Kg	1.0	1.8	04/09/97	SMSSVOA148

ID: 9703235-03C **Collected:** 03/25/97 11:08:00
Sample ID: CA94/17-97-0325-1108 **Matrix:** SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
SVOA(SOX) Soil/SW846 8270B						
2-Chloronaphthalene	ND	mg/Kg	0.50	1.8	04/09/97	SMSSVOA148
2-Nitroaniline	ND	mg/Kg	1.0	1.8	04/09/97	SMSSVOA148
Acenaphthylene	ND	mg/Kg	0.50	1.8	04/09/97	SMSSVOA148
Dimethylphthalate	ND	mg/Kg	0.50	1.8	04/09/97	SMSSVOA148
2,6-Dinitrotoluene	ND	mg/Kg	1.0	1.8	04/09/97	SMSSVOA148
Acenaphthene	ND	mg/Kg	0.50	1.8	04/09/97	SMSSVOA148
3-Nitroaniline	ND	mg/Kg	10	1.8	04/09/97	SMSSVOA148
Dibenzofuran	ND	mg/Kg	0.50	1.8	04/09/97	SMSSVOA148
2,4-Dinitrotoluene	ND	mg/Kg	2.5	1.8	04/09/97	SMSSVOA148
Fluorene	ND	mg/Kg	0.50	1.8	04/09/97	SMSSVOA148
4-Chlorophenyl-phenylether	ND	mg/Kg	0.50	1.8	04/09/97	SMSSVOA148
Diethylphthalate	ND	mg/Kg	0.50	1.8	04/09/97	SMSSVOA148
4-Nitrophenol	ND	mg/Kg	10	1.8	04/09/97	SMSSVOA148
4,6-Dinitro-2-methylphenol	ND	mg/Kg	10	1.8	04/09/97	SMSSVOA148
n-Nitrosodiphenylamine	ND	mg/Kg	0.50	1.8	04/09/97	SMSSVOA148
4-Nitroaniline	ND	mg/Kg	10	1.8	04/09/97	SMSSVOA148
4-Bromophenyl-phenylether	ND	mg/Kg	0.50	1.8	04/09/97	SMSSVOA148
Hexachlorobenzene	ND	mg/Kg	0.50	1.8	04/09/97	SMSSVOA148
Pentachlorophenol	ND	mg/Kg	10	1.8	04/09/97	SMSSVOA148
2,4-Dinitrophenol	ND	mg/Kg	10	1.8	04/09/97	SMSSVOA148
Phenanthrene	ND	mg/Kg	0.50	1.8	04/09/97	SMSSVOA148
Anthracene	ND	mg/Kg	0.50	1.8	04/09/97	SMSSVOA148
Di-n-butylphthalate	ND	mg/Kg	5.0	1.8	04/09/97	SMSSVOA148
luoranthene	ND	mg/Kg	0.50	1.8	04/09/97	SMSSVOA148
ne	ND	mg/Kg	0.50	1.8	04/09/97	SMSSVOA148
benzylphthalate	ND	mg/Kg	0.50	1.8	04/09/97	SMSSVOA148
Benzo(a)anthracene	ND	mg/Kg	0.50	1.8	04/09/97	SMSSVOA148
Chrysene	ND	mg/Kg	0.50	1.8	04/09/97	SMSSVOA148
3,3'-Dichlorobenzidine	ND	mg/Kg	10	1.8	04/09/97	SMSSVOA148
bis(2-Ethylhexyl)phthalate	ND	mg/Kg	2.5	1.8	04/09/97	SMSSVOA148
Di-n-octyl phthalate	ND	mg/Kg	0.50	1.8	04/09/97	SMSSVOA148
Benzo(b)+(k)fluoranthene	ND	mg/Kg	0.50	1.8	04/09/97	SMSSVOA148
1-Methylnaphthalene	ND	mg/Kg	1.0	1.8	04/09/97	SMSSVOA148
Benzo(a)pyrene	ND	mg/Kg	0.50	1.8	04/09/97	SMSSVOA148
Indeno(1,2,3-cd)pyrene	ND	mg/Kg	1.0	1.8	04/09/97	SMSSVOA148
Benzo(g,h,i)perylene	ND	mg/Kg	1.0	1.8	04/09/97	SMSSVOA148
2,3,4,6-Tetrachlorophenol	ND	mg/Kg	2.5	1.8	04/09/97	SMSSVOA148
Azobenzene	ND	mg/Kg	1.0	1.8	04/09/97	SMSSVOA148
Dibenz(a,h)anthracene	ND	mg/Kg	1.0	1.8	04/09/97	SMSSVOA148

Lab ID: 9703235-03D **Collected:** 03/25/97 11:08:00
Sample ID: CA94/17-97-0325-1108 **Matrix:** SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
% SOLIDS(TCLP XT)EPA 160.3	100.00	% (Percent)				
CVAA Hg XT/SW846 7471	03/31/97	N/A				
MERCURY (CVAA)/SW846 7471						
Mercury	ND	mg/Kg	0.15	1.0	04/01/97	M97235
Metal(ICP) DIG /SW846 3050	03/31/97	N/A				
METALS-ICP/SW846 6010						
Silver, Ag	ND	mg/Kg	1.0	1.0	03/31/97	M97232
Aluminum, Al	NT	mg/Kg	25			M97232
Arsenic, As	4.6	mg/Kg	3.0	1.0	03/31/97	M97232
m, Ba	205	mg/Kg	0.50	1.0	03/31/97	M97232
yllium, Be	NT	mg/Kg	0.50			M97232
Calcium, Ca	NT	mg/Kg	15			M97232
Cadmium, Cd	ND	mg/Kg	0.20	1.0	03/31/97	M97232

ID: 9703235-03D **Collected:** 03/25/97 11:08:00
Sample ID: CA94/17-97-0325-1108 **Matrix:** SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
METALS-ICP/SW846 6010						
Cobalt, Co	NT	mg/Kg	0.50			M97232
Chromium, Cr	4.6	mg/Kg	1.0	1.0	03/31/97	M97232
Copper, Cu	NT	mg/Kg	0.50			M97232
Iron, Fe	NT	mg/Kg	15			M97232
Potassium, K	NT	mg/Kg	10			M97232
Magnesium, Mg	NT	mg/Kg	10			M97232
Manganese, Mn	NT	mg/Kg	0.25			M97232
Sodium, Na	NT	mg/Kg	15			M97232
Nickel, Ni	5.0	mg/Kg	2.0	1.0	03/31/97	M97232
Lead, Pb	2.2	mg/Kg	2.0	1.0	03/31/97	M97232
Antimony, Sb	NT	mg/Kg	1.5			M97232
Selenium, Se	ND	mg/Kg	2.5	1.0	03/31/97	M97232
Thallium, Tl	NT	mg/Kg	20			M97232
Vanadium, V	NT	mg/Kg	0.15			M97232
Zinc, Zn	NT	mg/Kg	5.0			M97232
TCLP (ICP) DIG/1311/3005	03/31/97	N/A				
TCLP EXTRACTION/TCLP 1311	03/26/97	N/A				
TCLP METALS/1311/SW8466010						
Arsenic, As	ND	mg/L	0.40	1.0	03/31/97	M97233,M97234
Barium, Ba	1.3	mg/L	0.50	1.0	03/31/97	M97233,M97234
Cadmium, Cd	ND	mg/L	0.0050	1.0	03/31/97	M97233,M97234
Chromium, Cr	ND	mg/L	0.020	1.0	03/31/97	M97233,M97234
Lead, Pb	ND	mg/L	0.050	1.0	03/31/97	M97233,M97234
ercury, Hg	ND	mg/L	0.0020	1.0	04/01/97	M97233,M97234
nium, Se	ND	mg/L	0.050	1.0	03/31/97	M97233,M97234
r, Ag	ND	mg/L	0.040	1.0	03/31/97	M97233,M97234
TCLP(CVAA)Hg XT/SW846 7471	03/31/97	N/A				

Lab ID: 9703235-04A **Collected:** 03/25/97 11:09:00
Sample ID: CAOWS/2-97-0325-1109 **Matrix:** SOLID

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
% SOLIDS(TCLP XT)EPA 160.3	100.00	% (Percent)				
TCLP (ICP) DIG/1311/3005	03/31/97	N/A				
TCLP EXTRACTION/TCLP 1311	03/26/97	N/A				
TCLP METALS/1311/SW8466010						
Arsenic, As	ND	mg/L	0.40	1.0	03/31/97	M97233,M97234
Barium, Ba	0.5	mg/L	0.50	1.0	03/31/97	M97233,M97234
Cadmium, Cd	ND	mg/L	0.0050	1.0	03/31/97	M97233,M97234
Chromium, Cr	ND	mg/L	0.020	1.0	03/31/97	M97233,M97234
Lead, Pb	ND	mg/L	0.050	1.0	03/31/97	M97233,M97234
Mercury, Hg	ND	mg/L	0.0020	1.0	04/01/97	M97233,M97234
Selenium, Se	ND	mg/L	0.050	1.0	03/31/97	M97233,M97234
Silver, Ag	ND	mg/L	0.040	1.0	03/31/97	M97233,M97234
TCLP(CVAA)Hg XT/SW846 7471	03/31/97	N/A				

Lab ID: 9703235-04B **Collected:** 03/25/97 11:09:00
Sample ID: CAOWS/2-97-0325-1109 **Matrix:** SOLID

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
TCLP ZHE / TCLP 1311	03/26/97	N/A				

ID: 9703235-04B
Sample ID: CAOWS/2-97-0325-1109

Collected: 03/25/97 11:09:00
Matrix: SOLID

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
ZHE/VOA/METHOD 1311/8240B						
Vinyl Chloride	ND	mg/L	0.0050	5.0	04/02/97	TVOA281
1,1-Dichloroethene	ND	mg/L	0.0010	5.0	04/02/97	TVOA281
Chloroform	ND	mg/L	0.0010	5.0	04/02/97	TVOA281
1,2-Dichloroethane	ND	mg/L	0.0010	5.0	04/02/97	TVOA281
2-Butanone (MEK)	ND	mg/L	0.0050	5.0	04/02/97	TVOA281
Carbon Tetrachloride	ND	mg/L	0.0010	5.0	04/02/97	TVOA281
Trichloroethene	ND	mg/L	0.0010	5.0	04/02/97	TVOA281
Benzene	ND	mg/L	0.0010	5.0	04/02/97	TVOA281
Tetrachloroethene	ND	mg/L	0.0010	5.0	04/02/97	TVOA281
Chlorobenzene	ND	mg/L	0.0010	5.0	04/02/97	TVOA281

Lab ID: 9703235-04C
Sample ID: CAOWS/2-97-0325-1109

Collected: 03/25/97 11:09:00
Matrix: SOLID

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
TCLP SV/METHOD 1311/8270B						
1,4-Dichlorobenzene	ND	mg/L	0.0010	1.7	04/01/97	TSVOA189
2-Methylphenol / O-Cresol	0.0068	mg/L	0.0010	1.7	04/01/97	TSVOA189
4-Methylphenol / M/P-Cresol	0.0023	mg/L	0.0010	1.7	04/01/97	TSVOA189
chloroethane	ND	mg/L	0.0010	1.7	04/01/97	TSVOA189
obenzene	ND	mg/L	0.0010	1.7	04/01/97	TSVOA189
Hexachlorobutadiene	ND	mg/L	0.0010	1.7	04/01/97	TSVOA189
2,4,6-Trichlorophenol	ND	mg/L	0.010	1.7	04/01/97	TSVOA189
2,4,5-Trichlorophenol	ND	mg/L	0.010	1.7	04/01/97	TSVOA189
2,4-Dinitrotoluene	ND	mg/L	0.010	1.7	04/01/97	TSVOA189
Hexachlorobenzene	ND	mg/L	0.0010	1.7	04/01/97	TSVOA189
Pentachlorophenol	ND	mg/L	0.020	1.7	04/01/97	TSVOA189
Pyridine	ND	mg/L	0.010	1.7	04/01/97	TSVOA189
TCLP SVOA XT/1311/3520	03/27/97	N/A				

Lab ID: 9703235-04D
Sample ID: CAOWS/2-97-0325-1109

Collected: 03/25/97 11:09:00
Matrix: SOLID

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
TCLP HERB XT/SM 509B	04/02/97	N/A				
TCLP HERBICIDES/SM509B						
2,4-D	ND	mg/L	0.00010	1.1	04/07/97	THERB047
2,4,5-TP	ND	mg/L	0.00010	1.1	04/07/97	THERB047
2,4,5-T	NT	mg/L	0.00010			THERB047
TCLP PEST XT/1311/3520	04/01/97	N/A				
TCLP PESTICIDES/1311/8080A						
gamma-BHC (lindane)	ND	mg/L	0.00010	1.1	04/07/97	TPEST053
Chlordane	ND	mg/L	0.00010	1.1	04/07/97	TPEST053
Endrin	ND	mg/L	0.00010	1.1	04/07/97	TPEST053
Heptachlor	ND	mg/L	0.00010	1.1	04/07/97	TPEST053
Heptachlor Epoxide	ND	mg/L	0.00010	1.1	04/07/97	TPEST053
Methoxychlor	ND	mg/L	0.00010	1.1	04/07/97	TPEST053
aphene	ND	mg/L	0.00010	1.1	04/07/97	TPEST053

ID: 9703235-05A
Sample ID: CA94/10-97-0325-1101

Collected: 03/25/97 11:01:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
BTEX/SW846 8020A						
Benzene	ND	mg/Kg	0.0010	5.0	04/03/97	SBTXME151
Toluene	ND	mg/Kg	0.0010	5.0	04/03/97	SBTXME151
Ethylbenzene	ND	mg/Kg	0.0010	5.0	04/03/97	SBTXME151
P-&m-Xylene	ND	mg/Kg	0.0010	5.0	04/03/97	SBTXME151
O-Xylene	ND	mg/Kg	0.0010	5.0	04/03/97	SBTXME151
Diesel Range OG Soil/M8015						
Diesel Range OG in Soil	ND	mg/Kg	50	1.0	04/03/97	SDRO019

Fred L. Shore, Ph.D.
VP of Laboratory Operations

WORKORDER COMMENTS

DATE : 04/14/97
WORKORDER:

DEFINITIONS/DATA QUALIFIERS

The following are definitions, abbreviations, and data qualifiers which may have been utilized in your report:

ND = Analyte "not detected" in analysis at the sample specific detection limit.
D_F = Sample "dilution factor"
NT = Analyte "not tested" per client request.
B = Analyte was also detected in laboratory method QC blank.
E = Analyte concentration (result) is an estimated value or exceeds analysis calibration range.
LIMIT = The minimum amount of the analyte that AAL can detect utilizing the specified analysis.

Please Note: Multiply the "Limit" value (AAL's Detection Limit) by Dilution Factor (D_F) to obtain the sample specific Detection Limit.

*** Analytical results reported pertain only to the samples provided ***
*** for analysis and may not represent actual field conditions. ***
*** ***
*** This report is not to be reproduced except in full, without the ***
*** written approval of Assaigai Analytical Inc. ***

REPORT COMMENTS

ASSAIGAI ANALYTICAL LABORATORIES

Chain of Custody Record

Lab job no.: 3235 Date: 3-25-97

Page 1 of 1

7300 JEFFERSON, N.E.
ALBUQUERQUE, NEW MEXICO 87109
(505) 345-8964

3332 WEDGEWOOD
EL PASO, TEXAS 79925
(915) 593-6000

1910 N. BIG SPRING
MIDLAND, TEXAS 79705
(915) 570-1116

MELQUIADES ALANIS
6411 LOCAL UNO
CIUDAD JUAREZ, CHIHUAHUA MEXICO 32320

Client: Cheyenne / LCI-2, INC

Address: 1712 S Prince St 1

City / State / Zip: Clovis NM 88101

Project Name / Number: DACA47-95-D-0035

Contract / Purchase Order / Quote: DAN MOORE

Project Manager / Contact: Mike Landgraf

Telephone No.: 505-763-1410

Fax No.: 505-769-0780

Samplers: (Signature)

Analysis Required: 8015 TPH mod, 5260 VOA, 8270 Low Level, 8080 PCB, 1311 TCLP, 1311 Extraction, TPH 418.1, 10 Metals

AAL Fraction Number	Field Sample Number / Location	Date	Time	Sample Type	Type / Size of Container	Preservation Temp.	Preservation Chemical	No. of Containers	8015 TPH mod	5260 VOA	8270 Low Level	8080 PCB	1311 TCLP	1311 Extraction	TPH 418.1	10 Metals		Remarks
1A-D	CA94/15-97-0325-1106	3/25/97	11:06	soil	1-4oz + 3-8oz glass			4	X	X	X	X						site confirmatory
2A,B	CA94/16-97-0325-1107	3/25/97	11:07	soil	1-4oz + 1-8oz glass			2	X				X	X				excavated confirmatory
3A-D	CA94/17-97-0325-1108	3/25/97	11:08	soil	1-4oz + 3-8oz glass			4	X	X	X	X						site QC
4A-D	CA0US/2-97-0325-1109	3/25/97	11:09	concrete	4-8oz glass			4							X			Concrete waste 2nd set
5A	CA94/10-97-0325-1101	3/25/97	11:01	soil	1-4oz glass			1		X			X					correlation sample

Relinquished by:	Date / Time	Received by:	Relinquished by:	Date / Time	Received by:
Signature: [signature]	3/25/97	Signature: [signature]	Signature:	3/26/97	Signature: [signature]
Printed: Troy Moreler	Time: 2130	Printed: Sol Garcia	Printed:	Time: 917	Printed:
Company: Cheyenne		Company: Tanner Co	Company: Greyhound		Company: AAL
Reason: shipment		Reason: Bus Pkg Exp-8	Reason:		Reason:

Method of Shipment: Bus

Shipment No.:

Special Instructions:

Comments:

After analysis, samples are to be:

- ☐ Disposed of (additional fee)
- ☐ Stored (30 days max)
- ☐ Stored over 30 days (additional fee)
- ☐ Returned to customer

COL

ASSAIGAI ANALYTICAL LABORATORIES, INC.
7300 Jefferson, N.E. • Albuquerque, New Mexico 87109 • (505) 345-8964 • FAX (505) 345-7259
3332 Wedgewood, E-5 • El Paso, Texas 79925 • (915) 593-6000 • FAX (915) 593-7820

Report Generated:
April 28, 1997 16:16

CERTIFICATE OF ANALYSIS
RESULTS BY SAMPLE

SENT TO: CHEYENNE BUILDING CONTRACTORS
P.O. BOX 418
CLOVIS, NM 88101

ATTN: MIKE LANDGRAF

WORKORDER # : 9703158
WORK ID : DACA47-95-D-0035
CLIENT CODE : CHE10
DATE RECEIVED : 03/17/97

Lab ID: 9703158-01A
Sample ID: CA94/7-97-0314-1136
Collected: 03/14/97 11:36:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
Diesel Range OG Soil/M8015						
Diesel Range OG in Soil	ND	mg/Kg	50	1.0	03/26/97	SDRO18

Lab ID: 9703158-01B
Sample ID: CA94/7-97-0314-1136
Collected: 03/14/97 11:36:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
VOLATILES/SW846 8260						
Dichlorodifluoromethane	ND	mg/Kg	0.010	5.0	03/21/97	SMSVOA437
Chloromethane	ND	mg/Kg	0.0050	5.0	03/21/97	SMSVOA437
Iodomethane	ND	mg/Kg	0.0050	5.0	03/21/97	SMSVOA437
Acetone	ND	mg/Kg	0.0050	5.0	03/21/97	SMSVOA437
Bromomethane	ND	mg/Kg	0.0050	5.0	03/21/97	SMSVOA437
Vinyl Chloride	ND	mg/Kg	0.0050	5.0	03/21/97	SMSVOA437
Chloroethane	ND	mg/Kg	0.0050	5.0	03/21/97	SMSVOA437
Trichlorofluoromethane	ND	mg/Kg	0.0050	5.0	03/21/97	SMSVOA437
Freon 113	ND	mg/Kg	0.0050	5.0	03/21/97	SMSVOA437
Carbon Disulfide	ND	mg/Kg	0.0050	5.0	03/21/97	SMSVOA437
Acrolein	ND	mg/Kg	0.020	5.0	03/21/97	SMSVOA437
Methylene Chloride	0.06	mg/Kg	0.010	5.0	03/21/97	SMSVOA437
1,1-Dichloroethene	ND	mg/Kg	0.0010	5.0	03/21/97	SMSVOA437
1,1-Dichloroethane	ND	mg/Kg	0.0010	5.0	03/21/97	SMSVOA437
Acrylonitrile	ND	mg/Kg	0.020	5.0	03/21/97	SMSVOA437
trans-1,2-Dichloroethene	ND	mg/Kg	0.0010	5.0	03/21/97	SMSVOA437
Chloroform	ND	mg/Kg	0.0010	5.0	03/21/97	SMSVOA437
1,2-Dichloroethane	ND	mg/Kg	0.0010	5.0	03/21/97	SMSVOA437
Vinyl Acetate	ND	mg/Kg	0.0050	5.0	03/21/97	SMSVOA437
cis-1,2-Dichloroethene	ND	mg/Kg	0.0010	5.0	03/21/97	SMSVOA437
2-Butanone (MEK)	ND	mg/Kg	0.0050	5.0	03/21/97	SMSVOA437
1,1,1-Trichloroethane	ND	mg/Kg	0.0010	5.0	03/21/97	SMSVOA437
Carbon Tetrachloride	ND	mg/Kg	0.0010	5.0	03/21/97	SMSVOA437
Bromodichloromethane	ND	mg/Kg	0.0010	5.0	03/21/97	SMSVOA437
1,2-Dichloropropane	ND	mg/Kg	0.0010	5.0	03/21/97	SMSVOA437
Dibromomethane	ND	mg/Kg	0.0010	5.0	03/21/97	SMSVOA437
trans-1,3-Dichloropropene	ND	mg/Kg	0.0010	5.0	03/21/97	SMSVOA437
hloroethene	ND	mg/Kg	0.0010	5.0	03/21/97	SMSVOA437
rodibromomethane	ND	mg/Kg	0.0010	5.0	03/21/97	SMSVOA437
Ethyl Methacrylate	ND	mg/Kg	0.0050	5.0	03/21/97	SMSVOA437
2-Chloroethylvinyl Ether	ND	mg/Kg	0.0050	5.0	03/21/97	SMSVOA437

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THIS REPORT MAY NOT BE USED IN ANY MANNER BY THE CLIENT OR ANY OTHER THIRD PARTY TO CLAIM
PRODUCT ENDORSEMENT BY THE NATIONAL VOLUNTARY LABORATORY ACCREDITATION PROGRAM.

ID: 9703158-01B **Collected:** 03/14/97 11:36:00
Sample ID: CA94/7-97-0314-1136 **Matrix:** SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
VOLATILES/SW846 8260						
1,1,2-Trichloroethane	ND	mg/Kg	0.0010	5.0	03/21/97	SMSVOA437
Benzene	ND	mg/Kg	0.0010	5.0	03/21/97	SMSVOA437
cis-1,3-Dichloropropene	ND	mg/Kg	0.0010	5.0	03/21/97	SMSVOA437
Bromoform	ND	mg/Kg	0.0010	5.0	03/21/97	SMSVOA437
4-Methyl-2-Pentanone (MIBK)	ND	mg/Kg	0.0050	5.0	03/21/97	SMSVOA437
Tetrachloroethene	ND	mg/Kg	0.0010	5.0	03/21/97	SMSVOA437
1,1,2,2-Tetrachloroethane	ND	mg/Kg	0.0010	5.0	03/21/97	SMSVOA437
1,2-Dibromoethane	ND	mg/Kg	0.0010	5.0	03/21/97	SMSVOA437
2-Hexanone (MBK)	ND	mg/Kg	0.0050	5.0	03/21/97	SMSVOA437
1,1,1,2-Tetrachloroethane	ND	mg/Kg	0.0010	5.0	03/21/97	SMSVOA437
Toluene	ND	mg/Kg	0.0010	5.0	03/21/97	SMSVOA437
Chlorobenzene	ND	mg/Kg	0.0010	5.0	03/21/97	SMSVOA437
Ethylbenzene	ND	mg/Kg	0.0010	5.0	03/21/97	SMSVOA437
1,4-Dichloro-2-Butene	ND	mg/Kg	0.010	5.0	03/21/97	SMSVOA437
Styrene	ND	mg/Kg	0.0010	5.0	03/21/97	SMSVOA437
P/M Xylene	ND	mg/Kg	0.0020	5.0	03/21/97	SMSVOA437
O-Xylene	ND	mg/Kg	0.0010	5.0	03/21/97	SMSVOA437
1,2,3-Trichloropropane	ND	mg/Kg	0.0010	5.0	03/21/97	SMSVOA437
Methyl-tert Butyl Ether	ND	mg/Kg	0.010	5.0	03/21/97	SMSVOA437
1,2-Dichlorobenzene	ND	mg/Kg	0.0010	5.0	03/21/97	SMSVOA437
1,3-Dichlorobenzene	ND	mg/Kg	0.0010	5.0	03/21/97	SMSVOA437
1,4-Dichlorobenzene	ND	mg/Kg	0.0010	5.0	03/21/97	SMSVOA437

ID: 9703158-01C **Collected:** 03/14/97 11:36:00
Sample ID: CA94/7-97-0314-1136 **Matrix:** SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
SVOA(SOX) Soil/SW846 8270B	03/25/97	N/A				
n-Nitrosodimethylamine	ND	mg/Kg	1.0	1.5	03/27/97	SMSSVOA146
Pyridine	ND	mg/Kg	10	1.5	03/27/97	SMSSVOA146
Aniline	ND	mg/Kg	10	1.5	03/27/97	SMSSVOA146
bis(2-Chloroethyl) Ether	ND	mg/Kg	0.50	1.5	03/27/97	SMSSVOA146
2-Chlorophenol	ND	mg/Kg	0.50	1.5	03/27/97	SMSSVOA146
1,3-Dichlorobenzene	ND	mg/Kg	0.50	1.5	03/27/97	SMSSVOA146
1,4-Dichlorobenzene	ND	mg/Kg	0.50	1.5	03/27/97	SMSSVOA146
Phenol	ND	mg/Kg	0.50	1.5	03/27/97	SMSSVOA146
1,2-Dichlorobenzene	ND	mg/Kg	0.50	1.5	03/27/97	SMSSVOA146
Benzyl Alcohol	ND	mg/Kg	10	1.5	03/27/97	SMSSVOA146
bis(2-Chloroisopropyl) Ether	ND	mg/Kg	1.0	1.5	03/27/97	SMSSVOA146
2-Methylphenol / O-Cresol	ND	mg/Kg	0.50	1.5	03/27/97	SMSSVOA146
Hexachloroethane	ND	mg/Kg	0.50	1.5	03/27/97	SMSSVOA146
n-Nitroso-di-n-propylamine	ND	mg/Kg	0.50	1.5	03/27/97	SMSSVOA146
Nitrobenzene	ND	mg/Kg	0.50	1.5	03/27/97	SMSSVOA146
3/4 Methylphenol / M/P-Cresol	ND	mg/Kg	0.50	1.5	03/27/97	SMSSVOA146
Isophorone	ND	mg/Kg	0.50	1.5	03/27/97	SMSSVOA146
2-Nitrophenol	ND	mg/Kg	1.0	1.5	03/27/97	SMSSVOA146
bis(2-Chloroethoxy) Methane	ND	mg/Kg	0.50	1.5	03/27/97	SMSSVOA146
2,4-Dimethylphenol	ND	mg/Kg	1.0	1.5	03/27/97	SMSSVOA146
1,2,4-Trichlorobenzene	ND	mg/Kg	0.50	1.5	03/27/97	SMSSVOA146
Naphthalene	ND	mg/Kg	0.50	1.5	03/27/97	SMSSVOA146
Benzoic Acid	ND	mg/Kg	10	1.5	03/27/97	SMSSVOA146
2,4-Dichlorophenol	ND	mg/Kg	1.0	1.5	03/27/97	SMSSVOA146
4-Chloroaniline	ND	mg/Kg	10	1.5	03/27/97	SMSSVOA146
achlorobutadiene	ND	mg/Kg	0.50	1.5	03/27/97	SMSSVOA146
ethylnaphthalene	ND	mg/Kg	0.50	1.5	03/27/97	SMSSVOA146
4-Chloro-3-methylphenol	ND	mg/Kg	0.50	1.5	03/27/97	SMSSVOA146
Hexachlorocyclopentadiene	ND	mg/Kg	10	1.5	03/27/97	SMSSVOA146

Lab ID: 9703158-01C **Collected:** 03/14/97 11:36:00
Sample ID: CA94/7-97-0314-1136 **Matrix:** SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
SVOA(SOX) Soil/SW846 8270B						
2,4,6-Trichlorophenol	ND	mg/Kg	1.0	1.5	03/27/97	SMSSVOA146
2,4,5-Trichlorophenol	ND	mg/Kg	1.0	1.5	03/27/97	SMSSVOA146
2-Chloronaphthalene	ND	mg/Kg	0.50	1.5	03/27/97	SMSSVOA146
2-Nitroaniline	ND	mg/Kg	1.0	1.5	03/27/97	SMSSVOA146
Acenaphthylene	ND	mg/Kg	0.50	1.5	03/27/97	SMSSVOA146
Dimethylphthalate	ND	mg/Kg	0.50	1.5	03/27/97	SMSSVOA146
2,6-Dinitrotoluene	ND	mg/Kg	1.0	1.5	03/27/97	SMSSVOA146
Acenaphthene	ND	mg/Kg	0.50	1.5	03/27/97	SMSSVOA146
3-Nitroaniline	ND	mg/Kg	10	1.5	03/27/97	SMSSVOA146
Dibenzofuran	ND	mg/Kg	0.50	1.5	03/27/97	SMSSVOA146
2,4-Dinitrotoluene	ND	mg/Kg	2.5	1.5	03/27/97	SMSSVOA146
Fluorene	ND	mg/Kg	0.50	1.5	03/27/97	SMSSVOA146
4-Chlorophenyl-phenylether	ND	mg/Kg	0.50	1.5	03/27/97	SMSSVOA146
Diethylphthalate	ND	mg/Kg	0.50	1.5	03/27/97	SMSSVOA146
4-Nitrophenol	ND	mg/Kg	10	1.5	03/27/97	SMSSVOA146
4,6-Dinitro-2-methylphenol	ND	mg/Kg	10	1.5	03/27/97	SMSSVOA146
n-Nitrosodiphenylamine	ND	mg/Kg	0.50	1.5	03/27/97	SMSSVOA146
4-Nitroaniline	ND	mg/Kg	10	1.5	03/27/97	SMSSVOA146
4-Bromophenyl-phenylether	ND	mg/Kg	0.50	1.5	03/27/97	SMSSVOA146
Hexachlorobenzene	ND	mg/Kg	0.50	1.5	03/27/97	SMSSVOA146
Pentachlorophenol	ND	mg/Kg	10	1.5	03/27/97	SMSSVOA146
2,4-Dinitrophenol	ND	mg/Kg	10	1.5	03/27/97	SMSSVOA146
Phenanthrene	ND	mg/Kg	0.50	1.5	03/27/97	SMSSVOA146
Anthracene	ND	mg/Kg	0.50	1.5	03/27/97	SMSSVOA146
Di-n-butylphthalate	ND	mg/Kg	5.0	1.5	03/27/97	SMSSVOA146
Acenaphthene	ND	mg/Kg	0.50	1.5	03/27/97	SMSSVOA146
Fluoranthene	ND	mg/Kg	0.50	1.5	03/27/97	SMSSVOA146
Butylbenzylphthalate	ND	mg/Kg	0.50	1.5	03/27/97	SMSSVOA146
Benzo(a)anthracene	ND	mg/Kg	0.50	1.5	03/27/97	SMSSVOA146
Chrysene	ND	mg/Kg	0.50	1.5	03/27/97	SMSSVOA146
3,3'-Dichlorobenzidine	ND	mg/Kg	10	1.5	03/27/97	SMSSVOA146
bis(2-Ethylhexyl)phthalate	ND	mg/Kg	2.5	1.5	03/27/97	SMSSVOA146
Di-n-octyl phthalate	ND	mg/Kg	0.50	1.5	03/27/97	SMSSVOA146
Benzo(b)+(k)fluoranthene	ND	mg/Kg	0.50	1.5	03/27/97	SMSSVOA146
1-Methylnaphthalene	ND	mg/Kg	1.0	1.5	03/27/97	SMSSVOA146
Benzo(a)pyrene	ND	mg/Kg	0.50	1.5	03/27/97	SMSSVOA146
Indeno(1,2,3-cd)pyrene	ND	mg/Kg	1.0	1.5	03/27/97	SMSSVOA146
Benzo(g,h,i)perylene	ND	mg/Kg	1.0	1.5	03/27/97	SMSSVOA146
2,3,4,6-Tetrachlorophenol	ND	mg/Kg	2.5	1.5	03/27/97	SMSSVOA146
Azobenzene	ND	mg/Kg	1.0	1.5	03/27/97	SMSSVOA146
Dibenz(a,h)anthracene	ND	mg/Kg	1.0	1.5	03/27/97	SMSSVOA146

Lab ID: 9703158-01D **Collected:** 03/14/97 11:36:00
Sample ID: CA94/7-97-0314-1136 **Matrix:** SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
% SOLIDS(TCLP XT)EPA 160.3	100.00	% (Percent)				
CVAA Hg XT/SW846 7471	03/18/97	N/A				
MERCURY (CVAA)/SW846 7471						
Mercury	ND	mg/Kg	0.15	1.0	03/19/97	M97203
Metal(ICP) DIG /SW846 3050	03/19/97	N/A				
METALS-ICP/SW846 6010						
Silver, Ag	ND	mg/Kg	1.0	1.0	03/20/97	M97208
Aluminum, Al	NT	mg/Kg	25			M97208
Arsenic, As	6.4	mg/Kg	3.0	1.0	03/20/97	M97208
Barium, Ba	812	mg/Kg	0.50	1.0	03/20/97	M97208
Beryllium, Be	NT	mg/Kg	0.50			M97208

Lab ID: 9703158-01D **Collected:** 03/14/97 11:36:00
Sample ID: CA94/7-97-0314-1136 **Matrix:** SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
METALS-ICP/SW846 6010						
Calcium, Ca	NT	mg/Kg	15			M97208
Cadmium, Cd	0.29	mg/Kg	0.20	1.0	03/20/97	M97208
Cobalt, Co	NT	mg/Kg	0.50			M97208
Chromium, Cr	9.2	mg/Kg	1.0	1.0	03/20/97	M97208
Copper, Cu	NT	mg/Kg	0.50			M97208
Iron, Fe	NT	mg/Kg	15			M97208
Potassium, K	NT	mg/Kg	10			M97208
Magnesium, Mg	NT	mg/Kg	10			M97208
Manganese, Mn	NT	mg/Kg	0.25			M97208
Sodium, Na	NT	mg/Kg	15			M97208
Nickel, Ni	6.9	mg/Kg	2.0	1.0	03/20/97	M97208
Lead, Pb	2.5	mg/Kg	2.0	1.0	03/20/97	M97208
Antimony, Sb	NT	mg/Kg	1.5			M97208
Selenium, Se	ND	mg/Kg	2.5	1.0	03/20/97	M97208
Thallium, Tl	NT	mg/Kg	20			M97208
Vanadium, V	NT	mg/Kg	0.15			M97208
Zinc, Zn	NT	mg/Kg	5.0			M97208
TCLP (ICP) DIG/1311/3005	03/24/97	N/A				
TCLP EXTRACTION/TCLP 1311	03/20/97	N/A				
TCLP METALS/1311/SW8466010						
Arsenic, As	ND	mg/L	0.40	1.0	03/24/97	M97214,M97219
Barium, Ba	2.7	mg/L	0.50	1.0	03/24/97	M97214,M97219
Cadmium, Cd	ND	mg/L	0.0050	1.0	03/24/97	M97214,M97219
Chromium, Cr	ND	mg/L	0.020	1.0	03/24/97	M97214,M97219
Lead, Pb	ND	mg/L	0.050	1.0	03/24/97	M97214,M97219
Mercury, Hg	ND	mg/L	0.0020	1.0	03/26/97	M97214,M97219
Selenium, Se	ND	mg/L	0.050	1.0	03/24/97	M97214,M97219
Silver, Ag	ND	mg/L	0.040	1.0	03/24/97	M97214,M97219
TCLP(CVAA)Hg XT/SW846 7471	03/25/97	N/A				

Lab ID: 9703158-02A **Collected:** 03/14/97 11:37:00
Sample ID: CA94/8-97-0314-1137 **Matrix:** SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
% SOLIDS(TCLP XT)EPA 160.3	100.00	% (Percent)				
Diesel Range OG Soil/M8015						
Diesel Range OG in Soil	ND	mg/Kg	50	1.0	03/26/97	SDRO18
TCLP (ICP) DIG/1311/3005	03/24/97	N/A				
TCLP EXTRACTION/TCLP 1311	03/20/97	N/A				
TCLP METALS/1311/SW8466010						
Arsenic, As	ND	mg/L	0.40	1.0	03/24/97	M97214,M97219
Barium, Ba	2.0	mg/L	0.50	1.0	03/24/97	M97214,M97219
Cadmium, Cd	ND	mg/L	0.0050	1.0	03/24/97	M97214,M97219
Chromium, Cr	ND	mg/L	0.020	1.0	03/24/97	M97214,M97219
Lead, Pb	ND	mg/L	0.050	1.0	03/24/97	M97214,M97219
Mercury, Hg	ND	mg/L	0.0020	1.0	03/26/97	M97214,M97219
Selenium, Se	ND	mg/L	0.050	1.0	03/24/97	M97214,M97219
Silver, Ag	ND	mg/L	0.040	1.0	03/24/97	M97214,M97219
TCLP(CVAA)Hg XT/SW846 7471	03/25/97	N/A				

Lab ID: 9703158-02B
Sample ID: CA94/8-97-0314-1137

Collected: 03/14/97 11:37:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
BTEX/SW846 8020A						
Benzene	ND	mg/Kg	0.0010	5.0	03/20/97	SBTXME150
Toluene	ND	mg/Kg	0.0010	5.0	03/20/97	SBTXME150
Ethylbenzene	ND	mg/Kg	0.0010	5.0	03/20/97	SBTXME150
P-&m-Xylene	ND	mg/Kg	0.0020	5.0	03/20/97	SBTXME150
O-Xylene	ND	mg/Kg	0.0010	5.0	03/20/97	SBTXME150

Lab ID: 9703158-03A
Sample ID: CA94/1-97-0314-1130

Collected: 03/14/97
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
BTEX/SW846 8020A						
Benzene	ND	mg/Kg	0.0010	5.0	03/20/97	SBTXME150
Toluene	ND	mg/Kg	0.0010	5.0	03/20/97	SBTXME150
Ethylbenzene	ND	mg/Kg	0.0010	5.0	03/20/97	SBTXME150
P-&m-Xylene	ND	mg/Kg	0.0020	5.0	03/20/97	SBTXME150
O-Xylene	ND	mg/Kg	0.0010	5.0	03/20/97	SBTXME150
Diesel Range OG Soil/M8015						
Diesel Range OG in Soil	ND	mg/Kg	50	1.0	03/26/97	SDR018

Lab ID: 9703158-04A
Sample ID: CA94/2-97-0314-1131

Collected: 03/14/97
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
BTEX/SW846 8020A						
Benzene	ND	mg/Kg	0.0010	1.0	03/20/97	SBTEX150
Toluene	ND	mg/Kg	0.0010	1.0	03/20/97	SBTEX150
Ethylbenzene	ND	mg/Kg	0.0010	1.0	03/20/97	SBTEX150
P-&m-Xylene	ND	mg/Kg	0.0020	1.0	03/20/97	SBTEX150
O-Xylene	ND	mg/Kg	0.0010	1.0	03/20/97	SBTEX150
Diesel Range OG Soil/M8015						
Diesel Range OG in Soil	ND	mg/Kg	50	1.0	03/26/97	SDR018

William P. Biava
President

WORKORDER COMMENTS

DATE : 04/28/97
WORKORDER:

DEFINITIONS/DATA QUALIFIERS

The following are definitions, abbreviations, and data qualifiers which may have been utilized in your report:

ND = Analyte "not detected" in analysis at the sample specific detection limit.
D_F = Sample "dilution factor"
NT = Analyte "not tested" per client request.
B = Analyte was also detected in laboratory method QC blank.
E = Analyte concentration (result) is an estimated value or exceeds analysis calibration range.
LIMIT = The minimum amount of the analyte that AAL can detect utilizing the specified analysis.

Please Note: Multiply the "Limit" value (AAL's Detection Limit) by Dilution Factor (D_F) to obtain the sample specific Detection Limit.

REPORT COMMENTS

ASSAIGAI ANALYTICAL LABORATORIES

Chain of Custody Record

7300 JEFFERSON, N.E.
ALBUQUERQUE, NEW MEXICO 87109
(505) 345-8964

3332 WEDGEWOOD
EL PASO, TEXAS 79925
(915) 593-6000

1910 N. BIG SPRING
MIDLAND, TEXAS 79705
(915) 570-1116

MELQUIADES ALANIS
6411 LOCAL UNO
CIUDAD JUAREZ, CHIHUAHUA MEXICO 32320

Lab job no.: 3158 Date 3-14-97

Page 1 of 1

Client: LCI-2 / Cheyenne

Address: 1712 S Prince St

City / State / Zip: CLOVIS NM 88101

Project Name / Number: DACA47-95-D-0035

Contract / Purchase Order / Quote: DAN MOORE

Project Manager / Contact: Mike Landgraf

Telephone No.: 505-763-1410

Fax No.: 505-769-0780

Samplers: (Signature) [signature]

Analysis Required

AAL Fraction Number	Field Sample Number / Location	Date	Time	Sample Type	Type / Size of Container	Preservation Temp.	Preservation Chemical	No. of Containers	8015 NM TPH	8020 BTEX	8260 VOATS	8270 Semi-VOATS 600+7470 Hg using 1311 Extraction	1311 Extraction			Remarks
1HD	CA94/7-97-0314-1136	3/14/97	11:36	soil	1-4oz + 3-8oz glass			4	X		X	X	X			site confirmatory
2AP	CA94/8-97-0314-1137	3/14/97	11:37	soil	1-4oz + 1 8oz glass			2	X	X				X		extracted confirmatory
3AP	CA94/1-97-0314-1130	3/14/97		soil	1-4oz glass			1	X	X						
4AP	CA94/2-97-0314-1131	3/14/97		soil	1-4oz glass			1	X	X						

[signature] 3/14/97

Relinquished by:	Date	Received by:	Relinquished by:	Date	Received by:
Signature: [signature]	3/14/97	Signature: [signature]	Signature: [signature]	3/17/97	Signature: [signature]
Printed: Troy Morales	Time: 2:18 PM	Printed: Elvin J. Chavez	Printed: Elvin J. Chavez	Time: 10:30 AM	Printed:
Company: Cheyenne		Company: MCI	Company: MCI		Company: AAL
Reason: Shipment		Reason:	Reason:		Reason:

Method of Shipment:

Shipment No.:

Special Instructions:

Comments:

After analysis, samples are to be:

- ☐ Disposed of (additional fee)
- ☐ Stored (30 days max)
- ☐ Stored over 30 days (additional fee)
- ☐ Returned to customer

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Report Generated:
November 6, 1996 16:50

CERTIFICATE OF ANALYSIS
RESULTS BY SAMPLE

SENT TO: CHEYENNE BUILDING CONTRACTORS
P.O. BOX 418
CLOVIS, NM 88101

ATTN: MIKE LANDGRAF

WORKORDER # : 9610156
WORK ID : DACA47-95-D-0035
CLIENT CODE : CHE10
DATE RECEIVED : 10/18/96

Lab ID: 9610156-01A
Sample ID: CA92/7-96-1015-1430
Collected: 10/15/96 14:30:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
Diesel Range OG Soil/M8015						
Diesel Range OG in Soil	ND	mg/Kg	50	1.0	10/23/96	SDRO003

Lab ID: 9610156-01B
Sample ID: CA92/7-96-1015-1430
Collected: 10/15/96 14:30:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
VOLATILES/SW846 8260						
Dichlorodifluoromethane	ND	mg/Kg	0.010	5.0	10/22/96	SMSVOA399
Chloromethane	ND	mg/Kg	0.0050	5.0	10/22/96	SMSVOA399
Iodomethane	ND	mg/Kg	0.0050	5.0	10/22/96	SMSVOA399
Acetone	ND	mg/Kg	0.0050	5.0	10/22/96	SMSVOA399
Bromomethane	ND	mg/Kg	0.0050	5.0	10/22/96	SMSVOA399
Vinyl Chloride	ND	mg/Kg	0.0050	5.0	10/22/96	SMSVOA399
Chloroethane	ND	mg/Kg	0.0050	5.0	10/22/96	SMSVOA399
Trichlorofluoromethane	ND	mg/Kg	0.0050	5.0	10/22/96	SMSVOA399
Freon 113	ND	mg/Kg	0.0050	5.0	10/22/96	SMSVOA399
Carbon Disulfide	ND	mg/Kg	0.0050	5.0	10/22/96	SMSVOA399
Acrolein	ND	mg/Kg	0.020	5.0	10/22/96	SMSVOA399
Methylene Chloride	ND	mg/Kg	0.010	5.0	10/22/96	SMSVOA399
1,1-Dichloroethene	ND	mg/Kg	0.0010	5.0	10/22/96	SMSVOA399
1,1-Dichloroethane	ND	mg/Kg	0.0010	5.0	10/22/96	SMSVOA399
Acrylonitrile	ND	mg/Kg	0.020	5.0	10/22/96	SMSVOA399
trans-1,2-Dichloroethene	ND	mg/Kg	0.0010	5.0	10/22/96	SMSVOA399
Chloroform	ND	mg/Kg	0.0010	5.0	10/22/96	SMSVOA399
1,2-Dichloroethane	ND	mg/Kg	0.0010	5.0	10/22/96	SMSVOA399
Vinyl Acetate	ND	mg/Kg	0.0050	5.0	10/22/96	SMSVOA399
cis-1,2-Dichloroethene	ND	mg/Kg	0.0010	5.0	10/22/96	SMSVOA399
2-Butanone (MEK)	ND	mg/Kg	0.0050	5.0	10/22/96	SMSVOA399
1,1,1-Trichloroethane	ND	mg/Kg	0.0010	5.0	10/22/96	SMSVOA399
Carbon Tetrachloride	ND	mg/Kg	0.0010	5.0	10/22/96	SMSVOA399
Bromodichloromethane	ND	mg/Kg	0.0010	5.0	10/22/96	SMSVOA399
1,2-Dichloropropane	ND	mg/Kg	0.0010	5.0	10/22/96	SMSVOA399
Dibromomethane	ND	mg/Kg	0.0010	5.0	10/22/96	SMSVOA399
trans-1,3-Dichloropropene	ND	mg/Kg	0.0010	5.0	10/22/96	SMSVOA399
[illegible]chloroethene	ND	mg/Kg	0.0010	5.0	10/22/96	SMSVOA399
[illegible]odibromomethane	ND	mg/Kg	0.0010	5.0	10/22/96	SMSVOA399
Ethyl Methacrylate	ND	mg/Kg	0.0050	5.0	10/22/96	SMSVOA399
2-Chloroethylvinyl Ether	ND	mg/Kg	0.0050	5.0	10/22/96	SMSVOA399

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ID: 9610156-01B **Collected:** 10/15/96 14:30:00
Sample ID: CA92/7-96-1015-1430 **Matrix:** SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
VOLATILES/SW846 8260						
1,1,2-Trichloroethane	ND	mg/Kg	0.0010	5.0	10/22/96	SMSVOA399
Benzene	ND	mg/Kg	0.0010	5.0	10/22/96	SMSVOA399
cis-1,3-Dichloropropene	ND	mg/Kg	0.0010	5.0	10/22/96	SMSVOA399
Bromoform	ND	mg/Kg	0.0010	5.0	10/22/96	SMSVOA399
4-Methyl-2-Pentanone (MIBK)	ND	mg/Kg	0.0050	5.0	10/22/96	SMSVOA399
Tetrachloroethene	ND	mg/Kg	0.0010	5.0	10/22/96	SMSVOA399
1,1,2,2-Tetrachloroethane	ND	mg/Kg	0.0010	5.0	10/22/96	SMSVOA399
1,2-Dibromoethane	ND	mg/Kg	0.0010	5.0	10/22/96	SMSVOA399
2-Hexanone (MBK)	ND	mg/Kg	0.0050	5.0	10/22/96	SMSVOA399
1,1,1,2-Tetrachloroethane	ND	mg/Kg	0.0010	5.0	10/22/96	SMSVOA399
Toluene	ND	mg/Kg	0.0010	5.0	10/22/96	SMSVOA399
Chlorobenzene	ND	mg/Kg	0.0010	5.0	10/22/96	SMSVOA399
Ethylbenzene	ND	mg/Kg	0.0010	5.0	10/22/96	SMSVOA399
1,4-Dichloro-2-Butene	ND	mg/Kg	0.010	5.0	10/22/96	SMSVOA399
Styrene	ND	mg/Kg	0.0010	5.0	10/22/96	SMSVOA399
P/M Xylene	ND	mg/Kg	0.0020	5.0	10/22/96	SMSVOA399
O-Xylene	ND	mg/Kg	0.0010	5.0	10/22/96	SMSVOA399
1,2,3-Trichloropropane	ND	mg/Kg	0.0010	5.0	10/22/96	SMSVOA399
Methyl-tert Butyl Ether	ND	mg/Kg	0.010	5.0	10/22/96	SMSVOA399
1,2-Dichlorobenzene	ND	mg/Kg	0.0010	5.0	10/22/96	SMSVOA399
1,3-Dichlorobenzene	ND	mg/Kg	0.0010	5.0	10/22/96	SMSVOA399
1,4-Dichlorobenzene	ND	mg/Kg	0.0010	5.0	10/22/96	SMSVOA399

ID: 9610156-01C **Collected:** 10/15/96 14:30:00
Sample ID: CA92/7-96-1015-1430 **Matrix:** SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
SVOA(SOX) Soil/SW846 8270B	10/22/96	N/A				
n-Nitrosodimethylamine	ND	mg/Kg	1.0	1.6	11/01/96	SMSSVOA127
Pyridine	ND	mg/Kg	10	1.6	11/01/96	SMSSVOA127
Aniline	ND	mg/Kg	10	1.6	11/01/96	SMSSVOA127
bis(2-Chloroethyl) Ether	ND	mg/Kg	0.50	1.6	11/01/96	SMSSVOA127
2-Chlorophenol	ND	mg/Kg	0.50	1.6	11/01/96	SMSSVOA127
1,3-Dichlorobenzene	ND	mg/Kg	0.50	1.6	11/01/96	SMSSVOA127
1,4-Dichlorobenzene	ND	mg/Kg	0.50	1.6	11/01/96	SMSSVOA127
Phenol	ND	mg/Kg	0.50	1.6	11/01/96	SMSSVOA127
1,2-Dichlorobenzene	ND	mg/Kg	0.50	1.6	11/01/96	SMSSVOA127
Benzyl Alcohol	ND	mg/Kg	10	1.6	11/01/96	SMSSVOA127
bis(2-Chloroisopropyl) Ether	ND	mg/Kg	1.0	1.6	11/01/96	SMSSVOA127
2-Methylphenol / O-Cresol	ND	mg/Kg	0.50	1.6	11/01/96	SMSSVOA127
Hexachloroethane	ND	mg/Kg	0.50	1.6	11/01/96	SMSSVOA127
n-Nitroso-di-n-propylamine	ND	mg/Kg	0.50	1.6	11/01/96	SMSSVOA127
Nitrobenzene	ND	mg/Kg	0.50	1.6	11/01/96	SMSSVOA127
3/4 Methylphenol / M/P-Cresol	ND	mg/Kg	0.50	1.6	11/01/96	SMSSVOA127
Isophorone	ND	mg/Kg	0.50	1.6	11/01/96	SMSSVOA127
2-Nitrophenol	ND	mg/Kg	1.0	1.6	11/01/96	SMSSVOA127
bis(2-Chloroethoxy) Methane	ND	mg/Kg	0.50	1.6	11/01/96	SMSSVOA127
2,4-Dimethylphenol	ND	mg/Kg	1.0	1.6	11/01/96	SMSSVOA127
1,2,4-Trichlorobenzene	ND	mg/Kg	0.50	1.6	11/01/96	SMSSVOA127
Naphthalene	ND	mg/Kg	0.50	1.6	11/01/96	SMSSVOA127
Benzoic Acid	ND	mg/Kg	10	1.6	11/01/96	SMSSVOA127
2,4-Dichlorophenol	ND	mg/Kg	1.0	1.6	11/01/96	SMSSVOA127
-Chloroaniline	ND	mg/Kg	10	1.6	11/01/96	SMSSVOA127
ıchlorobutadiene	ND	mg/Kg	0.50	1.6	11/01/96	SMSSVOA127
;thylnaphthalene	ND	mg/Kg	0.50	1.6	11/01/96	SMSSVOA127
4-Chloro-3-methylphenol	ND	mg/Kg	0.50	1.6	11/01/96	SMSSVOA127
Hexachlorocyclopentadiene	ND	mg/Kg	10	1.6	11/01/96	SMSSVOA127

ID: 9610156-01C
Sample ID: CA92/7-96-1015-1430

Collected: 10/15/96 14:30:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
SVOA(SOX) Soil/SW846 8270B						
2,4,6-Trichlorophenol	ND	mg/Kg	1.0	1.6	11/01/96	SMSSVOA127
2,4,5-Trichlorophenol	ND	mg/Kg	1.0	1.6	11/01/96	SMSSVOA127
2-Chloronaphthalene	ND	mg/Kg	0.50	1.6	11/01/96	SMSSVOA127
2-Nitroaniline	ND	mg/Kg	1.0	1.6	11/01/96	SMSSVOA127
Acenaphthylene	ND	mg/Kg	0.50	1.6	11/01/96	SMSSVOA127
Dimethylphthalate	ND	mg/Kg	0.50	1.6	11/01/96	SMSSVOA127
2,6-Dinitrotoluene	ND	mg/Kg	1.0	1.6	11/01/96	SMSSVOA127
Acenaphthene	ND	mg/Kg	0.50	1.6	11/01/96	SMSSVOA127
3-Nitroaniline	ND	mg/Kg	10	1.6	11/01/96	SMSSVOA127
Dibenzofuran	ND	mg/Kg	0.50	1.6	11/01/96	SMSSVOA127
2,4-Dinitrotoluene	ND	mg/Kg	2.5	1.6	11/01/96	SMSSVOA127
Fluorene	ND	mg/Kg	0.50	1.6	11/01/96	SMSSVOA127
4-Chlorophenyl-phenylether	ND	mg/Kg	0.50	1.6	11/01/96	SMSSVOA127
Diethylphthalate	ND	mg/Kg	0.50	1.6	11/01/96	SMSSVOA127
4-Nitrophenol	ND	mg/Kg	10	1.6	11/01/96	SMSSVOA127
4,6-Dinitro-2-methylphenol	ND	mg/Kg	10	1.6	11/01/96	SMSSVOA127
n-Nitrosodiphenylamine	ND	mg/Kg	0.50	1.6	11/01/96	SMSSVOA127
4-Nitroaniline	ND	mg/Kg	10	1.6	11/01/96	SMSSVOA127
4-Bromophenyl-phenylether	ND	mg/Kg	0.50	1.6	11/01/96	SMSSVOA127
Hexachlorobenzene	ND	mg/Kg	0.50	1.6	11/01/96	SMSSVOA127
Pentachlorophenol	ND	mg/Kg	10	1.6	11/01/96	SMSSVOA127
2,4-Dinitrophenol	ND	mg/Kg	10	1.6	11/01/96	SMSSVOA127
Phenanthrene	ND	mg/Kg	0.50	1.6	11/01/96	SMSSVOA127
Anthracene	ND	mg/Kg	0.50	1.6	11/01/96	SMSSVOA127
Di-n-butylphthalate	25B	mg/Kg	5.0	1.6	11/01/96	SMSSVOA127
ranthene	ND	mg/Kg	0.50	1.6	11/01/96	SMSSVOA127
.ne	ND	mg/Kg	0.50	1.6	11/01/96	SMSSVOA127
Butylbenzylphthalate	ND	mg/Kg	0.50	1.6	11/01/96	SMSSVOA127
Benzo(a)anthracene	ND	mg/Kg	0.50	1.6	11/01/96	SMSSVOA127
Chrysene	ND	mg/Kg	0.50	1.6	11/01/96	SMSSVOA127
3,3'-Dichlorobenzidine	ND	mg/Kg	10	1.6	11/01/96	SMSSVOA127
bis(2-Ethylhexyl)phthalate	ND	mg/Kg	2.5	1.6	11/01/96	SMSSVOA127
Di-n-octyl phthalate	ND	mg/Kg	0.50	1.6	11/01/96	SMSSVOA127
Benzo(b)+(k)fluoranthene	ND	mg/Kg	0.50	1.6	11/01/96	SMSSVOA127
1-Methylnaphthalene	ND	mg/Kg	1.0	1.6	11/01/96	SMSSVOA127
Benzo(a)pyrene	ND	mg/Kg	0.50	1.6	11/01/96	SMSSVOA127
Indeno(1,2,3-cd)pyrene	ND	mg/Kg	1.0	1.6	11/01/96	SMSSVOA127
Benzo(g,h,i)perylene	ND	mg/Kg	1.0	1.6	11/01/96	SMSSVOA127
2,3,4,6-Tetrachlorophenol	ND	mg/Kg	2.5	1.6	11/01/96	SMSSVOA127
Azobenzene	ND	mg/Kg	1.0	1.6	11/01/96	SMSSVOA127
Dibenz(a,h)anthracene	ND	mg/Kg	1.0	1.6	11/01/96	SMSSVOA127

Lab ID: 9610156-01D
Sample ID: CA92/7-96-1015-1430

Collected: 10/15/96 14:30:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
% SOLIDS(TCLP XT)EPA 160.3	100.00	% (Percent)				
(FAA) DIG SOIL/SW846 3050	10/24/96	N/A				
BARIUM (FAA)/SW846 7080						
Barium, Ba	680	mg/Kg	25	3.0	10/28/96	M9668
CVAA Hg XT/SW846 7471	10/23/96	N/A				
MERCURY (CVAA)/SW846 7471						
Mercury	ND	mg/Kg	0.15	1.0	10/24/96	M9664
(ICP) DIG /SW846 3050	10/26/96	N/A				
ALS-ICP/SW846 6010						
Silver, Ag	ND	mg/Kg	1.0	1.0	10/24/96	M9668
Aluminum, Al	NT	mg/Kg	25			M9668

ID: 9610156-01D
Sample ID: CA92/7-96-1015-1430

Collected: 10/15/96 14:30:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
METALS-ICP/SW846 6010						
Arsenic, As	ND	mg/Kg	3.0	1.0	10/26/96	M9668
Barium, Ba	NT	mg/Kg	0.50			M9668
Beryllium, Be	NT	mg/Kg	0.50			M9668
Calcium, Ca	NT	mg/Kg	15			M9668
Cadmium, Cd	ND	mg/Kg	0.20	1.0	10/26/96	M9668
Cobalt, Co	NT	mg/Kg	0.50			M9668
Chromium, Cr	5.9	mg/Kg	1.0	1.0	10/26/96	M9668
Copper, Cu	NT	mg/Kg	0.50			M9668
Iron, Fe	NT	mg/Kg	15			M9668
Potassium, K	NT	mg/Kg	10			M9668
Magnesium, Mg	NT	mg/Kg	10			M9668
Manganese, Mn	NT	mg/Kg	0.25			M9668
Sodium, Na	NT	mg/Kg	15			M9668
Nickel, Ni	6.8	mg/Kg	2.0	1.0	10/26/96	M9668
Lead, Pb	5.0	mg/Kg	2.0	1.0	10/26/96	M9668
Antimony, Sb	NT	mg/Kg	1.5			M9668
Selenium, Se	ND	mg/Kg	2.5	1.0	10/26/96	M9668
Vanadium, V	NT	mg/Kg	0.15			M9668
Zinc, Zn	NT	mg/Kg	5.0			M9668
TCLP (ICP) DIG/1311/3005	10/25/96	N/A				
TCLP BARIUM(FAA)/1311/7080						
Barium, Ba	1.6	mg/L	0.50	1.0	10/28/96	M9670
TCLP EXTRACTION/TCLP 1311	10/21/96	N/A				
TCLP METALS/1311/SW8466010						
Arsenic, As	ND	mg/L	0.40	1.0	10/26/96	M9670,M9687
Barium, Ba	NT	mg/L	0.50			M9670,M9687
Cadmium, Cd	ND	mg/L	0.0050	1.0	10/26/96	M9670,M9687
Chromium, Cr	ND	mg/L	0.020	1.0	10/26/96	M9670,M9687
Lead, Pb	ND	mg/L	0.050	1.0	10/26/96	M9670,M9687
Mercury, Hg	ND	mg/L	0.0020	1.0	10/31/96	M9670,M9687
Selenium, Se	ND	mg/L	0.050	1.0	10/26/96	M9670,M9687
Silver, Ag	ND	mg/L	0.040	1.0	10/26/96	M9670,M9687
TCLP(CVAA)Hg XT/SW846 7471	10/29/96	N/A				

Lab ID: 9610156-02A
Sample ID: CA92/15-96-1016-1446

Collected: 10/15/96 14:46:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
Diesel Range OG Soil/M8015						
Diesel Range OG in Soil	ND	mg/Kg	50	1.0	10/23/96	SDRO003

Lab ID: 9610156-02B
Sample ID: CA92/15-96-1016-1446

Collected: 10/15/96 14:46:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
VOLATILES/SW846 8260						
Dichlorodifluoromethane	ND	mg/Kg	0.010	5.0	10/22/96	SMSVOA399
Chloromethane	ND	mg/Kg	0.0050	5.0	10/22/96	SMSVOA399
Vinylchloride	ND	mg/Kg	0.0050	5.0	10/22/96	SMSVOA399
Acetone	ND	mg/Kg	0.0050	5.0	10/22/96	SMSVOA399
Bromomethane	ND	mg/Kg	0.0050	5.0	10/22/96	SMSVOA399

ID: 9610156-02B **Collected:** 10/15/96 14:46:00
Sample ID: CA92/15-96-1016-1446 **Matrix:** SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
VOLATILES/SW846 8260						
Vinyl Chloride	ND	mg/Kg	0.0050	5.0	10/22/96	SMSVOA399
Chloroethane	ND	mg/Kg	0.0050	5.0	10/22/96	SMSVOA399
Trichlorofluoromethane	ND	mg/Kg	0.0050	5.0	10/22/96	SMSVOA399
Freon 113	ND	mg/Kg	0.0050	5.0	10/22/96	SMSVOA399
Carbon Disulfide	ND	mg/Kg	0.0050	5.0	10/22/96	SMSVOA399
Acrolein	ND	mg/Kg	0.020	5.0	10/22/96	SMSVOA399
Methylene Chloride	ND	mg/Kg	0.010	5.0	10/22/96	SMSVOA399
1,1-Dichloroethene	ND	mg/Kg	0.0010	5.0	10/22/96	SMSVOA399
1,1-Dichloroethane	ND	mg/Kg	0.0010	5.0	10/22/96	SMSVOA399
Acrylonitrile	ND	mg/Kg	0.020	5.0	10/22/96	SMSVOA399
trans-1,2-Dichloroethene	ND	mg/Kg	0.0010	5.0	10/22/96	SMSVOA399
Chloroform	ND	mg/Kg	0.0010	5.0	10/22/96	SMSVOA399
1,2-Dichloroethane	ND	mg/Kg	0.0010	5.0	10/22/96	SMSVOA399
Vinyl Acetate	ND	mg/Kg	0.0050	5.0	10/22/96	SMSVOA399
cis-1,2-Dichloroethene	ND	mg/Kg	0.0010	5.0	10/22/96	SMSVOA399
2-Butanone (MEK)	ND	mg/Kg	0.0050	5.0	10/22/96	SMSVOA399
1,1,1-Trichloroethane	ND	mg/Kg	0.0010	5.0	10/22/96	SMSVOA399
Carbon Tetrachloride	ND	mg/Kg	0.0010	5.0	10/22/96	SMSVOA399
Bromodichloromethane	ND	mg/Kg	0.0010	5.0	10/22/96	SMSVOA399
1,2-Dichloropropane	ND	mg/Kg	0.0010	5.0	10/22/96	SMSVOA399
Dibromomethane	ND	mg/Kg	0.0010	5.0	10/22/96	SMSVOA399
trans-1,3-Dichloropropene	ND	mg/Kg	0.0010	5.0	10/22/96	SMSVOA399
Trichloroethene	ND	mg/Kg	0.0010	5.0	10/22/96	SMSVOA399
Chlorodibromomethane	ND	mg/Kg	0.0010	5.0	10/22/96	SMSVOA399
Ethyl Methacrylate	ND	mg/Kg	0.0050	5.0	10/22/96	SMSVOA399
loroethylvinyl Ether	ND	mg/Kg	0.0050	5.0	10/22/96	SMSVOA399
-Trichloroethane	ND	mg/Kg	0.0010	5.0	10/22/96	SMSVOA399
Benzene	ND	mg/Kg	0.0010	5.0	10/22/96	SMSVOA399
cis-1,3-Dichloropropene	ND	mg/Kg	0.0010	5.0	10/22/96	SMSVOA399
Bromoform	ND	mg/Kg	0.0010	5.0	10/22/96	SMSVOA399
4-Methyl-2-Pentanone (MIBK)	ND	mg/Kg	0.0050	5.0	10/22/96	SMSVOA399
Tetrachloroethene	ND	mg/Kg	0.0010	5.0	10/22/96	SMSVOA399
1,1,2,2-Tetrachloroethane	ND	mg/Kg	0.0010	5.0	10/22/96	SMSVOA399
1,2-Dibromoethane	ND	mg/Kg	0.0010	5.0	10/22/96	SMSVOA399
2-Hexanone (MBK)	ND	mg/Kg	0.0050	5.0	10/22/96	SMSVOA399
1,1,1,2-Tetrachloroethane	ND	mg/Kg	0.0010	5.0	10/22/96	SMSVOA399
Toluene	ND	mg/Kg	0.0010	5.0	10/22/96	SMSVOA399
Chlorobenzene	ND	mg/Kg	0.0010	5.0	10/22/96	SMSVOA399
Ethylbenzene	ND	mg/Kg	0.0010	5.0	10/22/96	SMSVOA399
1,4-Dichloro-2-Butene	ND	mg/Kg	0.010	5.0	10/22/96	SMSVOA399
Styrene	ND	mg/Kg	0.0010	5.0	10/22/96	SMSVOA399
P/M Xylene	ND	mg/Kg	0.0020	5.0	10/22/96	SMSVOA399
O-Xylene	ND	mg/Kg	0.0010	5.0	10/22/96	SMSVOA399
1,2,3-Trichloropropane	ND	mg/Kg	0.0010	5.0	10/22/96	SMSVOA399
Methyl-tert Butyl Ether	ND	mg/Kg	0.010	5.0	10/22/96	SMSVOA399
1,2-Dichlorobenzene	ND	mg/Kg	0.0010	5.0	10/22/96	SMSVOA399
1,3-Dichlorobenzene	ND	mg/Kg	0.0010	5.0	10/22/96	SMSVOA399
1,4-Dichlorobenzene	ND	mg/Kg	0.0010	5.0	10/22/96	SMSVOA399

Lab ID: 9610156-02C **Collected:** 10/15/96 14:46:00
Sample ID: CA92/15-96-1016-1446 **Matrix:** SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
(SOX) Soil/SW846 8270B	10/22/96	N/A				
rosodimethylamine	ND	mg/Kg	1.0	1.7	11/01/96	SMSSVOA127
Pyridine	ND	mg/Kg	10	1.7	11/01/96	SMSSVOA127
Aniline	ND	mg/Kg	10	1.7	11/01/96	SMSSVOA127

ID: 9610156-02C
Sample ID: CA92/15-96-1016-1446

Collected: 10/15/96 14:46:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
SVOA(SOX) Soil/SW846 8270B						
bis(2-Chloroethyl) Ether	ND	mg/Kg	0.50	1.7	11/01/96	SMSSVOA127
2-Chlorophenol	ND	mg/Kg	0.50	1.7	11/01/96	SMSSVOA127
1,3-Dichlorobenzene	ND	mg/Kg	0.50	1.7	11/01/96	SMSSVOA127
1,4-Dichlorobenzene	ND	mg/Kg	0.50	1.7	11/01/96	SMSSVOA127
Phenol	ND	mg/Kg	0.50	1.7	11/01/96	SMSSVOA127
1,2-Dichlorobenzene	ND	mg/Kg	0.50	1.7	11/01/96	SMSSVOA127
Benzyl Alcohol	ND	mg/Kg	10	1.7	11/01/96	SMSSVOA127
bis(2-Chloroisopropyl) Ether	ND	mg/Kg	1.0	1.7	11/01/96	SMSSVOA127
2-Methylphenol / O-Cresol	ND	mg/Kg	0.50	1.7	11/01/96	SMSSVOA127
Hexachloroethane	ND	mg/Kg	0.50	1.7	11/01/96	SMSSVOA127
n-Nitroso-di-n-propylamine	ND	mg/Kg	0.50	1.7	11/01/96	SMSSVOA127
Nitrobenzene	ND	mg/Kg	0.50	1.7	11/01/96	SMSSVOA127
3/4 Methylphenol / M/P-Cresol	ND	mg/Kg	0.50	1.7	11/01/96	SMSSVOA127
Isophorone	ND	mg/Kg	0.50	1.7	11/01/96	SMSSVOA127
2-Nitrophenol	ND	mg/Kg	1.0	1.7	11/01/96	SMSSVOA127
bis(2-Chloroethoxy) Methane	ND	mg/Kg	0.50	1.7	11/01/96	SMSSVOA127
2,4-Dimethylphenol	ND	mg/Kg	1.0	1.7	11/01/96	SMSSVOA127
1,2,4-Trichlorobenzene	ND	mg/Kg	0.50	1.7	11/01/96	SMSSVOA127
Naphthalene	ND	mg/Kg	0.50	1.7	11/01/96	SMSSVOA127
Benzoic Acid	ND	mg/Kg	10	1.7	11/01/96	SMSSVOA127
2,4-Dichlorophenol	ND	mg/Kg	1.0	1.7	11/01/96	SMSSVOA127
4-Chloroaniline	ND	mg/Kg	10	1.7	11/01/96	SMSSVOA127
Hexachlorobutadiene	ND	mg/Kg	0.50	1.7	11/01/96	SMSSVOA127
2-Methylnaphthalene	ND	mg/Kg	0.50	1.7	11/01/96	SMSSVOA127
-Chloro-3-methylphenol	ND	mg/Kg	0.50	1.7	11/01/96	SMSSVOA127
chlorocyclopentadiene	ND	mg/Kg	10	1.7	11/01/96	SMSSVOA127
5-Trichlorophenol	ND	mg/Kg	1.0	1.7	11/01/96	SMSSVOA127
2,4,5-Trichlorophenol	ND	mg/Kg	1.0	1.7	11/01/96	SMSSVOA127
2-Chloronaphthalene	ND	mg/Kg	0.50	1.7	11/01/96	SMSSVOA127
2-Nitroaniline	ND	mg/Kg	1.0	1.7	11/01/96	SMSSVOA127
Acenaphthylene	ND	mg/Kg	0.50	1.7	11/01/96	SMSSVOA127
Dimethylphthalate	ND	mg/Kg	0.50	1.7	11/01/96	SMSSVOA127
2,6-Dinitrotoluene	ND	mg/Kg	1.0	1.7	11/01/96	SMSSVOA127
Acenaphthene	ND	mg/Kg	0.50	1.7	11/01/96	SMSSVOA127
3-Nitroaniline	ND	mg/Kg	10	1.7	11/01/96	SMSSVOA127
Dibenzofuran	ND	mg/Kg	0.50	1.7	11/01/96	SMSSVOA127
2,4-Dinitrotoluene	ND	mg/Kg	2.5	1.7	11/01/96	SMSSVOA127
Fluorene	ND	mg/Kg	0.50	1.7	11/01/96	SMSSVOA127
4-Chlorophenyl-phenylether	ND	mg/Kg	0.50	1.7	11/01/96	SMSSVOA127
Diethylphthalate	ND	mg/Kg	0.50	1.7	11/01/96	SMSSVOA127
4-Nitrophenol	ND	mg/Kg	10	1.7	11/01/96	SMSSVOA127
4,6-Dinitro-2-methylphenol	ND	mg/Kg	10	1.7	11/01/96	SMSSVOA127
n-Nitrosodiphenylamine	ND	mg/Kg	0.50	1.7	11/01/96	SMSSVOA127
4-Nitroaniline	ND	mg/Kg	10	1.7	11/01/96	SMSSVOA127
4-Bromophenyl-phenylether	ND	mg/Kg	0.50	1.7	11/01/96	SMSSVOA127
Hexachlorobenzene	ND	mg/Kg	0.50	1.7	11/01/96	SMSSVOA127
Pentachlorophenol	ND	mg/Kg	10	1.7	11/01/96	SMSSVOA127
2,4-Dinitrophenol	ND	mg/Kg	10	1.7	11/01/96	SMSSVOA127
Phenanthrene	ND	mg/Kg	0.50	1.7	11/01/96	SMSSVOA127
Anthracene	ND	mg/Kg	0.50	1.7	11/01/96	SMSSVOA127
Di-n-butylphthalate	30B	mg/Kg	5.0	1.7	11/01/96	SMSSVOA127
Fluoranthene	ND	mg/Kg	0.50	1.7	11/01/96	SMSSVOA127
Pyrene	ND	mg/Kg	0.50	1.7	11/01/96	SMSSVOA127
Butylbenzylphthalate	ND	mg/Kg	0.50	1.7	11/01/96	SMSSVOA127
Benzo(a)anthracene	ND	mg/Kg	0.50	1.7	11/01/96	SMSSVOA127
Chrysene	ND	mg/Kg	0.50	1.7	11/01/96	SMSSVOA127
3,3'-Dichlorobenzidine	ND	mg/Kg	10	1.7	11/01/96	SMSSVOA127
bis(2-Ethylhexyl)phthalate	ND	mg/Kg	2.5	1.7	11/01/96	SMSSVOA127
i-n-octyl phthalate	ND	mg/Kg	0.50	1.7	11/01/96	SMSSVOA127
o(b)+(k)fluoranthene	ND	mg/Kg	0.50	1.7	11/01/96	SMSSVOA127
ethylnaphthalene	ND	mg/Kg	1.0	1.7	11/01/96	SMSSVOA127
Benzo(a)pyrene	ND	mg/Kg	0.50	1.7	11/01/96	SMSSVOA127
Indeno(1,2,3-cd)pyrene	ND	mg/Kg	1.0	1.7	11/01/96	SMSSVOA127

ID: 9610156-02C **Collected:** 10/15/96 14:46:00
Sample ID: CA92/15-96-1016-1446 **Matrix:** SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
SVOA(SOX) Soil/SW846 8270B						
Benzo(g,h,i)perylene	ND	mg/Kg	1.0	1.7	11/01/96	SMSSVOA127
2,3,4,6-Tetrachlorophenol	ND	mg/Kg	2.5	1.7	11/01/96	SMSSVOA127
Azobenzene	ND	mg/Kg	1.0	1.7	11/01/96	SMSSVOA127
Dibenz(a,h)anthracene	ND	mg/Kg	1.0	1.7	11/01/96	SMSSVOA127

Lab ID: 9610156-02D **Collected:** 10/15/96 14:46:00
Sample ID: CA92/15-96-1016-1446 **Matrix:** SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
% SOLIDS(TCLP XT)EPA 160.3	100.00	% (Percent)				
(FAA) DIG SOIL/SW846 3050	10/24/96	N/A				
BARIUM (FAA)/SW846 7080						
Barium, Ba	169	mg/Kg	25	1.0	10/28/96	M9668
CVAA Hg XT/SW846 7471	10/23/96	N/A				
MERCURY (CVAA)/SW846 7471						
Mercury	ND	mg/Kg	0.15	1.0	10/24/96	M9664
Metal(ICP) DIG /SW846 3050	10/24/96	N/A				
METALS-ICP/SW846 6010						
Silver, Ag	ND	mg/Kg	1.0	1.0	10/26/96	M9668
ninum, Al	NT	mg/Kg	25			M9668
nic, As	ND	mg/Kg	3.0	1.0	10/26/96	M9668
Barium, Ba	NT	mg/Kg	0.50			M9668
Beryllium, Be	NT	mg/Kg	0.50			M9668
Calcium, Ca	NT	mg/Kg	15			M9668
Cadmium, Cd	ND	mg/Kg	0.20	1.0	10/26/96	M9668
Cobalt, Co	NT	mg/Kg	0.50			M9668
Chromium, Cr	5.8	mg/Kg	1.0	1.0	10/26/96	M9668
Copper, Cu	NT	mg/Kg	0.50			M9668
Iron, Fe	NT	mg/Kg	15			M9668
Potassium, K	NT	mg/Kg	10			M9668
Magnesium, Mg	NT	mg/Kg	10			M9668
Manganese, Mn	NT	mg/Kg	0.25			M9668
Sodium, Na	NT	mg/Kg	15			M9668
Nickel, Ni	6.0	mg/Kg	2.0	1.0	10/26/96	M9668
Lead, Pb	4.6	mg/Kg	2.0	1.0	10/26/96	M9668
Antimony, Sb	NT	mg/Kg	1.5			M9668
Selenium, Se	ND	mg/Kg	2.5	1.0	10/26/96	M9668
Vanadium, V	NT	mg/Kg	0.15			M9668
Zinc, Zn	NT	mg/Kg	5.0			M9668
TCLP (ICP) DIG/1311/3005	10/25/96	N/A				
TCLP BARIUM(FAA)/1311/7080						
Barium, Ba	1.2	mg/L	0.50	1.0	10/28/96	M9670
TCLP EXTRACTION/TCLP 1311	10/21/96	N/A				
TCLP METALS/1311/SW8466010						
Arsenic, As	ND	mg/L	0.40	1.0	10/26/96	M9670,M9687
Barium, Ba	NT	mg/L	0.50			M9670,M9687
Cadmium, Cd	ND	mg/L	0.0050	1.0	10/26/96	M9670,M9687
Chromium, Cr	ND	mg/L	0.020	1.0	10/26/96	M9670,M9687
Lead, Pb	ND	mg/L	0.050	1.0	10/26/96	M9670,M9687
Mercury, Hg	ND	mg/L	0.0020	1.0	10/31/96	M9670,M9687
Selenium, Se	ND	mg/L	0.050	1.0	10/26/96	M9670,M9687
Silver, Ag	ND	mg/L	0.040	1.0	10/26/96	M9670,M9687
TCLP(CVAA)Hg XT/SW846 7471	10/29/96	N/A				

ID: 9610156-03A **Collected:** 10/15/96 14:31:00
Sample ID: CA92/8-96-1015-1431 **Matrix:** SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
% SOLIDS(TCLP XT)EPA 160.3	100.00	% (Percent)				
TCLP (ICP) DIG/1311/3005	10/25/96	N/A				
TCLP BARIUM(FAA)/1311/7080						
Barium, Ba	1.2	mg/L	0.50	1.0	10/28/96	M9670
TCLP EXTRACTION/TCLP 1311	10/21/96	N/A				
TCLP METALS/1311/SW8466010						
Arsenic, As	ND	mg/L	0.40	1.0	10/26/96	M9670,M9687
Barium, Ba	NT	mg/L	0.50			M9670,M9687
Cadmium, Cd	ND	mg/L	0.0050	1.0	10/26/96	M9670,M9687
Chromium, Cr	ND	mg/L	0.020	1.0	10/26/96	M9670,M9687
Lead, Pb	ND	mg/L	0.050	1.0	10/26/96	M9670,M9687
Mercury, Hg	ND	mg/L	0.0020	1.0	10/31/96	M9670,M9687
Selenium, Se	ND	mg/L	0.050	1.0	10/26/96	M9670,M9687
Silver, Ag	ND	mg/L	0.040	1.0	10/26/96	M9670,M9687
TCLP(CVAA)Hg XT/SW846 7471	10/29/96	N/A				

Lab ID: 9610156-04A **Collected:** 10/16/96 14:45:00
Sample ID: CA92/14-96-1016-1445 **Matrix:** SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
[illegible]OLIDS(TCLP XT)EPA 160.3	100.00	% (Percent)				
T[illegible] (ICP) DIG/1311/3005	10/25/96	N/A				
TCLP BARIUM(FAA)/1311/7080						
Barium, Ba	1.2	mg/L	0.50	1.0	10/28/96	M9670
TCLP EXTRACTION/TCLP 1311	10/21/96	N/A				
TCLP METALS/1311/SW8466010						
Arsenic, As	ND	mg/L	0.40	1.0	10/26/96	M9670,M9687
Barium, Ba	NT	mg/L	0.50			M9670,M9687
Cadmium, Cd	ND	mg/L	0.0050	1.0	10/26/96	M9670,M9687
Chromium, Cr	ND	mg/L	0.020	1.0	10/26/96	M9670,M9687
Lead, Pb	ND	mg/L	0.050	1.0	10/26/96	M9670,M9687
Mercury, Hg	ND	mg/L	0.0020	1.0	10/31/96	M9670,M9687
Selenium, Se	ND	mg/L	0.050	1.0	10/26/96	M9670,M9687
Silver, Ag	ND	mg/L	0.040	1.0	10/26/96	M9670,M9687
TCLP(CVAA)Hg XT/SW846 7471	10/29/96	N/A				

Lab ID: 9610156-05A **Collected:** 10/15/96 14:25:00
Sample ID: CA92/2-96-1015-1425 **Matrix:** SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
BTEX/SW846 8020A						
Benzene	ND	mg/Kg	0.0010	5.0	10/29/96	SBTXME135
Toluene	ND	mg/Kg	0.0010	5.0	10/29/96	SBTXME135
Ethylbenzene	ND	mg/Kg	0.0010	5.0	10/29/96	SBTXME135
P-&m-Xylene	ND	mg/Kg	0.0010	5.0	10/29/96	SBTXME135
O-Xylene	ND	mg/Kg	0.0010	5.0	10/29/96	SBTXME135
Diesel Range OG Soil/M8015						
Diesel Range OG in Soil	ND	mg/Kg	50	1.0	10/23/96	SDRO003

ID: 9610156-06A
Sample ID: CA92/6-96-1015-1429

Collected: 10/15/96 14:29:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
BTEX/SW846 8020A						
Benzene	ND	mg/Kg	0.0010	5.0	10/29/96	SBTXME135
Toluene	ND	mg/Kg	0.0010	5.0	10/29/96	SBTXME135
Ethylbenzene	ND	mg/Kg	0.0010	5.0	10/29/96	SBTXME135
P-&m-Xylene	ND	mg/Kg	0.0010	5.0	10/29/96	SBTXME135
O-Xylene	ND	mg/Kg	0.0010	5.0	10/29/96	SBTXME135
Diesel Range OG Soil/M8015						
Diesel Range OG in Soil	ND	mg/Kg	50	1.0	10/23/96	SDRO003

Fred L. Shore, Ph.D.
VP of Laboratory Operations

WORKORDER COMMENTS

DATE : 11/06/96
WORKORDER:

DEFINITIONS/DATA QUALIFIERS

The following are definitions, abbreviations, and data qualifiers which may have been utilized in your report:

ND = Analyte "not detected" in analysis at the sample specific detection limit.
D_F = Sample "dilution factor"
NT = Analyte "not tested" per client request.
B = Analyte was also detected in laboratory method QC blank.
E = Analyte concentration (result) is an estimated value or exceeds analysis calibration range.
LIMIT = The minimum amount of the analyte that AAL can detect utilizing the specified analysis.

Please Note: Multiply the "Limit" value (AAL's Detection Limit) by Dilution Factor (D_F) to obtain the sample specific Detection Limit.

*** Analytical results reported pertain only to the samples provided ***
*** for analysis and may not represent actual field conditions. ***
*** ***
*** This report is not to be reproduced except in full, without the ***
*** written approval of Assaigai Analytical Inc. ***

REPORT COMMENTS

ASSAIGAI ANALYTICAL LABORATORIES

Chain of Custody Record

Lab job no.: 10156 Date 10/18/96

Page 1 of 1

7300 JEFFERSON, N.E.
ALBUQUERQUE, NEW MEXICO 87109
(505) 345-8964

3332 WEDGEWOOD
EL PASO, TEXAS 79925
(915) 593-6000

1910 N. BIG SPRING
MIDLAND, TEXAS 79705
(915) 570-1116

MELQUIADES ALANIS
6411 LOCAL UNO
CIUDAD JUAREZ, CHIHUAHUA MEXICO 32320

Client: Cheyenne / ICI-2, INC

Project Manager / Contact: Mike Landsiedt

Address: 1712 S Prince St

Telephone No.: 505-763-1410

City / State / Zip: CLOVIS NM 88101

Fax No.: 505-769-0780

Project Name / Number: DACA47-95-D-0035

Samplers: (Signature)

Contract / Purchase Order / Quote: Dan Moore

Analysis Required

AAL Fraction Number	Field Sample Number / Location	Date	Time	Sample Type	Type / Size of Container	Preservation Temp.	Preservation Chemical	No. of containers	8015 MOD TRPH	8260 VOA's	8270 Semi Vol's	6010 + 7470 ugpm Digestion	8020 BTEX	1311 TCLP			Remarks
1A-D	CH92/7-96-1015-1430	2:30	10/15	soil	1-4oz, 3-8oz glass			4	X	X	X	X					site confirmatory
2A-D	CH92/15-96-1016-1496	2:46	10/16	soil	" "			4	X	X	X	X					"
3A	CH92/8-96-1015-1431	10/15	2:31	soil	1-8oz glass			1						X			[illegible] material
4A	CH92/14-96-1016-1495	10/16	2:45	soil	"			1						X			confirmatory
5A	CH92/2-96-1015-1425	10/15	2:25	soil	1-4oz glass			1	X				X				[illegible]
6A	CH92/6-96-1015-1429	10/15	2:29	soil	"			1	X				X				[illegible]

Relinquished by:	Date	Received by:	Relinquished by:	Date	Received by:
Signature: [signature]	10/17/96	Signature: Sally Gonzales	Signature:	10/18/96	Signature: [signature]
Printed: Troy Rivera	Time 3:00	Printed:	Printed:	Time 925	Printed:
Company: City		Company: TNM&O	Company: TNM&O		Company: AAL
Reason: Shipment		Reason: Shipment	Reason:		Reason:

Method of Shipment: Bus

Shipment No.:

Special Instructions: Handle with Care!

Comments: C.O.C.

After analysis, samples are to be:

- ☐ Disposed of (additional fee)
- ☐ Stored (30 days max)
- ☐ Stored over 30 days (additional fee)
- ☐ Returned to customer

CO

ASSAIGAI
ANALYTICAL
LABORATORIES, INC.
7300 Jefferson, N.E. • Albuquerque, New Mexico 87109 • (505) 345-8964 • FAX (505) 345-7259
3332 Wedgewood, E-5 • El Paso, Texas 79925 • (915) 593-6000 • FAX (915) 593-7820

Report Generated:
October 4, 1996 13:46

CERTIFICATE OF ANALYSIS
RESULTS BY SAMPLE

SENT TO: CHEYENNE BUILDING CONTRACTORS
P.O. BOX 418
CLOVIS, NM 88101

ATTN: MIKE LANDGRAF

WORKORDER # : 9609071
WORK ID : OWS REMOVAL
CLIENT CODE : CHE10
DATE RECEIVED : 09/08/96

Lab ID: 9609071-01A
Sample ID: CA70/7-96-0906-1210
Collected: 09/06/96 12:10:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
Diesel Range OG Soil/M8015						
Diesel Range OG in Soil	1500	mg/Kg	50	10	09/23/96	SDRO001
HCs DSL XT/CAL DHS 8015M	09/19/96	N/A				

Lab ID: 9609071-01B
Sample ID: CA70/7-96-0906-1210
Collected: 09/06/96 12:10:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
VOLATILES/SW846 8260						
Dichlorodifluoromethane	ND	mg/Kg	0.010	50	09/13/96	SMSVOA393
Chloromethane	ND	mg/Kg	0.0050	50	09/13/96	SMSVOA393
Iodomethane	ND	mg/Kg	0.0050	50	09/13/96	SMSVOA393
Acetone	ND	mg/Kg	0.0050	50	09/13/96	SMSVOA393
Bromomethane	ND	mg/Kg	0.0050	50	09/13/96	SMSVOA393
Vinyl Chloride	ND	mg/Kg	0.0050	50	09/13/96	SMSVOA393
Chloroethane	ND	mg/Kg	0.0050	50	09/13/96	SMSVOA393
Trichlorofluoromethane	ND	mg/Kg	0.0050	50	09/13/96	SMSVOA393
Freon 113 70	ND	mg/Kg	0.0050	50	09/13/96	SMSVOA393
Carbon Disulfide	ND	mg/Kg	0.0050	50	09/13/96	SMSVOA393
Acrolein	ND	mg/Kg	0.020	50	09/13/96	SMSVOA393
Methylene Chloride	ND	mg/Kg	0.010	50	09/13/96	SMSVOA393
1,1-Dichloroethene	ND	mg/Kg	0.0010	50	09/13/96	SMSVOA393
1,1-Dichloroethane	ND	mg/Kg	0.0010	50	09/13/96	SMSVOA393
Acrylonitrile	ND	mg/Kg	0.020	50	09/13/96	SMSVOA393
trans-1,2-Dichloroethene	ND	mg/Kg	0.0010	50	09/13/96	SMSVOA393
Chloroform	ND	mg/Kg	0.0010	50	09/13/96	SMSVOA393
1,2-Dichloroethane	ND	mg/Kg	0.0010	50	09/13/96	SMSVOA393
Vinyl Acetate	ND	mg/Kg	0.0050	50	09/13/96	SMSVOA393
cis-1,2-Dichloroethene	ND	mg/Kg	0.0010	50	09/13/96	SMSVOA393
2-Butanone (MEK)	ND	mg/Kg	0.0050	50	09/13/96	SMSVOA393
1,1,1-Trichloroethane	ND	mg/Kg	0.0010	50	09/13/96	SMSVOA393
Carbon Tetrachloride	ND	mg/Kg	0.0010	50	09/13/96	SMSVOA393
Bromodichloromethane	ND	mg/Kg	0.0010	50	09/13/96	SMSVOA393
1,2-Dichloropropane	ND	mg/Kg	0.0010	50	09/13/96	SMSVOA393
ibromomethane	ND	mg/Kg	0.0010	50	09/13/96	SMSVOA393
s-1,3-Dichloropropene	ND	mg/Kg	0.0010	50	09/13/96	SMSVOA393
loroethene	ND	mg/Kg	0.0010	50	09/13/96	SMSVOA393
Chlorodibromomethane	ND	mg/Kg	0.0010	50	09/13/96	SMSVOA393
Ethyl Methacrylate	ND	mg/Kg	0.0050	50	09/13/96	SMSVOA393

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L ID: 9609071-01B **Collected:** 09/06/96 12:10:00
Sample ID: CA70/7-96-0906-1210 **Matrix:** SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
VOLATILES/SW846 8260						
2-Chloroethylvinyl Ether	ND	mg/Kg	0.0050	50	09/13/96	SMSVOA393
1,1,2-Trichloroethane	ND	mg/Kg	0.0010	50	09/13/96	SMSVOA393
Benzene	ND	mg/Kg	0.0010	50	09/13/96	SMSVOA393
cis-1,3-Dichloropropene	ND	mg/Kg	0.0010	50	09/13/96	SMSVOA393
Bromoform	ND	mg/Kg	0.0010	50	09/13/96	SMSVOA393
4-Methyl-2-Pentanone (MIBK)	ND	mg/Kg	0.0050	50	09/13/96	SMSVOA393
Tetrachloroethene	ND	mg/Kg	0.0010	50	09/13/96	SMSVOA393
1,1,2,2-Tetrachloroethane	ND	mg/Kg	0.0010	50	09/13/96	SMSVOA393
1,2-Dibromoethane	ND	mg/Kg	0.0010	50	09/13/96	SMSVOA393
2-Hexanone (MBK)	ND	mg/Kg	0.0050	50	09/13/96	SMSVOA393
1,1,1,2-Tetrachloroethane	ND	mg/Kg	0.0010	50	09/13/96	SMSVOA393
Toluene	ND	mg/Kg	0.0010	50	09/13/96	SMSVOA393
Chlorobenzene	ND	mg/Kg	0.0010	50	09/13/96	SMSVOA393
Ethylbenzene	0.067	mg/Kg	0.0010	50	09/13/96	SMSVOA393
1,4-Dichloro-2-Butene	ND	mg/Kg	0.010	50	09/13/96	SMSVOA393
Styrene	ND	mg/Kg	0.0010	50	09/13/96	SMSVOA393
P/M Xylene	5.6	mg/Kg	0.0020	50	09/13/96	SMSVOA393
O-Xylene	1.4	mg/Kg	0.0010	50	09/13/96	SMSVOA393
1,2,3-Trichloropropane	ND	mg/Kg	0.0010	50	09/13/96	SMSVOA393
Methyl-tert Butyl Ether	ND	mg/Kg	0.010	50	09/13/96	SMSVOA393
1,2-Dichlorobenzene	ND	mg/Kg	0.0010	50	09/13/96	SMSVOA393
1,3-Dichlorobenzene	ND	mg/Kg	0.0010	50	09/13/96	SMSVOA393
1,4-Dichlorobenzene	ND	mg/Kg	0.0010	50	09/13/96	SMSVOA393

L ID: 9609071-01C **Collected:** 09/06/96 12:10:00
Sample ID: CA70/7-96-0906-1210 **Matrix:** SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
SVOA(SOX) Soil/SW846 8270B	09/18/96	N/A				
n-Nitrosodimethylamine	ND	mg/Kg	1.0	1.7	10/03/96	SMSSVOA122
Pyridine	ND	mg/Kg	10	1.7	10/03/96	SMSSVOA122
Aniline	ND	mg/Kg	10	1.7	10/03/96	SMSSVOA122
bis(2-Chloroethyl) Ether	ND	mg/Kg	0.50	1.7	10/03/96	SMSSVOA122
2-Chlorophenol	ND	mg/Kg	0.50	1.7	10/03/96	SMSSVOA122
1,3-Dichlorobenzene	ND	mg/Kg	0.50	1.7	10/03/96	SMSSVOA122
1,4-Dichlorobenzene	ND	mg/Kg	0.50	1.7	10/03/96	SMSSVOA122
Phenol	ND	mg/Kg	0.50	1.7	10/03/96	SMSSVOA122
1,2-Dichlorobenzene	ND	mg/Kg	0.50	1.7	10/03/96	SMSSVOA122
Benzyl Alcohol	ND	mg/Kg	10	1.7	10/03/96	SMSSVOA122
bis(2-Chloroisopropyl) Ether	ND	mg/Kg	1.0	1.7	10/03/96	SMSSVOA122
2-Methylphenol / O-Cresol	ND	mg/Kg	0.50	1.7	10/03/96	SMSSVOA122
Hexachloroethane	ND	mg/Kg	0.50	1.7	10/03/96	SMSSVOA122
n-Nitroso-di-n-propylamine	ND	mg/Kg	0.50	1.7	10/03/96	SMSSVOA122
Nitrobenzene	ND	mg/Kg	0.50	1.7	10/03/96	SMSSVOA122
3/4 Methylphenol / M/P-Cresol	ND	mg/Kg	0.50	1.7	10/03/96	SMSSVOA122
Isophorone	ND	mg/Kg	0.50	1.7	10/03/96	SMSSVOA122
2-Nitrophenol	ND	mg/Kg	1.0	1.7	10/03/96	SMSSVOA122
bis(2-Chloroethoxy) Methane	ND	mg/Kg	0.50	1.7	10/03/96	SMSSVOA122
2,4-Dimethylphenol	ND	mg/Kg	1.0	1.7	10/03/96	SMSSVOA122
1,2,4-Trichlorobenzene	ND	mg/Kg	0.50	1.7	10/03/96	SMSSVOA122
Naphthalene	2.0	mg/Kg	0.50	1.7	10/03/96	SMSSVOA122
Benzoic Acid	ND	mg/Kg	10	1.7	10/03/96	SMSSVOA122
4-Dichlorophenol	ND	mg/Kg	1.0	1.7	10/03/96	SMSSVOA122
'loroaniline	ND	mg/Kg	10	1.7	10/03/96	SMSSVOA122
.achlorobutadiene	ND	mg/Kg	0.50	1.7	10/03/96	SMSSVOA122
2-Methylnaphthalene	3.2	mg/Kg	0.50	1.7	10/03/96	SMSSVOA122
4-Chloro-3-methylphenol	ND	mg/Kg	0.50	1.7	10/03/96	SMSSVOA122

L ID: 9609071-01C **Collected:** 09/06/96 12:10:00
Sample ID: CA70/7-96-0906-1210 **Matrix:** SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
SVOA(SOX) Soil/SW846 8270B						
Hexachlorocyclopentadiene	ND	mg/Kg	10	1.7	10/03/96	SMSSVOA122
2,4,6-Trichlorophenol	ND	mg/Kg	1.0	1.7	10/03/96	SMSSVOA122
2,4,5-Trichlorophenol	ND	mg/Kg	1.0	1.7	10/03/96	SMSSVOA122
2-Chloronaphthalene	ND	mg/Kg	0.50	1.7	10/03/96	SMSSVOA122
2-Nitroaniline	ND	mg/Kg	1.0	1.7	10/03/96	SMSSVOA122
Acenaphthylene	ND	mg/Kg	0.50	1.7	10/03/96	SMSSVOA122
Dimethylphthalate	ND	mg/Kg	0.50	1.7	10/03/96	SMSSVOA122
2,6-Dinitrotoluene	ND	mg/Kg	1.0	1.7	10/03/96	SMSSVOA122
Acenaphthene	ND	mg/Kg	0.50	1.7	10/03/96	SMSSVOA122
3-Nitroaniline	ND	mg/Kg	10	1.7	10/03/96	SMSSVOA122
Dibenzofuran	ND	mg/Kg	0.50	1.7	10/03/96	SMSSVOA122
2,4-Dinitrotoluene	ND	mg/Kg	2.5	1.7	10/03/96	SMSSVOA122
Fluorene	ND	mg/Kg	0.50	1.7	10/03/96	SMSSVOA122
4-Chlorophenyl-phenylether	ND	mg/Kg	0.50	1.7	10/03/96	SMSSVOA122
Diethylphthalate	ND	mg/Kg	0.50	1.7	10/03/96	SMSSVOA122
4-Nitrophenol	ND	mg/Kg	10	1.7	10/03/96	SMSSVOA122
4,6-Dinitro-2-methylphenol	ND	mg/Kg	10	1.7	10/03/96	SMSSVOA122
n-Nitrosodiphenylamine	ND	mg/Kg	0.50	1.7	10/03/96	SMSSVOA122
4-Nitroaniline	ND	mg/Kg	10	1.7	10/03/96	SMSSVOA122
4-Bromophenyl-phenylether	ND	mg/Kg	0.50	1.7	10/03/96	SMSSVOA122
Hexachlorobenzene	ND	mg/Kg	0.50	1.7	10/03/96	SMSSVOA122
Pentachlorophenol	ND	mg/Kg	10	1.7	10/03/96	SMSSVOA122
2,4-Dinitrophenol	ND	mg/Kg	10	1.7	10/03/96	SMSSVOA122
'henanthrene	ND	mg/Kg	0.50	1.7	10/03/96	SMSSVOA122
·nthracene	ND	mg/Kg	0.50	1.7	10/03/96	SMSSVOA122
·butylphthalate	ND	mg/Kg	5.0	1.7	10/03/96	SMSSVOA122
ı ..oranthene	ND	mg/Kg	0.50	1.7	10/03/96	SMSSVOA122
Pyrene	ND	mg/Kg	0.50	1.7	10/03/96	SMSSVOA122
Butylbenzylphthalate	ND	mg/Kg	0.50	1.7	10/03/96	SMSSVOA122
Benzo(a)anthracene	ND	mg/Kg	0.50	1.7	10/03/96	SMSSVOA122
Chrysene	ND	mg/Kg	0.50	1.7	10/03/96	SMSSVOA122
3,3'-Dichlorobenzidine	ND	mg/Kg	10	1.7	10/03/96	SMSSVOA122
bis(2-Ethylhexyl)phthalate	ND	mg/Kg	2.5	1.7	10/03/96	SMSSVOA122
Di-n-octyl phthalate	ND	mg/Kg	0.50	1.7	10/03/96	SMSSVOA122
Benzo(b)+(k)fluoranthene	ND	mg/Kg	0.50	1.7	10/03/96	SMSSVOA122
1-Methylnaphthalene	3.2	mg/Kg	1.0	1.7	10/03/96	SMSSVOA122
Benzo(a)pyrene	ND	mg/Kg	0.50	1.7	10/03/96	SMSSVOA122
Indeno(1,2,3-cd)pyrene	ND	mg/Kg	1.0	1.7	10/03/96	SMSSVOA122
Benzo(g,h,i)perylene	ND	mg/Kg	1.0	1.7	10/03/96	SMSSVOA122
2,3,4,6-Tetrachlorophenol	ND	mg/Kg	2.5	1.7	10/03/96	SMSSVOA122
Azobenzene	ND	mg/Kg	1.0	1.7	10/03/96	SMSSVOA122
Dibenz(a,h)anthracene	ND	mg/Kg	1.0	1.7	10/03/96	SMSSVOA122

Lab ID: 9609071-01D **Collected:** 09/06/96 12:10:00
Sample ID: CA70/7-96-0906-1210 **Matrix:** SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
% SOLIDS(TCLP XT)EPA 160.3	100.00	% (Percent)				
CVAA Hg XT/SW846 7471	09/25/96	N/A				
Metal(ICP) DIG /SW846 3050	09/16/96	N/A				
METALS-ICP/SW846 6010						
Silver, Ag	ND	mg/Kg	1.0	1.0	09/18/96	SIF28,SCV119
luminum, Al	NT	mg/Kg	25			SIF28,SCV119
·nic, As	ND	mg/Kg	3.0	1.0	09/18/96	SIF28,SCV119
.um, Ba	140	mg/Kg	0.50	1.0	09/18/96	SIF28,SCV119
Beryllium, Be	NT	mg/Kg	0.50			SIF28,SCV119
Calcium, Ca	NT	mg/Kg	15			SIF28,SCV119

L ID: 9609071-01D
Sample ID: CA70/7-96-0906-1210

Collected: 09/06/96 12:10:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
METALS-ICP/SW846 6010						
Cadmium, Cd	ND	mg/Kg	0.20	1.0	09/18/96	SIF28,SCV119
Cobalt, Co	NT	mg/Kg	0.50			SIF28,SCV119
Chromium, Cr	7.6	mg/Kg	1.0	1.0	09/18/96	SIF28,SCV119
Copper, Cu	NT	mg/Kg	0.50			SIF28,SCV119
Iron, Fe	NT	mg/Kg	15			SIF28,SCV119
Potassium, K	NT	mg/Kg	10			SIF28,SCV119
Magnesium, Mg	NT	mg/Kg	10			SIF28,SCV119
Manganese, Mn	NT	mg/Kg	0.25			SIF28,SCV119
Sodium, Na	NT	mg/Kg	15			SIF28,SCV119
Nickel, Ni	5.6	mg/Kg	2.0	1.0	09/18/96	SIF28,SCV119
Lead, Pb	19.6	mg/Kg	2.0	1.0	09/18/96	SIF28,SCV119
Antimony, Sb	NT	mg/Kg	1.5			SIF28,SCV119
Selenium, Se	ND	mg/Kg	2.5	1.0	09/18/96	SIF28,SCV119
Vanadium, V	NT	mg/Kg	0.15			SIF28,SCV119
Zinc, Zn	NT	mg/Kg	5.0			SIF28,SCV119
TCLP (ICP) DIG/1311/3005	09/13/96	N/A				
TCLP EXTRACTION/TCLP 1311	09/12/96	N/A				
TCLP METALS/1311/SW8466010						
Arsenic, As	ND	mg/L	0.40	1.0	09/16/96	TIF16,TWCV33
Barium, Ba	2.1	mg/L	0.50	1.0	09/16/96	TIF16,TWCV33
Cadmium, Cd	ND	mg/L	0.0050	1.0	09/16/96	TIF16,TWCV33
Chromium, Cr	ND	mg/L	0.020	1.0	09/16/96	TIF16,TWCV33
Lead, Pb	ND	mg/L	0.050	1.0	09/16/96	TIF16,TWCV33
Mercury, Hg	ND	mg/L	0.0020	1.0	09/18/96	TIF16,TWCV33
Selenium, Se	ND	mg/L	0.050	1.0	09/16/96	TIF16,TWCV33
r, Ag	ND	mg/L	0.040	1.0	09/16/96	TIF16,TWCV33
T. .(CVAA)Hg XT/SW846 7471	09/18/96	N/A				

Lab ID: 9609071-02A
Sample ID: CA70/3-96-0906-1200

Collected: 09/06/96 12:00:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
BTEX/SW846 8020A						
Benzene	ND	mg/Kg	0.0010	50	09/20/96	SMSVOA394
Toluene	0.097	mg/Kg	0.0010	50	09/20/96	SMSVOA394
Ethylbenzene	ND	mg/Kg	0.0010	50	09/20/96	SMSVOA394
P-&m-Xylene	0.20	mg/Kg	0.0010	50	09/20/96	SMSVOA394
O-Xylene	0.054	mg/Kg	0.0010	50	09/20/96	SMSVOA394
Diesel Range OG Soil/M8015						
Diesel Range OG in Soil	870	mg/Kg	50	5.0	09/23/96	SDRO001
HCs DSL XT/CAL DHS 8015M	09/19/96	N/A				

Fred L. Shore, Ph.D.
VP of Laboratory Operations

WORKORDER COMMENTS

DATE : 10/04/96
WORKORDER:

DEFINITIONS/DATA QUALIFIERS

The following are definitions, abbreviations, and data qualifiers which may have been utilized in your report:

ND = Analyte "not detected" in analysis at the sample specific detection limit.
D_F = Sample "dilution factor"
NT = Analyte "not tested" per client request.
B = Analyte was also detected in laboratory method QC blank.
E = Analyte concentration (result) is an estimated value or exceeds analysis calibration range.
LIMIT = The minimum amount of the analyte that AAL can detect utilizing the specified analysis.

Please Note: Multiply the "Limit" value (AAL's Detection Limit) by Dilution Factor (D_F) to obtain the sample specific Detection Limit.

*** Analytical results reported pertain only to the samples provided ***
*** for analysis and may not represent actual field conditions. ***
*** ***
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REPORT COMMENTS

ASSAIGAI ANALYTICAL LABORATORIES

Chain of Custody Record

Lab job no.: 9071 Date 9/9/96

Page 1 of 1

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ALBUQUERQUE, NEW MEXICO 87109
(505) 345-8964

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EL PASO, TEXAS 79925
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1910 N. BIG SPRING
MIDLAND, TEXAS 79705
(915) 570-1116

MELQUIADES ALANIS
6411 LOCAL UNO
CIUDAD JUAREZ, CHIHUAHUA MEXICO 32320

Client: Cheyenne / LCT-2

Project Manager / Contact: Mike Landgraf

Address: 1712 S Prince St

Telephone No.: (505) 763-1410

City / State / Zip: CLOVIS NM 88101

Fax No.: (505) 769-0780

Project Name / Number: OWS Removal

Samplers: (Signature) [signature]

Contract / Purchase Order / Quote: DHC497-95-D-0035

AAL Fraction Number	Field Sample Number / Location	Date	Time	Sample Type	Type / Size of Container	Preservation Temp.	Preservation Chemical	No. of Containers		TPH 8015	VOC's 8260	SVOC's 8270	TAL RCRA Metals 6010	BTEX 8020				Remarks
1A-D	CA70/7-96-0906-1210	9/6/96	1210	soil	3:8oz, 1 4oz		ICE	4		X	X	X	X					
2AU	CA70/3-96-0906-1200	9/6/96	1200	soil	1, 4oz		ICE	1		X				X				

Relinquished by:	Date / Time	Received by:	Relinquished by:	Date / Time	Received by:
Signature: [signature]	9/7/96	Signature: [signature]	Signature:	9/8/96	Signature: [signature]
Printed: Troy Moreloz	9:05AM	Printed: Sal Garza Jr	Printed: Greyhound	8:00	Printed: [illegible]
Company: Chey		Company: TNTTC	Company:		Company: TAL
Reason: shipment		Reason: Shipment	Reason:		Reason:

Method of Shipment: Bus

Shipment No.:

Special Instructions:

Comments: Rcvd @ 19°C

After analysis, samples are to be:

- ☐ Disposed of (additional fee)
- ☐ Stored (30 days max)
- ☐ Stored over 30 days (additional fee)
- ☐ Returned to customer

COI

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LABORATORIES, INC.
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3332 Wedgewood, E-5 • El Paso, Texas 79925 • (915) 593-6000 • FAX (915) 593-7820

Report Generated:
November 15, 1996 16:42

CERTIFICATE OF ANALYSIS
RESULTS BY SAMPLE

SENT TO: CHEYENNE BUILDING CONTRACTORS
P.O. BOX 418
CLOVIS, NM 88101

ATTN: MIKE LANDGRAF

WORKORDER # : 9610219
WORK ID : DACA47-95-D-0035
CLIENT CODE : CHE10
DATE RECEIVED : 10/25/96

Lab ID: 9610219-01A
Sample ID: CA33/7-96-1025-1406
Collected: 10/25/96 14:06:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
Diesel Range OG Soil/M8015						
Diesel Range OG in Soil	ND	mg/Kg	50	1.0	11/06/96	SDRO004

Lab ID: 9610219-01B
Sample ID: CA33/7-96-1025-1406
Collected: 10/25/96 14:06:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
VOLATILES/SW846 8260						
Dichlorodifluoromethane	ND	mg/Kg	0.010	5.0	11/01/96	SMSVOA400
Chloromethane	ND	mg/Kg	0.0050	5.0	11/01/96	SMSVOA400
Iodomethane	ND	mg/Kg	0.0050	5.0	11/01/96	SMSVOA400
Acetone	ND	mg/Kg	0.0050	5.0	11/01/96	SMSVOA400
Bromomethane	ND	mg/Kg	0.0050	5.0	11/01/96	SMSVOA400
Vinyl Chloride	ND	mg/Kg	0.0050	5.0	11/01/96	SMSVOA400
Chloroethane	ND	mg/Kg	0.0050	5.0	11/01/96	SMSVOA400
Trichlorofluoromethane	ND	mg/Kg	0.0050	5.0	11/01/96	SMSVOA400
Freon 113	ND	mg/Kg	0.0050	5.0	11/01/96	SMSVOA400
Carbon Disulfide	ND	mg/Kg	0.0050	5.0	11/01/96	SMSVOA400
Acrolein	ND	mg/Kg	0.020	5.0	11/01/96	SMSVOA400
Methylene Chloride	ND	mg/Kg	0.010	5.0	11/01/96	SMSVOA400
1,1-Dichloroethene	ND	mg/Kg	0.0010	5.0	11/01/96	SMSVOA400
1,1-Dichloroethane	ND	mg/Kg	0.0010	5.0	11/01/96	SMSVOA400
Acrylonitrile	ND	mg/Kg	0.020	5.0	11/01/96	SMSVOA400
trans-1,2-Dichloroethene	ND	mg/Kg	0.0010	5.0	11/01/96	SMSVOA400
Chloroform	ND	mg/Kg	0.0010	5.0	11/01/96	SMSVOA400
1,2-Dichloroethane	ND	mg/Kg	0.0010	5.0	11/01/96	SMSVOA400
Vinyl Acetate	ND	mg/Kg	0.0050	5.0	11/01/96	SMSVOA400
cis-1,2-Dichloroethene	ND	mg/Kg	0.0010	5.0	11/01/96	SMSVOA400
2-Butanone (MEK)	ND	mg/Kg	0.0050	5.0	11/01/96	SMSVOA400
1,1,1-Trichloroethane	ND	mg/Kg	0.0010	5.0	11/01/96	SMSVOA400
Carbon Tetrachloride	ND	mg/Kg	0.0010	5.0	11/01/96	SMSVOA400
Bromodichloromethane	ND	mg/Kg	0.0010	5.0	11/01/96	SMSVOA400
1,2-Dichloropropane	ND	mg/Kg	0.0010	5.0	11/01/96	SMSVOA400
Dibromomethane	ND	mg/Kg	0.0010	5.0	11/01/96	SMSVOA400
ns-1,3-Dichloropropene	ND	mg/Kg	0.0010	5.0	11/01/96	SMSVOA400
hloroethene	ND	mg/Kg	0.0010	5.0	11/01/96	SMSVOA400
rodibromomethane	ND	mg/Kg	0.0010	5.0	11/01/96	SMSVOA400
Ethyl Methacrylate	ND	mg/Kg	0.0050	5.0	11/01/96	SMSVOA400
2-Chloroethylvinyl Ether	ND	mg/Kg	0.0050	5.0	11/01/96	SMSVOA400

Member: American Council of Independent Laboratories, Inc.

REPRODUCTION OF THIS REPORT IN LESS THAN FULL REQUIRES THE WRITTEN CONSENT OF AAL
THIS REPORT MAY NOT BE USED IN ANY MANNER BY THE CLIENT OR ANY OTHER THIRD PARTY TO CLAIM
PRODUCT ENDORSEMENT BY THE NATIONAL VOLUNTARY LABORATORY ACCREDITATION PROGRAM.

ID: 9610219-01B
Sample ID: CA33/7-96-1025-1406

Collected: 10/25/96 14:06:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
VOLATILES/SW846 8260						
1,1,2-Trichloroethane	ND	mg/Kg	0.0010	5.0	11/01/96	SMSVOA400
Benzene	ND	mg/Kg	0.0010	5.0	11/01/96	SMSVOA400
cis-1,3-Dichloropropene	ND	mg/Kg	0.0010	5.0	11/01/96	SMSVOA400
Bromoform	ND	mg/Kg	0.0010	5.0	11/01/96	SMSVOA400
4-Methyl-2-Pentanone (MIBK)	ND	mg/Kg	0.0050	5.0	11/01/96	SMSVOA400
Tetrachloroethene	ND	mg/Kg	0.0010	5.0	11/01/96	SMSVOA400
1,1,2,2-Tetrachloroethane	ND	mg/Kg	0.0010	5.0	11/01/96	SMSVOA400
1,2-Dibromoethane	ND	mg/Kg	0.0010	5.0	11/01/96	SMSVOA400
2-Hexanone (MBK)	ND	mg/Kg	0.0050	5.0	11/01/96	SMSVOA400
1,1,1,2-Tetrachloroethane	ND	mg/Kg	0.0010	5.0	11/01/96	SMSVOA400
Toluene	ND	mg/Kg	0.0010	5.0	11/01/96	SMSVOA400
Chlorobenzene	ND	mg/Kg	0.0010	5.0	11/01/96	SMSVOA400
Ethylbenzene	ND	mg/Kg	0.0010	5.0	11/01/96	SMSVOA400
1,4-Dichloro-2-Butene	ND	mg/Kg	0.010	5.0	11/01/96	SMSVOA400
Styrene	ND	mg/Kg	0.0010	5.0	11/01/96	SMSVOA400
P/M Xylene	ND	mg/Kg	0.0020	5.0	11/01/96	SMSVOA400
O-Xylene	ND	mg/Kg	0.0010	5.0	11/01/96	SMSVOA400
1,2,3-Trichloropropane	ND	mg/Kg	0.0010	5.0	11/01/96	SMSVOA400
Methyl-tert Butyl Ether	ND	mg/Kg	0.010	5.0	11/01/96	SMSVOA400
1,2-Dichlorobenzene	ND	mg/Kg	0.0010	5.0	11/01/96	SMSVOA400
1,3-Dichlorobenzene	ND	mg/Kg	0.0010	5.0	11/01/96	SMSVOA400
1,4-Dichlorobenzene	ND	mg/Kg	0.0010	5.0	11/01/96	SMSVOA400

ID: 9610219-01C
Sample ID: CA33/7-96-1025-1406

Collected: 10/25/96 14:06:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
SVOA(SOX) Soil/SW846 8270B	11/05/96	N/A				
n-Nitrosodimethylamine	ND	mg/Kg	1.0	1.8	11/12/96	SMSSVOA128
Pyridine	ND	mg/Kg	10	1.8	11/12/96	SMSSVOA128
Aniline	ND	mg/Kg	10	1.8	11/12/96	SMSSVOA128
bis(2-Chloroethyl) Ether	ND	mg/Kg	0.50	1.8	11/12/96	SMSSVOA128
2-Chlorophenol	ND	mg/Kg	0.50	1.8	11/12/96	SMSSVOA128
1,3-Dichlorobenzene	ND	mg/Kg	0.50	1.8	11/12/96	SMSSVOA128
1,4-Dichlorobenzene	ND	mg/Kg	0.50	1.8	11/12/96	SMSSVOA128
Phenol	ND	mg/Kg	0.50	1.8	11/12/96	SMSSVOA128
1,2-Dichlorobenzene	ND	mg/Kg	0.50	1.8	11/12/96	SMSSVOA128
Benzyl Alcohol	ND	mg/Kg	10	1.8	11/12/96	SMSSVOA128
bis(2-Chloroisopropyl) Ether	ND	mg/Kg	1.0	1.8	11/12/96	SMSSVOA128
2-Methylphenol / O-Cresol	ND	mg/Kg	0.50	1.8	11/12/96	SMSSVOA128
Hexachloroethane	ND	mg/Kg	0.50	1.8	11/12/96	SMSSVOA128
n-Nitroso-di-n-propylamine	ND	mg/Kg	0.50	1.8	11/12/96	SMSSVOA128
Nitrobenzene	ND	mg/Kg	0.50	1.8	11/12/96	SMSSVOA128
3/4 Methylphenol / M/P-Cresol	ND	mg/Kg	0.50	1.8	11/12/96	SMSSVOA128
Isophorone	ND	mg/Kg	0.50	1.8	11/12/96	SMSSVOA128
2-Nitrophenol	ND	mg/Kg	1.0	1.8	11/12/96	SMSSVOA128
bis(2-Chloroethoxy) Methane	ND	mg/Kg	0.50	1.8	11/12/96	SMSSVOA128
2,4-Dimethylphenol	ND	mg/Kg	1.0	1.8	11/12/96	SMSSVOA128
1,2,4-Trichlorobenzene	ND	mg/Kg	0.50	1.8	11/12/96	SMSSVOA128
Naphthalene	ND	mg/Kg	0.50	1.8	11/12/96	SMSSVOA128
Benzoic Acid	ND	mg/Kg	10	1.8	11/12/96	SMSSVOA128
2,4-Dichlorophenol	ND	mg/Kg	1.0	1.8	11/12/96	SMSSVOA128
'-Chloroaniline	ND	mg/Kg	10	1.8	11/12/96	SMSSVOA128
achlorobutadiene	ND	mg/Kg	0.50	1.8	11/12/96	SMSSVOA128
ethylnaphthalene	ND	mg/Kg	0.50	1.8	11/12/96	SMSSVOA128
4-Chloro-3-methylphenol	ND	mg/Kg	0.50	1.8	11/12/96	SMSSVOA128
Hexachlorocyclopentadiene	ND	mg/Kg	10	1.8	11/12/96	SMSSVOA128

Lab ID: 9610219-01C
Sample ID: CA33/7-96-1025-1406

Collected: 10/25/96 14:06:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
SVOA(SOX) Soil/SW846 8270B						
2,4,6-Trichlorophenol	ND	mg/Kg	1.0	1.8	11/12/96	SMSSVOA128
2,4,5-Trichlorophenol	ND	mg/Kg	1.0	1.8	11/12/96	SMSSVOA128
2-Chloronaphthalene	ND	mg/Kg	0.50	1.8	11/12/96	SMSSVOA128
2-Nitroaniline	ND	mg/Kg	1.0	1.8	11/12/96	SMSSVOA128
Acenaphthylene	ND	mg/Kg	0.50	1.8	11/12/96	SMSSVOA128
Dimethylphthalate	ND	mg/Kg	0.50	1.8	11/12/96	SMSSVOA128
2,6-Dinitrotoluene	ND	mg/Kg	1.0	1.8	11/12/96	SMSSVOA128
Acenaphthene	ND	mg/Kg	0.50	1.8	11/12/96	SMSSVOA128
3-Nitroaniline	ND	mg/Kg	10	1.8	11/12/96	SMSSVOA128
Dibenzofuran	ND	mg/Kg	0.50	1.8	11/12/96	SMSSVOA128
2,4-Dinitrotoluene	ND	mg/Kg	2.5	1.8	11/12/96	SMSSVOA128
Fluorene	ND	mg/Kg	0.50	1.8	11/12/96	SMSSVOA128
4-Chlorophenyl-phenylether	ND	mg/Kg	0.50	1.8	11/12/96	SMSSVOA128
Diethylphthalate	ND	mg/Kg	0.50	1.8	11/12/96	SMSSVOA128
4-Nitrophenol	ND	mg/Kg	10	1.8	11/12/96	SMSSVOA128
4,6-Dinitro-2-methylphenol	ND	mg/Kg	10	1.8	11/12/96	SMSSVOA128
n-Nitrosodiphenylamine	ND	mg/Kg	0.50	1.8	11/12/96	SMSSVOA128
4-Nitroaniline	ND	mg/Kg	10	1.8	11/12/96	SMSSVOA128
4-Bromophenyl-phenylether	ND	mg/Kg	0.50	1.8	11/12/96	SMSSVOA128
Hexachlorobenzene	ND	mg/Kg	0.50	1.8	11/12/96	SMSSVOA128
Pentachlorophenol	ND	mg/Kg	10	1.8	11/12/96	SMSSVOA128
2,4-Dinitrophenol	ND	mg/Kg	10	1.8	11/12/96	SMSSVOA128
Phenanthrene	ND	mg/Kg	0.50	1.8	11/12/96	SMSSVOA128
nthracene	ND	mg/Kg	0.50	1.8	11/12/96	SMSSVOA128
i-n-butylphthalate	ND	mg/Kg	5.0	1.8	11/12/96	SMSSVOA128
anthene	ND	mg/Kg	0.50	1.8	11/12/96	SMSSVOA128
ne	ND	mg/Kg	0.50	1.8	11/12/96	SMSSVOA128
Butylbenzylphthalate	ND	mg/Kg	0.50	1.8	11/12/96	SMSSVOA128
Benzo(a)anthracene	ND	mg/Kg	0.50	1.8	11/12/96	SMSSVOA128
Chrysene	ND	mg/Kg	0.50	1.8	11/12/96	SMSSVOA128
3,3'-Dichlorobenzidine	ND	mg/Kg	10	1.8	11/12/96	SMSSVOA128
bis(2-Ethylhexyl)phthalate	ND	mg/Kg	2.5	1.8	11/12/96	SMSSVOA128
Di-n-octyl phthalate	ND	mg/Kg	0.50	1.8	11/12/96	SMSSVOA128
Benzo(b)+(k)fluoranthene	ND	mg/Kg	0.50	1.8	11/12/96	SMSSVOA128
1-Methylnaphthalene	ND	mg/Kg	1.0	1.8	11/12/96	SMSSVOA128
Benzo(a)pyrene	ND	mg/Kg	0.50	1.8	11/12/96	SMSSVOA128
Indeno(1,2,3-cd)pyrene	ND	mg/Kg	1.0	1.8	11/12/96	SMSSVOA128
Benzo(g,h,i)perylene	ND	mg/Kg	1.0	1.8	11/12/96	SMSSVOA128
2,3,4,6-Tetrachlorophenol	ND	mg/Kg	2.5	1.8	11/12/96	SMSSVOA128
Azobenzene	ND	mg/Kg	1.0	1.8	11/12/96	SMSSVOA128
Dibenz(a,h)anthracene	ND	mg/Kg	1.0	1.8	11/12/96	SMSSVOA128

Lab ID: 9610219-01D
Sample ID: CA33/7-96-1025-1406

Collected: 10/25/96 14:06:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
% SOLIDS(TCLP XT)EPA 160.3	100.00	% (Percent)				
CVAA Hg XT/SW846 7471	10/30/96	N/A				
MERCURY (CVAA)/SW846 7471						
Mercury	ND	mg/Kg	0.15	1.0	10/31/96	M9688
Metal(ICP) DIG /SW846 3050	11/01/96	N/A				
METALS-ICP/SW846 6010						
lver, Ag	ND	mg/Kg	1.0	1.0	11/04/96	M9693
ninum, Al	NT	mg/Kg	25			M9693
nic, As	ND	mg/Kg	3.0	1.0	11/04/96	M9693
Barium, Ba	125	mg/Kg	0.50	1.0	11/04/96	M9693
Beryllium, Be	NT	mg/Kg	0.50			M9693

Lab ID: 9610219-01D
Sample ID: CA33/7-96-1025-1406

Collected: 10/25/96 14:06:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
METALS-ICP/SW846 6010						
Calcium, Ca	NT	mg/Kg	15			M9693
Cadmium, Cd	0.22	mg/Kg	0.20	1.0	11/04/96	M9693
Cobalt, Co	NT	mg/Kg	0.50			M9693
Chromium, Cr	6.1	mg/Kg	1.0	1.0	11/04/96	M9693
Copper, Cu	NT	mg/Kg	0.50			M9693
Iron, Fe	NT	mg/Kg	15			M9693
Potassium, K	NT	mg/Kg	10			M9693
Magnesium, Mg	NT	mg/Kg	10			M9693
Manganese, Mn	NT	mg/Kg	0.25			M9693
Sodium, Na	NT	mg/Kg	15			M9693
Nickel, Ni	5.8	mg/Kg	2.0	1.0	11/04/96	M9693
Lead, Pb	4.6	mg/Kg	2.0	1.0	11/04/96	M9693
Antimony, Sb	NT	mg/Kg	1.5			M9693
Selenium, Se	ND	mg/Kg	2.5	1.0	11/04/96	M9693
Vanadium, V	NT	mg/Kg	0.15			M9693
Zinc, Zn	NT	mg/Kg	5.0			M9693
TCLP (ICP) DIG/1311/3005	10/31/96	N/A				
TCLP EXTRACTION/TCLP 1311	10/30/96	N/A				
TCLP METALS/1311/SW8466010						
Arsenic, As	ND	mg/L	0.40	1.0	11/06/96	M9692,M9699
Barium, Ba	1.1	mg/L	0.50	1.0	11/06/96	M9692,M9699
Cadmium, Cd	ND	mg/L	0.0050	1.0	11/06/96	M9692,M9699
Chromium, Cr	ND	mg/L	0.020	1.0	11/06/96	M9692,M9699
ead, Pb	ND	mg/L	0.050	1.0	11/06/96	M9692,M9699
ercury, Hg	ND	mg/L	0.0020	1.0	11/06/96	M9692,M9699
ium, Se	ND	mg/L	0.050	1.0	11/06/96	M9692,M9699
er, Ag	ND	mg/L	0.040	1.0	11/06/96	M9692,M9699
TCLP(CVAA)Hg XT/SW846 7471	11/05/96	N/A				

Lab ID: 9610219-02A
Sample ID: CA33/8-96-1025-1407

Collected: 10/25/96 14:07:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
% SOLIDS(TCLP XT)EPA 160.3	100.00	% (Percent)				
TCLP (ICP) DIG/1311/3005	10/31/96	N/A				
TCLP EXTRACTION/TCLP 1311	10/30/96	N/A				
TCLP METALS/1311/SW8466010						
Arsenic, As	ND	mg/L	0.40	1.0	11/06/96	M9692,M9699
Barium, Ba	1.3	mg/L	0.50	1.0	11/06/96	M9692,M9699
Cadmium, Cd	ND	mg/L	0.0050	1.0	11/06/96	M9692,M9699
Chromium, Cr	ND	mg/L	0.020	1.0	11/06/96	M9692,M9699
Lead, Pb	ND	mg/L	0.050	1.0	11/06/96	M9692,M9699
Mercury, Hg	ND	mg/L	0.0020	1.0	11/06/96	M9692,M9699
Selenium, Se	ND	mg/L	0.050	1.0	11/06/96	M9692,M9699
Silver, Ag	ND	mg/L	0.040	1.0	11/06/96	M9692,M9699
TCLP(CVAA)Hg XT/SW846 7471	11/05/96	N/A				

Fred L. Shore, Ph.D.
VP of Laboratory Operations

WORKORDER COMMENTS

DATE : 11/15/96
WORKORDER:

DEFINITIONS/DATA QUALIFIERS

The following are definitions, abbreviations, and data qualifiers which may have been utilized in your report:

ND = Analyte "not detected" in analysis at the sample specific detection limit.
D_F = Sample "dilution factor"
NT = Analyte "not tested" per client request.
B = Analyte was also detected in laboratory method QC blank.
E = Analyte concentration (result) is an estimated value or exceeds analysis calibration range.
LIMIT = The minimum amount of the analyte that AAL can detect utilizing the specified analysis.

Please Note: Multiply the "Limit" value (AAL's Detection Limit) by Dilution Factor (D_F) to obtain the sample specific Detection Limit.

*** Analytical results reported pertain only to the samples provided ***
*** for analysis and may not represent actual field conditions. ***
*** ***
*** This report is not to be reproduced except in full, without the ***
*** written approval of Assaigai Analytical Inc. ***

REPORT COMMENTS

SAIGAI ANALYTICAL LABORATORIES

Chain of Custody Record

Lab job no.: 10219 Date 10/25/96

Page 1 of 1

7300 JEFFERSON, N.E.
ALBUQUERQUE, NEW MEXICO
(505) 345-8964

3332 WEDGEWOOD
EL PASO, TEXAS 79925
(915) 593-6000

1910 N. BIG SPRING
MIDLAND, TEXAS 79705
(915) 570-1116

MELQUIADES ALANIS
6411 LOCAL UNO
CIUDAD JUAREZ, CHIHUAHUA MEXICO 32320

Client: Chevron / LCI-2

Address: 1712 S Prince St

City / State / Zip: CLOVIS NM 88101

Project Name / Number: DACW47-95-D-0035

Contract / Purchase Order / Quote: Don Moore

Project Manager / Contact: Mike Landgraf

Telephone No.: 505-763-1410

Fax No.: 505-769-0780

Samplers: (Signature)

Analysis Required

AAL Fraction Number	Field Sample Number / Location	Date	Time	Sample Type	Type / Size of Container	Preservation Temp.	Preservation Chemical	No. of Containers	TPH 8015 Mod Diesel Range	8260	8270	8010+8240	Semi. Volatiles	TCLP 1311					Remarks
1A-D	CA33/7-96-1025-1406	10/25	2:06	soil	1,4oz + 3,8oz glass		ICE	4	X	X	X	X							Confirmatory site
2A	CA33/8-96-1025-1407	10/25	2:07	soil	1: 8oz glass		ICE	1					X						" Excavated material

10/25/96

Relinquished by:	Date	Received by:	Relinquished by:	Date	Received by:
Signature: Troy Moore	10/25/96	Signature: Elvin J. Chavez	Signature: Elvin J. Chavez	10/25/96	Signature: Arthur M. Dahl
Printed: Troy Moore	Time: 2:30 PM	Printed: Elvin J. Chavez	Printed: Elvin J. Chavez	Time: 7:30 PM	Printed:
Company: Chevron		Company: AAL	Company: AAL		Company: AAL
Reason: Shipment		Reason:	Reason:		Reason:

Method of Shipment:

Shipment No.:

Special Instructions:

Comments:

After analysis, samples are to be:

- ☐ Disposed of (additional fee)
- ☐ Stored (30 days max)
- ☐ Stored over 30 days (additional fee)
- ☐ Returned to customer

COURIER

APPENDIX II

Waste Transportation/Disposal Documents

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. N M 7 5 7 2 1 2 4 4 5 4
Manifest Document No. 9 W C 6 2
2. Page 1 of 1

3. Generator's Name and Mailing Address
27 CE/CEVP (Attn: Vera Wood) 111 Engineers Way
Cannon AFB NM 88103-5136
4. Generator's Phone (505) 784-6022 or X4920

5. Transporter 1 Company Name
ENVIROSOLVE Southwest, Inc
6. US EPA ID Number NM0000.580240

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

9. Designated Facility Name and Site Address
ENVIROSOLVE Southwest, Inc.
5339 Williams SE
Albuquerque NM 87105
10. US EPA ID Number NM0000590240

A. Transporter's Phone
B. Transporter's Phone
C. Facility's Phone 505-877-0964

11. Waste Shipping Name and Description

	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
a. NON RCRA - NON DOT WASTE LIQUIDS (WASTE WATER)	009	DM	03825	P
b. NON-RCRA NON-DOT WASTE SOLIDS (NON HAZ Solids)	002	DM	0200	P
c.				
d.				

D. Additional Descriptions for Materials Listed Above
11.A) 9155
11.B) 2155

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information
11a oil water Separator #63
11b, oil water Separator ~~#62 (Sludge)~~ UAW #61

16. GENERATOR'S CERTIFICATION: I hereby the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.
Printed/Typed Name ~~Vera L. Wood, CS-11~~ Signature Vera L. Wood Month 09 Day 20 Year 96

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name Tom Myers Signature
Month 09 Day 20 Year 96

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

19. Discrepancy Indication Space

20. Facility Owner or Operator Certification of receipt of waste materials covered by this manifest except as noted in Item 19.
Printed/Typed Name Bill Dunlap Signature Month 09 Day 20 Year 1996

GENERATOR
TRANSPORTER
FACILITY

ORIGINAL – RETURN TO GENERATOR

ENVIROSOLVE
S[illegible] VEST, INC.

[illegible] e Office/TSD
2131 S. Rosedale Ave.
Tulsa, OK 74107
918-587-9664: Office
918-587-5817: Fax
info@enviro-solve.com

Sales/Field Office
15975 W. Waterloo
Edmond, OK 73003
405-348-5690: Office
405-348-5692: Fax

New Mexico TSD
5338 Williams St. S.E.
Albuquerque, NM 87105
505-873-0964: Office
505-873-0965: Fax
envirosw@RT66.com

ENVIROSOLVE
WASTE SERVICES, INC.

Corporate Office/TSD
2131 S. Rosedale Ave.
Tulsa, OK 74107
918-587-9664: Office
918-587-5817: Fax
in[illegible] ro-solve.com

HTTP://
WWW.ENVIRO-SOLVE.COM

CERTIFICATE OF TREATMENT/RECYCLING

This is to certify that the waste material manifested to Envirosolve Southwest, Inc. on Document No. SW062 was treated or recycled through application of one of the following processes:

_____ The subject material was blended into a fuel, then burned for energy recovery in an off-site industrial furnace in accordance with the provisions of 40 CFR 261.6(a)(2)(ii) and 40 CFR 266 Subpart H.

11a,b The subject material underwent physical and chemical treatment with the treated effluent discharged to a POTW in accordance with industrial wastewater discharge permit 2579 and the provisions of 40 CFR 403.

_____ The subject material was recycled pursuant to the management standards for used oil in accordance with 40 CFR 279.

_____ The subject material was processed as a recyclable material pursuant to:

_____ 40 CFR 261.6(a)(3)(ii) used battery
_____ 40 CFR 261.6(a)(3)(iii) scrap metal

_____ The subject material was reclaimed as a used chlorofluorocarbon refrigerant pursuant to 40 CFR 261.4(b)(12).

_____ The subject material was shipped to a commercial hazardous waste treatment, storage, or disposal facility regulated pursuant to 40 CFR 261 - 265.

_____ The subject material was recycled in accordance with the applicable provisions of 40 CFR 261.

GENERATOR CANNON AIR FORCE BASE

EPA ID. NO NM7572124454

ADDRESS 27 CE/CEVP 111 ENGINEERS WAY, Cannon AFB, New Mexico

ENVIROSOLVE SOUTHWEST, INC.

BY J. Scott Logan

TITLE President

SIGNATURE

DATE October 29, 1996

Corporate Seal

ENVIROSOLVE
Providing Waste Management Solutions

EMERGENCY CONTACT
TOM MORRIS (505) 2[illegible]-[illegible]

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. NMT572124543 Manifest Document No. W038 2. Page 1 of 1

3. Generator's Name and Mailing Address
ATTN: Vera Wood 27CE/CEVP - 111 Engineers Way
Cannon AFB, NM 88103-5136

4. Generator's Phone (505) 784-6022

5. Transporter 1 Company Name: Envirosolve Southwest
6. US EPA ID Number: NMP000025040

7. Transporter 2 Company Name: Envirosolve Waste Services Inc.
8. US EPA ID Number: OKD987084068

9. Designated Facility Name and Site Address
Envirosolve Waste Svcs, Inc.
2134 S. Rosedale Ave
Tulsa, OK 74107 OKD987084068

10. US EPA ID Number

A. Transporter's Phone (505) 873-0[illegible]
B. Transporter's Phone
C. Facility's Phone (918) 587-9664

11. Waste Shipping Name and Description	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
a. Non-RCRA/Non-D.O.T. Regulated Waste ~~(Oily Water)~~ S.D.	011	DM	05500	P
b.				
c.				
d.				

GENERATOR

D. Additional Descriptions for Materials Listed Above
(a.) oil/water Separator Sludge from #38, 39, & 46, Approval #96-1009

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information
(a.) Treat Water FSVBS oil/sludge

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: VERA A. Wood, GS-11 Signature: Vera A. Wood Month Day Year 10 10 96

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Bill Dunlap Signature: [illegible] Month Day Year 10 07 96

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name: Todd Wilson Signature: [illegible] Month Day Year 10 07 96

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.
Printed/Typed Name: Todd Wilson Signature: [illegible] Month Day Year 10 07 96

ORIGINAL – RETURN TO GENERATOR

'VIROSOLVE
JTHWEST, INC.

Corporate Office/TSD
2131 S. Rosedale Ave.
Tulsa, OK 74107
918-587-9664: Office
918-587-5817: Fax
info@enviro-solve.com

Sales/Field Office
15975 W. Waterloo
Edmond, OK 73003
405-348-5690: Office
405-348-5692: Fax

New Mexico TSD
5338 Williams St. S.E.
Albuquerque, NM 87105
505-873-0964: Office
505-873-0965: Fax
envirosw@RT66.com

ENVIROSOLVE
WASTE SERVICES, INC

Corporate Office/TSD
2131 S. Rosedale Ave.
Tulsa, OK 74107
918-587-9664 Office
918-587-5817: Fax
info@enviro-solve.com

TTP://
WWW.ENVIRO-SOLVE.COM

CERTIFICATE OF TREATMENT/RECYCLING

This is to certify that the waste material manifested to Envirosolve Southwest, Inc. on Document No. SW038 was treated or recycled through application of one of the following processes:

_____ The subject material was blended into a fuel, then burned for energy recovery in an off-site industrial furnace in accordance with the provisions of 40 CFR 261.6(a)(2)(ii) and 40 CFR 266 Subpart H

__11a__ The subject material underwent physical and chemical treatment with the treated effluent discharged to a POTW in accordance with industrial wastewater discharge permit 2579 and the provisions of 40 CFR 403

_____ The subject material was recycled pursuant to the management standards for used oil in accordance with 40 CFR 279

_____ The subject material was processed as a recyclable material pursuant to:

_____ 40 CFR 261.6(a)(3)(ii) used battery
_____ 40 CFR 261.6(a)(3)(iii) scrap metal

_____ The subject material was reclaimed as a used chlorofluorocarbon refrigerant pursuant to 40 CFR 261.4(b)(12).

_____ The subject material was shipped to a commercial hazardous waste treatment, storage, or disposal facility regulated pursuant to 40 CFR 261 - 265.

_____ The subject material was recycled in accordance with the applicable provisions of 40 CFR 261

GENERATOR CANNON AIR FORCE BASE

EPA ID. NO NM7572124454

ADDRESS 27CE/CEVP-111 ENGINEERS WAY, Cannon AFB, New Mexico

ENVIROSOLVE SOUTHWEST, INC.

BY J. Scott Logan

TITLE President

SIGNATURE

DATE October 29, 1996

Corporate Seal

ENVIROSOLVE
Providing Waste Management Solutions

HAZARDOUS WASTE PROFILE SHEET

Part 1

A. General Information — **Waste Profile No.** _____

SWMU # 46 (OWS CONTENTS - SLUDGE)

1. Generator Name
ANNON AFB

Facility Address
429 ECS/MA (X 4-2369)
126 SOUTH TORCH BLVD
CANNON AFB, NM

3. Generator USEPA ID: NM7572124454
4. Generator State ID: 99935
5. ZipCode: 88103

6. Technical Contact: BRIAN JORDAN
7. Title HTRW CHEMIST
Phone: 505-342-3472

B. 1. Name of waste: OWS CONTENTS - SLUDGE
2. USEPA/or/State Waste Code(s): N/A
3. Process generating waste: Oil/Water Seperator at Bldg. No. 196
4. Projected Annual Volume/Units: N/A **5. Mode of collection: DRUM**
6. Is this waste a Dioxin listed waste as defined in CFR 261.31 (e.g., F020, F021, F026, F027, or F028)?
YES | NO X

7. Is this waste restricted from land disposal (40CFR 268)? YES | NO X
Has an exemption been granted? YES | NO
Does waste meet applicable treatment standards? YES | NO
Reference Standards: 40 CFR 261.33; 268.42

Part II

1. MATERIAL CHARACTERIZATION (Optional)
a. Color BLACK
b. Density
c. BTU
d. Total Solids
e. Ash Content
f. Number of layers TWO

2. RCRA CHARACTERISTICS

a. Physical State	solid	liquid	X	semi-solid
	gas	other:		
Treatment	wastewater	X	non-wastewater	

b. Ignitable	YES	X NO	**d. Reactive**	YES	X NO
Flashpoint	>200	deg F	Water Reactive		
High TOC (>10%)			Cyanide Reactive		
Low TOC (<10%)			Sulfur Reactive		270
e. Corrosive	YES	X NO	**f. TCLP**	YES	X NO
pH:	7.2		for:		
Corrodes:					

3. CHEMICAL COMPOSITION (ppm or mg/L)

a. Copper		f. Phenolics	
b. Nickel		g. Total Halogens	
c. Zinc		h. Volatile Organics	126.29
d. Chromium VI	0.058	i. PCBs	

e. Other:

NOTE: EXPLOSIVES, SHOCK-SENSTIVE, PYROPHORIC, RADIOACTIVE, AND ETIOLOGICAL WASTE, NORMALLY ARE NOT ACCEPTED BY DRMO.

4. MATERIAL COMPOSITION

Component	Concentration	Range %
SLUDGE		10%
CONTAMINATED WATE	RS/	90%

5. Shipping Information
a. DOT Hazardous Material: YES | X NO
b. Proper Shipping Name: N/A
c. Hazard Class:
d. Additional Description:
e. Method of Shipment: Bulk | X Drum | Other:
f. CERCLA Reportable Quantitiy: NO
g. Emergency Response Guide, DOT Pub. 5800.4 | Page No. | Ed. (yr)
h. Special Handling Information:
NONE REQUIRED

6. GENERATOR CERTIFICATION
Basis of Information:
Lab Analysis YES (Attach Results)
User Knowledge (Attach supporting documents & explain how and why documents comply with RCRA requirements)

I,SUSAN GANT, hereby certify that all information submitted in this and all attached documents is to the best of my knowledge, an accurate representation of the waste turned in to DRMO. All known or suspected hazards have been disclosed.

Generator Representative: _____ **Date:** 30 Oct 96
Title: Project Technical Manager, USACE

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. NM7572124454 | Manifest Document No. 97002 | 2. Page 1 of 1

3. Generator's Name and Mailing Address
27 CES/CEVP (ATTN: ~~Vera Woods~~) Bill Hamilton ATTN:
1 ENGINEERS WAY CANNON AFB, NM 88103-5136

4. Generator's Phone (505) 784-4820

5. Transporter 1 Company Name: ENVIROSOLVE Southwest, Inc
6. US EPA ID Number: NM0000580240

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

9. Designated Facility Name and Site Address
ENVIRO-SOLVE Southwest, INC.
5338 WILLIAMS SE
ALBUQUERQUE, NM 87105
10. US EPA ID Number: NM0000580240

A. Transporter's Phone: 505-873-0964
B. Transporter's Phone
C. Facility's Phone: 505-873-0964

11. Waste Shipping Name and Description	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
a. NON RCRA - NON DOT REGULATED WASTE LIQUID (Sump Waste)	021	DM	94150	P
b.				
c.				
d.				

D. Additional Descriptions for Materials Listed Above
11. WASTEWATER TREATMENT TO MEET NPDES/CWA
11.A Apv. #960869

E. Handling Codes for Wastes Listed Above
WWT

Special Handling Instructions and Additional Information
SWMU I.D.#'s - 7, 11, 336, 9, 47A&B, 92, 57, & 001.

SEE ATTACHED FULL TCLP ANALYSIS

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: Pike John S. | Signature | Month 01 Day 27 Year 97

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Tom Morris | Signature | Month 01 Day 27 Year 97

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

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.
Printed/Typed Name: Tom Morris | Signature | Month 01 Day 27 Year 97

GENERATOR → TRANSPORTER → FACILITY

ORIGINAL – RETURN TO GENERATOR

2208

ENVIROSOLVE
SOUTHWEST, INC.

Corporate Office/TSD
2131 S. Rosedale Ave.
Tulsa, OK 74107
918-587-9664: Office
918-587-5817: Fax
info@enviro-solve.com

Sales/Field Office
15975 W. Waterloo
Edmond, OK 73003
405-348-5690: Office
405-348-5692: Fax

New Mexico TSD
5338 Williams St. S.E.
Albuquerque, NM 87105
505-873-0964: Office
505-873-0965: Fax
envirosw@RT66.com

ENVIROSOLVE
WASTE SERVICES, INC.

Corporate Office/TSD
2131 S. Rosedale Ave.
Tulsa, OK 74107
918-587-9664: Office
918-587-5817: Fax
info@enviro-solve.com

CERTIFICATE OF TREATMENT/RECYCLING

This is to certify that the waste material manifested to Envirosolve Southwest, Inc. on Document No. 97002 was treated or recycled through application of one of the following processes:

_____ The subject material was blended into a fuel, then burned for energy recovery in an off-site industrial furnace in accordance with the provisions of 40 CFR 261.6(a)(2)(ii) and 40 CFR 266 Subpart H.

__11a__ The subject material underwent physical and chemical treatment with the treated effluent discharged to a POTW in accordance with industrial wastewater discharge permit 2579 and the provisions of 40 CFR 403.

_____ The subject material was recycled pursuant to the management standards for used oil in accordance with 40 CFR 279.

_____ The subject material was processed as a recyclable material pursuant to:

- _____ 40 CFR 261.6(a)(3)(ii) used battery
- _____ 40 CFR 261.6(a)(3)(iii) scrap metal

_____ The subject material was reclaimed as a used chlorofluorocarbon refrigerant pursuant to 40 CFR 261 4(b)(12).

_____ The subject material was shipped to a commercial TSCA/hazardous waste treatment, storage, or disposal facility regulated pursuant to 40 CFR 261 - 265 and/or 40 CFR 761.

_____ The subject material was recycled in accordance with the applicable provisions of 40 CFR 261.

_____ The subject material was shipped to a Commercial Subtitle D Landfill facility.

GENERATOR 27CE/CEVP, CANNON AFB

EPA ID. NO. NM7572124454

ADDRESS 111 ENGINEERS WAY, CANNON AFB, NM 88103-5136

ENVIROSOLVE SOUTHWEST, INC.

BY J. Scott Logan

TITLE President

SIGNATURE

DATE MARCH 6, 1997

Corporate Seal

NON-HAZARDOUS WASTE PROFILE SHEET

Part I

A. General Information — **Waste Profile No.**

SWMU # 001 (OWS CONTENTS - SLUDGE)

1. Generator Name
ANNON AFB

2. Facility Address
429 ECS/MA (X 4-2369)
126 SOUTH TORCH BLVD
CANNON AFB, NM

3. Generator USEPA ID: NM7572124454
4. Generator State ID: 99935
5. ZipCode: 88103

6. Technical Contact: BRIAN JORDAN
7. Title HTRW CHEMIST
Phone: 505-342-3472

B. 1. Name of waste: OWS CONTENTS - SLUDGE
2. USEPA/or/State Waste Code(s): N/A
3. Process generating waste: Oil/Water Seperator at Bldg. No. 196
4. Projected Annual Volume/Units: N/A
5. Mode of collection: DRUM
6. Is this waste a Dioxin listed waste as defined in CFR 261.31 (e.g., F020, F021, F026, F027, or F028)?

YES	NO X

7. Is this waste restricted from land disposal (40CFR 268)?

YES	NO X
Has an exemption been granted? YES	NO
Does waste meet applicable treatment standards? YES	NO

Reference Standards: 40 CFR 261.33; 268.42

Part II

1. MATERIAL CHARACTERIZATION (Optional)
a. Color BLACK
b. Density
c. BTU
d. Total Solids
e. Ash Content
f. Number of layers ONE

2. RCRA CHARACTERISTICS

a. Physical State		solid	liquid	X semi-solid
	gas	other:		
b. Treatment		wastewater	X	non-wastewater

c. Ignitable	YES	X NO	**d. Reactive**	YES	X NO
Flashpoint	>60	deg C	Water Reactive		
High TOC (>10%)			Cyanide Reactive		
Low TOC (<10%)			Sulfur Reactive		
e. Corrosive	YES	X NO	**f. TCLP**	YES	X NO
pH:	7.5		for:		
Corrodes:					

3. CHEMICAL COMPOSITION (ppm or mg/L)

a. Barium	9.6 ppm	f. Phenolics	
b. Cadmium	ND TCLP	g. Total Halogens	
c. Lead	ND TCLP	h. Volatile Organics	
d. Chromium VI	4.0 PPM	i. PCBs	

e. Other: TPH 4310

NOTE: EXPLOSIVES, SHOCK-SENSTIVE, PYROPHORIC, RADIOACTIVE, AND ETIOLOGICAL WASTE, NORMALLY ARE NOT ACCEPTED BY DRMO.

4. MATERIAL COMPOSITION

Component	Concentration	Range %
SLUDGE		100%

5. Shipping Information
a. DOT Hazardous Material: YES X NO
b. Proper Shipping Name: N/A
c. Hazard Class:
d. Additional Description:
e. Method of Shipment: Bulk X Drum Other:
f. CERCLA Reportable Quantity: NO
g. Emergency Response Guide, DOT Pub. 5800.4 Page No. Ed. (yr)
h. Special Handling Information:
NONE REQUIRED

6. GENERATOR CERTIFICATION
Basis of Information:

Lab Analysis YES	(Attach Results)
User Knowledge	(Attach supporting documents & explain how and why documents comply with RCRA requirements)

I, SUSAN GANT, hereby certify that all information submitted in this and all attached documents is to the best of my knowledge, an accurate representation of the waste turned in to DRMO. All known or suspected hazards have been disclosed.

Generator Representative: for: Brian Jordan **Date:** 15 Jan 97
Title: Project Technical Manager, USACE

NON-HAZARDOUS WAST OFILE SHEET

Part I

A. General Information — **Waste Profile No.**

SWMU # 11 (OWS CONTENTS - SLUDGE)

1. Generator Name
CANNON AFB

2. Facility Address
429 ECS/MA (X 4-2369)
126 SOUTH TORCH BLVD
CANNON AFB, NM

3. Generator USEPA ID: NM7572124454
4. Generator State ID: 99935
5. ZipCode: 88103

6. Technical Contact: BRIAN JORDAN
7. Title HTRW CHEMIST **Phone:** 505-342-3472

B. 1. Name of waste: OWS CONTENTS - SLUDGE
2. USEPA/or/State Waste Code(s):
3. Process generating waste: Oil/Water Seperator at Bldg. No. 170
4. Projected Annual Volume/Units: N/A
5. Mode of collection: DRUM
6. Is this waste a Dioxin listed waste as defined in CFR 261.31 (e.g., F020, F021, F026, F027, or F028)?

YES	NO X

7. Is this waste restricted from land disposal (40CFR 268)?

YES	NO
YES	NO
YES	NO

Has an exemption been granted?
Does waste meet applicable treatment standards?
Reference Standards: 40 CFR 261.33; 268.42

Part II

1. MATERIAL CHARACTERIZATION (Optional)
a. Color BLACK
b. Density
c. BTU
d. Total Solids
e. Ash Content
f. Number of layers TWO

2. RCRA CHARACTERISTICS

a. Physical State	solid	liquid	X	semi-solid	
	gas	other:			
b. Treatment	wastewater	X	non-wastewater		

c. Ignitable	YES	X NO	**d. Reactive**	YES	X NO
Flashpoint	>200 deg F		Water Reactive		
High TOC (>10%)			Cyanide Reactive	ND	
Low TOC (<10%)			Sulfur Reactive	370	
e. Corrosive	YES	X NO	**f. TCLP**	YES	X NO
pH:	7.9		for:		
Corrodes:					

3. CHEMICAL COMPOSITION (ppm or mg/L)

a. Copper		f. Phenolics	
b. Nickel		g. Total Halogens	3.2
c. Zinc		h. Volatile Organics	460.7
d. Chromium VI		i. PCBs	

e. Other:

NOTE EXPLOSIVES, SHOCK-SENSITIVE, PYROPHORIC, RADIOACTIVE, AND ETIOLOGICAL WASTE, NORMALLY ARE NOT ACCEPTED BY DRMO

4. MATERIAL COMPOSITION

Component	Concentration	Range %
SLUDGE		

5. Shipping Information
a. DOT Hazardous Material: YES X NO
b. Proper Shipping Name: N/A
c. Hazard Class:
d. Additional Description:
e. Method of Shipment: Bulk X Drum Other:
f. CERCLA Reportable Quantity: NO
g. Emergency Response Guide, DOT Pub. 5800.4 Page No. Ed. (yr)
h. Special Handling Information:
NONE REQUIRED

6. GENERATOR CERTIFICATION
Basis of Information:

Lab Analysis YES	(Attach Results)
User Knowledge	(Attach supporting documents & explain how and why documents comply with RCRA requirements)

I, SUSAN GANT, hereby certify that all information submitted in this and all attached documents is to the best of my knowledge, an accurate representation of the waste turned in to DRMO. All known or suspected hazards have been disclosed.

Generator Representative: **Date:** 4 NOV 96
Title: Project Technical Manager, USACE

NON-HAZARDOUS WASTE PROFILE SHEET

Part I

A. General Information — **Waste Profile No.**

SWMU # 009 (OWS CONTENTS - SLUDGE)

1. Generator Name
CANNON AFB

2. Facility Address
429 ECS/MA (X 4-2369)
126 SOUTH TORCH BLVD
CANNON AFB, NM

3. Generator USEPA ID: NM7572124454
4. Generator State ID: 99935
5. ZipCode: 88103

6. Technical Contact: BRIAN JORDAN
7. Title HTRW CHEMIST
Phone: 505-342-3472

B. 1. Name of waste: OWS CONTENTS - SLUDGE
2. USEPA/or/State Waste Code(s): N/A
3. Process generating waste: Oil/Water Seperator at Bldg. No. 165
4. Projected Annual Volume/Units: N/A
5. Mode of collection: DRUM
6. Is this waste a Dioxin listed waste as defined in CFR 261.31 (e.g., F020, F021, F026, F027, or F028)?

YES	NO X

7. Is this waste restricted from land disposal (40CFR 268)?

YES	NO X
YES	NO
YES	NO

Has an exemption been granted?
Does waste meet applicable treatment standards?
Reference Standards: 40 CFR 261 33; 268.42

Part II

1. MATERIAL CHARACTERIZATION (Optional)
a. Color BROWN
b. Density
c. BTU
d. Total Solids
e. Ash Content
f. Number of layers ONE

2. RCRA CHARACTERISTICS

a. Physical State		solid	liquid	X semi-solid
	gas	other:		
b. Treatment		wastewater	X	non-wastewater

c. Ignitable	YES	X NO	**d. Reactive**	YES	X NO
Flashpoint	>60	deg C	Water Reactive		
High TOC (>10%)			Cyanide Reactive		
Low TOC (<10%)			Sulfur Reactive		
e. Corrosive	YES	X NO	**f. TCLP**	YES	X NO
pH:	7.1		for:		
Corrodes:					

3. CHEMICAL COMPOSITION (ppm or mg/L)

a. Barium	6.7 ppm	f. Phenolics	
b. Lead	2.02 ppm	g. Total Halogens	4.91 ppm
c. Cadmium	0.17 ppm	h. Volatile Organics	0.89 ppm
d. Chromium VI	0.8 ppm	i. PCBs	

e. Other: TPH 453 ppm

NOTE: EXPLOSIVES, SHOCK-SENSTIVE, PYROPHORIC, RADIOACTIVE, AND ETIOLOGICAL WASTE NORMALLY ARE NOT ACCEPTED BY DRMO

4. MATERIAL COMPOSITION

Component	Concentration	Range %
SLUDGE		100%

5. Shipping Information
a. DOT Hazardous Material: YES X NO
b. Proper Shipping Name: N/A
c. Hazard Class:
d. Additional Description:
e. Method of Shipment: Bulk X Drum Other:
f. CERCLA Reportable Quantitiy: NO
g. Emergency Response Guide, DOT Pub. 5800.4 Page No. Ed. (yr)
h. Special Handling Information:
NONE REQUIRED

6. GENERATOR CERTIFICATION
Basis of Information:

Lab Analysis YES	(Attach Results)
User Knowledge	(Attach supporting documents & explain how and why documents comply with RCRA requirements)

I, SUSAN GANT, hereby certify that all information submitted in this and all attached documents is to the best of my knowledge, an accurate representation of the waste turned in to DRMO. All known or suspected hazards have been disclosed.

Generator Representative: for: [signature] **Date:** 15 Jan 97
Title: Project Technical Manager, USACE

Part I Waste Profile No.

A. General Information

SWMU # 47a (OWS CONTENTS - SLUD

1. Generator Name

CANNON AFB

Facility Address

429 ECS/MA (X 4-2369)
126 SOUTH TORCH BLVD
CANNON AFB, NM

3. Generator USEPA ID: NM7572124454

4. Generator State ID: 99935

5. ZipCode: 88103

6. Technical Contact: BRIAN JORDAN

7. Title HTRW CHEMIST **Phone:** 505-342-3472

B. 1. **Name of waste:** OWS CONTENTS - SLUDGE
2. **USEPA/or/State Waste Code(s):** N/A
3. **Process generating waste:** Oil/Water Seperator at Bldg. No. 494
4. **Projected Annual Volume/Units:** N/A
5. **Mode of collection:** DRUM
6. **Is this waste a Dioxin listed waste as defined in CFR 261.31 (e.g., F020, F021, F026, F027, or F028)?** YES | NO X
7. **Is this waste restricted from land disposal (40CFR 268)?** YES | NO X
   Has an exemption been granted? YES | NO
   Does waste meet applicable treatment standards? YES | NO
   Reference Standards: 40 CFR 261.33; 268.42

Part II

1. MATERIAL CHARACTERIZATION (Optional)

a. Color BLACK
b. Density
c. BTU
d. Total Solids
e. Ash Content
f. Number of layers ONE

2. RCRA CHARACTERISTICS

a. Physical State solid | liquid | X semi-solid | gas | other:

b. Treatment wastewater X | non-wastewater

c. Ignitable YES | X NO
Flashpoint >60 deg C
High TOC (>10%)
Low TOC (<10%)

d. Reactive YES | X NO
Water Reactive
Cyanide Reactive
Sulfur Reactive

e. Corrosive YES | X NO
pH: 6.8
Corrodes:

f. TCLP YES | X NO
for:

3. CHEMICAL COMPOSITION (ppm or mg/L)

a. Barium	68 ppm	f. Phenolics	
b. Cadmium	0.5 ppm	g. Total Halogens	4.9 ppb
c. Lead	ND	h. Volatile Organics	0.89 ppb
d. Chromium VI	2.7 ppm	i. PCBs	

e. Other: TPH 18600 ppm

NOTE: EXPLOSIVES, SHOCK-SENSITIVE, PYROPHORIC, RADIOACTIVE, AND ETIOLOGICAL WASTE, NORMALLY ARE NOT ACCEPTED BY DRMO

4. MATERIAL COMPOSITION

Component	Concentration	Range %
SLUDGE		100%

5. Shipping Information

a. **DOT Hazardous Material:** YES | X NO
b. **Proper Shipping Name:** N/A
c. **Hazard Class:**
d. **Additional Description:**
e. **Method of Shipment:** Bulk | X Drum | Other:
f. **CERCLA Reportable Quantitiy:** NO
g. **Emergency Response Guide,** DOT Pub. 5800.4 | Page No. | Ed. (yr)
h. **Special Handling Information:** NONE REQUIRED

6. GENERATOR CERTIFICATION

Basis of Information:

Lab Analysis YES (Attach Results)
User Knowledge (Attach supporting documents & explain how and why documents comply with RCRA requirements)

I, SUSAN GANT, hereby certify that all information submitted in this and all attached documents is to the best of my knowledge, an accurate representation of the waste turned in to DRMO. All known or suspected hazards have been disclosed.

Generator Representative: [signature] **Date:** 15 Jan 97

Title: Project Technical Manager, USACE

Waste Profile No.

Part I

A. General Information

SWMU # 47a (OWS CONTENTS - WATE

1. Generator Name

CANNON AFB

Facility Address

429 ECS/MA (X 4-2369)
126 SOUTH TORCH BLVD
CANNON AFB, NM

3. Generator USEPA ID: NM7572124454

4. Generator State ID: 99935

5. ZipCode: 88103

6. Technical Contact: BRIAN JORDAN

7. Title HTRW CHEMIST

Phone: 505-342-3472

B. 1. **Name of waste:** OWS CONTENTS - WATER
2. **USEPA/or/State Waste Code(s):** N/A
3. **Process generating waste:** Oil/Water Seperator at Bldg. No. 494
4. **Projected Annual Volume/Units:** N/A
5. **Mode of collection:** DRUM
6. **Is this waste a Dioxin listed waste as defined in CFR 261.31 (e.g., F020, F021, F026, F027, or F028)?** YES | NO X
7. **Is this waste restricted from land disposal (40CFR 268)?** YES | NO X
   Has an exemption been granted? YES | NO
   Does waste meet applicable treatment standards? YES | NO
   Reference Standards: 40 CFR 261.33; 268.42

Part II

1. MATERIAL CHARACTERIZATION (Optional)

a. Color Clear
b. Density
c. BTU
d. Total Solids
e. Ash Content
f. Number of layers ONE

2. RCRA CHARACTERISTICS

a. Physical State: solid | X liquid | semi-solid | gas | other:

b. Treatment: wastewater X | non-wastewater

c. Ignitable: YES | X NO
Flashpoint >60 deg C
High TOC (>10%)
Low TOC (<10%)

d. Reactive: YES | X NO
Water Reactive
Cyanide Reactive
Sulfur Reactive

e. Corrosive: YES | X NO
pH: 6.8
Corrodes:

f. TCLP: YES | X NO
for:

3. CHEMICAL COMPOSITION (ppm or mg/L)

a. Copper		f. Phenolics	
b. Nickel		g. Total Halogens	
c. Zinc		h. Volatile Organics	1140 ppb
d. Chromium VI		i. PCBs	

e. Other: TPH 6.8 ppm

NOTE: EXPLOSIVES, SHOCK-SENSITIVE, PYROPHORIC, RADIOACTIVE, AND ETIOLOGICAL WASTE, NORMALLY ARE NOT ACCEPTED BY DRMO

4. MATERIAL COMPOSITION

Component	Concentration	Range %
LIQUID		100%

5. Shipping Information

a. DOT Hazardous Material: YES | X NO

b. Proper Shipping Name: N/A

c. Hazard Class:

d. Additional Description:

e. Method of Shipment: Bulk | X Drum | Other:

f. CERCLA Reportable Quantitiy: NO

g. Emergency Response Guide, DOT Pub. 5800.4 | Page No. | Ed. (yr)

h. Special Handling Information:
NONE REQUIRED

6. GENERATOR CERTIFICATION

Basis of Information:

Lab Analysis YES	(Attach Results)
User Knowledge	(Attach supporting documents & explain how and why documents comply with RCRA requirements)

I, SUSAN GANT, hereby certify that all information submitted in this and all attached documents is to the best of my knowledge, an accurate representation of the waste turned in to DRMO. All known or suspected hazards have been disclosed.

Generator Representative: for: [signature] **Date:** 15 Jan 97

Title: Project Technical Manager, USACE

NON-HAZARDOUS WASTE P

Part I — **Waste Profile**

A. General Information

SWMU # 47b (OWS CONTENTS - WATER)

1. Generator Name

CANNON AFB

Facility Address

429 ECS/MA (X 4-2369)
126 SOUTH TORCH BLVD
CANNON AFB, NM

3. Generator USEPA ID: NM7572124454

4. Generator State ID: 99935

5. ZipCode: 88103

6. Technical Contact: BRIAN JORDAN

7. Title HTRW CHEMIST

Phone: 505-342-3472

B. 1. Name of waste: OWS CONTENTS - WATER

2. USEPA/or/State Waste Code(s): N/A

3. Process generating waste: Oil/Water Seperator at Bldg. No. 494

4. Projected Annual Volume/Units: N/A

5. Mode of collection: DRUM

6. Is this waste a Dioxin listed waste as defined in CFR 261.31 (e.g., F020, F021, F026, F027, or F028)?

YES	NO X

7. Is this waste restricted from land disposal (40CFR 268)?

YES	NO X
Has an exemption been granted? YES	NO
Does waste meet applicable treatment standards? YES	NO

Reference Standards: 40 CFR 261.33; 268.42

Part II

1. MATERIAL CHARACTERIZATION (Optional)

a. Color BLACK
b. Density
c. BTU
d. Total Solids
e. Ash Content
f. Number of layers ONE

2. RCRA CHARACTERISTICS

a. Physical State: solid | X liquid | semi-solid | gas | other:

b. Treatment: wastewater X | non-wastewater

c. Ignitable: YES | X NO
Flashpoint >60 deg C
High TOC (>10%)
Low TOC (<10%)

d. Reactive: YES | X NO
Water Reactive
Cyanide Reactive
Sulfur Reactive

e. Corrosive: YES | X NO
pH: 6.6
Corrodes:

f. TCLP: YES | X NO
for:

3. CHEMICAL COMPOSITION (ppm or mg/L)

a. BARIUM	0.6 ppm	f. Phenolics	
b. Cadmium	0.07 ppm	g. Total Halogens	4.1 ppb
c. Lead	1.7 ppm	h. Volatile Organics	59.9 ppb
d. Chromium VI	0.06 ppm	i. PCBs	

e. Other: TPH 430000 ppm

NOTE: EXPLOSIVES, SHOCK-SENSITIVE, PYROPHORIC, RADIOACTIVE, AND ETIOLOGICAL WASTE, NORMALLY ARE NOT ACCEPTED BY DRMO

4. MATERIAL COMPOSITION

Component	Concentration	Range %
LIQUID		100%

5. Shipping Information

a. DOT Hazardous Material: YES | X NO

b. Proper Shipping Name: N/A

c. Hazard Class:

d. Additional Description:

e. Method of Shipment: Bulk | X Drum | Other:

f. CERCLA Reportable Quantity: NO

g. Emergency Response Guide, DOT Pub. 5800.4 | Page No. | Ed. (yr)

h. Special Handling Information:
NONE REQUIRED

6. GENERATOR CERTIFICATION

Basis of Information:

Lab Analysis YES	(Attach Results)
User Knowledge	(Attach supporting documents & explain how and why documents comply with RCRA requirements)

I, SUSAN GANT, hereby certify that all information submitted in this and all attached documents is to the best of my knowledge, an accurate representation of the waste turned in to DRMO. All known or suspected hazards have been disclosed.

Generator Representative: [signature] **Date:** 15 Jan 97

Title: Project Technical Manager, USACE

NON-HAZARDOUS WASTE P[illegible]PILE SHEET

Part I

A. General Information — **Waste Prof[illegible]o.**

SWMU # 57 (OWS CONTENTS - WATER)

1. Generator Name
CANNON AFB

Facility Address
429 ECS/MA (X 4-2369)
126 SOUTH TORCH BLVD
CANNON AFB, NM

3. Generator USEPA ID: NM7572124454
4. Generator State ID: 99935
5. ZipCode: 88103

6. Technical Contact: BRIAN JORDAN
7. Title HTRW CHEMIST
Phone: 505-342-3472

B. 1. Name of waste: OWS CONTENTS - WATER
2. USEPA/or/State Waste Code(s): N/A
3. Process generating waste: Oil/Water Seperator at Bldg. No. 379
4. Projected Annual Volume/Units: N/A
5. Mode of collection: DRUM
6. Is this waste a Dioxin listed waste as defined in CFR 261.31 (e.g., F020, F021, F026, F027, or F028)?

YES	NO X

7. Is this waste restricted from land disposal (40CFR 268)?

YES	NO X
YES	NO
YES	NO

Has an exemption been granted?
Does waste meet applicable treatment standards?
Reference Standards: 40 CFR 261.33; 268.42

Part II

1. MATERIAL CHARACTERIZATION (Optional)
a. Color BROWN
b. Density — c. BTU
d. Total Solids — e. Ash Content
f. Number of layers ONE

2. RCRA CHARACTERISTICS

a. Physical State	solid	liquid	X	semi-solid
	gas	other:		
Treatment	wastewater	X	non-wastewater	

c. Ignitable	YES	X NO	**d. Reactive**	YES	X NO
Flashpoint	>60 deg C		Water Reactive		
High TOC (>10%)			Cyanide Reactive		
Low TOC (<10%)			Sulfur Reactive		
e. Corrosive	YES	X NO	**f. TCLP**	YES	X NO
pH:	8.3		for:		
Corrodes:					

3. CHEMICAL COMPOSITION (ppm or mg/L)

a. Barium	0.04 ppm	f. Phenolics	
b. Lead	0.05 ppm	g. Total Halogens	50.1 ppb
c. Cadmium		h. Volatile Organics	706 ppb
d. Chromium VI		i. PCBs	

e. Other: TPH 1900 ppm

NOTE: EXPLOSIVES, SHOCK-SENSITIVE, PYROPHORIC, RADIOACTIVE, AND ETIOLOGICAL WASTE NORMALLY ARE NOT ACCEPTED BY DRMO.

4. MATERIAL COMPOSITION

Component	Concentration	Range %
LIQUID		100%

5. Shipping Information
a. DOT Hazardous Material: YES X NO
b. Proper Shipping Name: N/A
c. Hazard Class:
d. Additional Description:
e. Method of Shipment:
Bulk X Drum Other:
f. CERCLA Reportable Quantitiy: NO
g. Emergency Response Guide,
DOT Pub 5800.4 | Page No. | Ed. (yr)
h. Special Handling Information:
NONE REQUIRED

6. GENERATOR CERTIFICATION
Basis of Information:

Lab Analysis YES	(Attach Results)
User Knowledge	(Attach supporting documents & explain how and why documents comply with RCRA requirements)

I,SUSAN GANT, hereby certify that all information submitted in this and all attached documents is to the best of my knowledge, an accurate representation of the waste turned in to DRMO. All known or suspected hazards have been disclosed.

[illegible]enerator Representative: [illegible] **Date:** 15 Jan 97
[illegible]tle: Project Technical Manager, USACE

New Mexico Special Waste

NON-HAZARDOUS WASTE PR[illegible]LE SHEET

Part I

A. General Information — Waste Profil[illegible]

SWMU # 57 (OWS CONTENTS - SLUDGE)

[illegible]enerator Name
[illegible]NON AFB

2. Facility Address
429 ECS/MA (X 4-2369)
126 SOUTH TORCH BLVD
CANNON AFB, NM

3. Generator USEPA ID: NM7572124454
4. Generator State ID: 99935
5. ZipCode: 88103

6. Technical Contact: BRIAN JORDAN
7. Title HTRW CHEMIST
Phone: 505-342-3472

B. 1. Name of waste: OWS CONTENTS - SLUDGE
2. USEPA/or/State Waste Code(s): N/A
3. Process generating waste: Oil/Water Seperator at Bldg. No. 379
4. Projected Annual Volume/Units: N/A
5. Mode of collection: DRUM
6. Is this waste a Dioxin listed waste as defined in CFR 261.31 (e.g., F020, F021, F026, F027, or F028)?

YES	NO X

7. Is this waste restricted from land disposal (40CFR 268)?

	YES / NO X
Has an exemption been granted?	YES / NO
Does waste meet applicable treatment standards?	YES / NO

Reference Standards: 40 CFR 261.33; 268.42

Part II

1. MATERIAL CHARACTERIZATION (Optional)

a. Color BLACK
b. Density
c. BTU
d. Total Solids
e. Ash Content
f. Number of layers ONE

2. RCRA CHARACTERISTICS

Physical State	solid	liquid	X	semi-solid
	gas	other:		

b. Treatment — wastewater X — non-wastewater

c. Ignitable — YES — X NO
Flashpoint >60 deg C
High TOC (>10%)
Low TOC (<10%)

d. Reactive — YES — X NO
Water Reactive
Cyanide Reactive
Sulfur Reactive

e. Corrosive — YES — X NO
pH: 9.4
Corrodes:

f. TCLP — YES — X NO
for:

3. CHEMICAL COMPOSITION (ppm or mg/L)

a. Barium	12.2 ppm	f. Phenolics	
b. Cadmium	0.8 ppm	g. Total Halogens	
c. Lead	ND	h. Volatile Organics	
d. Chromium VI	1.9 ppm	i. PCBs	

e. Other: TPH 43900 ppm

NOTE: EXPLOSIVES, SHOCK-SENSTIVE, PYROPHORIC, RADIOACTIVE, AND ETIOLOGICAL WASTE, NORMALLY ARE NOT ACCEPTED BY DRMO

4. MATERIAL COMPOSITION

Component	Concentration	Range %
SLUDGE		100%

5. Shipping Information

a. DOT Hazardous Material: YES — X NO
b. Proper Shipping Name: N/A
c. Hazard Class:
d. Additional Description:
e. Method of Shipment: Bulk — X Drum — Other:
f. CERCLA Reportable Quantity: NO
g. Emergency Response Guide, DOT Pub. 5800.4 — Page No. — Ed. (yr)
h. Special Handling Information: NONE REQUIRED

6. GENERATOR CERTIFICATION

Basis of Information:

Lab Analysis YES	(Attach Results)
User Knowledge	(Attach supporting documents & explain how and why documents comply with RCRA requirements)

I, SUSAN GANT, hereby certify that all information submitted in this and all attached documents is to the best of my knowledge, an accurate representation of the waste turned in to DRMO. All known or suspected hazards have been disclosed.

Generator Representative: [signature] Date: 15 Jan 97
Title: Project Technical Manager, USACE

New Mexico Special Waste

STRAIGHT BILL OF LADING-ORIGINAL-NOT NEGOTIABLE-DOMESTIC

OVERNITE TRANSPORTATION COMPANY

CONSIGNEE: Envirosolve Southwest, Inc.
ADDRESS: 5338 Williams SE
STREET ADDRESS:
CITY/STATE: Albuquerque, NM
ZIP (REQUIRED): 87105

SHIPPER: Cannon AFB
STREET ADDRESS: 429 ECS/AM (x4-2369)
STREET ADDRESS: 126 Torch Blvd
CITY/STATE: Cannon AFB NM
ZIP (REQUIRED): 88101

DATE: 3/27/97

SHIPPER'S NO.:
BILL OF LADING NO.: 9700103
P.O. NO.: LCI2

~~NO~~	~~SWMU 32A NON REG WATER~~			NONE	
NO	SWMU 8 NON REG	3150	P		
~~NO~~	~~SWMU 9 NON REG.~~				
NO	SWMU 51 NON REG	2800	P		
NO	SWMU 94 NON REG.	3150	P		
NO	SWMU 32A NON REG	3150	P		

Driver assisted in loading? ☑ YES ☐ NO

Linear Feet of Trailer:

Freight charges are to be paid by:
☐ SHIPPER (PREPAID)
☐ CONSIGNEE (COLLECT)

On collect on delivery shipments the letters "COD" must appear before consignee's name or as otherwise provided in Item 430, Sec. 1 of NMFC.

Collect on Delivery

$

C.O.D. Amount
☐ Cash or Certified Check
☐ Consignee Check Acceptable

C.O.D. fee to be paid by: Shipper ☐ Consignee ☐

CARRIER LIABILITY: Carrier liability for loss or damage will be the lesser of (1) the actual invoice value of the article(s) lost, damaged or destroyed; or **(2) the amount determined from applicable limited liability provisions of the NMFC; or (3) forty-five dollars ($45.00) per pound, per article, unless a higher value is declared in writing in the "Value" column on the bill of lading at the time of shipment and applicable charges are paid.

**Where a "rate" is dependent on value, the agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding _____ per _____

Received $ _____ to apply in prepayment of the charges on the property described hereon.

(Agent or Cashier)

ES ADVANCED $

Subject to Section 7 of Conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement:
The carrier shall not make delivery of the shipment without payment of freight and all other lawful charges.

(Signature of Consignor)

REMIT C.O.D. CHECK/CASH TO:

RE...ED, Subject to the classifications and transportation service contracts and/or tariffs in effect on the date of the issue of this Bill of Lading, the property described above, in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as shown above which said company (the word company being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its own railroad, water line, highway route or routes, or within the territory of its highway operations, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed, as to each carrier of all or any of said property over all or any portion of said route to destination, and as to each party at any time interested in all or any of said property, that every service to be performed hereunder shall be subject to all the conditions not prohibited by law, whether printed or written, herein contained, including the conditions on back hereof, which are hereby agreed to by the shipper and accepted for himself and his assigns.

*Mark with an "X" to designate hazardous materials as defined in title 49 of the Code of Federal Regulations.

This is to certify that the above named materials are properly classified, described, packaged, marked, and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation.

SHIPPER: X CANNON AFB
PER: [signature]

CARRIER: X ~~ENVIROSOLVE~~ Overnight
PER: X Tom Williams

TOTAL NO. OF PIECES
DATE RECEIVED: 3/27/97

PLACE CARRIER PRO LABEL HERE

ROUTE	R/	
REV/	ADV	BYD
BC/	CROSS REF.	

OTC-199 (REV. 12/93)
PRINTED IN U.S.A.

CARRIER COPY

NON-HAZARDOUS WASTE PROFILE SHEET

Part I

A. General Information — **Waste Profile No.**

SWMU # 08 (OWS CONTENTS - WATER)

1. Generator Name
CANNON AFB

2. Facility Address
429 ECS/MA (X 4-2369)
126 SOUTH TORCH BLVD
CANNON AFB, NM

3. Generator USEPA ID: NM7572124454
4. Generator State ID: 99935
5. ZipCode: 88103

6. Technical Contact: BRIAN JORDAN
7. Title HTRW CHEMIST
Phone: 505-342-3472

B. 1. Name of waste: OWS CONTENTS - WATER
2. USEPA/or/State Waste Code(s): N/A
3. Process generating waste: Oil/Water Seperator at Bldg. No. 165
4. Projected Annual Volume/Units: N/A
5. Mode of collection: DRUM
6. Is this waste a Dioxin listed waste as defined in CFR 261.31 (e.g., F020, F021, F026, F027, or F028)?

YES	NO X

7. Is this waste restricted from land disposal (40CFR 268)?

YES	NO X
YES	NO
YES	NO

Has an exemption been granted?
Does waste meet applicable treatment standards?
Reference Standards: 40 CFR 261.33; 268.42

Part II

1. MATERIAL CHARACTERIZATION (Optional)
a. Color CLEAR
b. Density
c. BTU
d. Total Solids
e. Ash Content
f. Number of layers ONE

2. RCRA CHARACTERISTICS

a. Physical State	solid	X liquid	semi-solid	
	gas	other:		
b. Treatment	wastewater X	non-wastewater		

c. Ignitable	YES	X NO	d. Reactive	YES	X NO
Flashpoint	>60 deg C		Water Reactive		
High TOC (>10%)			Cyanide Reactive		
Low TOC (<10%)			Sulfur Reactive		
e. Corrosive	YES	X NO	f. TCLP	YES	X NO
pH:	7.6		for:		
Corrodes:					

3. CHEMICAL COMPOSITION (ppm or mg/L)

a. Copper		f. Phenolics	
b. Nickel		g. Total Halogens	
c. Zinc		h. Volatile Organics	
d. Chromium VI		i. PCBs	
e. Other: TPH 2.3 ppm			

NOTE EXPLOSIVES, SHOCK-SENSITIVE, PYROPHORIC, RADIOACTIVE, AND ETIOLOGICAL WASTE, NORMALLY ARE NOT ACCEPTED BY DRMO

4. MATERIAL COMPOSITION

Component	Concentration	Range %
LIQUID		100%

5. Shipping Information
a. DOT Hazardous Material: YES X NO
b. Proper Shipping Name: N/A
c. Hazard Class:
d. Additional Description:
e. Method of Shipment: Bulk X Drum Other:
f. CERCLA Reportable Quantitiy: NO
g. Emergency Response Guide, DOT Pub. 5800.4 Page No. Ed. (yr)
h. Special Handling Information:
NONE REQUIRED

6. GENERATOR CERTIFICATION
Basis of Information:

Lab Analysis YES	(Attach Results)
User Knowledge	(Attach supporting documents & explain how and why documents comply with RCRA requirements)

I, SUSAN GANT, hereby certify that all information submitted in this and all attached documents is to the best of my knowledge, an accurate representation of the waste turned in to DRMO. All known or suspected hazards have been disclosed.

Generator Representative: for: [signature] **Date:** 15 Jan 97
Title: Project Technical Manager, USACE

NON Reg
NON RCRA
NON Dot

NON-HAZARDOUS WASTE PROFILE SHEET

Part I

A. General Information — **Waste Profile No.**

SWMU # 51 (OWS CONTENTS - WATER)

1. Generator Name
ANNON AFB

2. Facility Address
429 ECS/MA (X 4-2369)
126 SOUTH TORCH BLVD
CANNON AFB, NM

3. Generator USEPA ID: NM7572124454
4. Generator State ID: 99935
5. ZipCode: 88103

6. Technical Contact: BRIAN JORDAN
7. Title HTRW CHEMIST
Phone: 505-342-3472

B. 1. Name of waste: OWS CONTENTS - WATER
2. USEPA/or/State Waste Code(s): N/A
3. Process generating waste: Oil/Water Seperator at Bldg. No. 375
4. Projected Annual Volume/Units: N/A
5. Mode of collection: DRUM
6. Is this waste a Dioxin listed waste as defined in CFR 261.31 (e.g., F020, F021, F026, F027, or F028)?

YES	NO X

7. Is this waste restricted from land disposal (40CFR 268)?

YES	NO X
Has an exemption been granted? YES	NO
Does waste meet applicable treatment standards? YES	NO

Reference Standards: 40 CFR 261.33; 268.42

Part II

1. MATERIAL CHARACTERIZATION (Optional)
a. Color BLACK
b. Density
c. BTU
d. Total Solids
e. Ash Content
f. Number of layers ONE

2. RCRA CHARACTERISTICS

a. Physical State		solid	X liquid	semi-solid
	gas	other:		
b. Treatment		wastewater	X	non-wastewater

c. Ignitable	YES	X NO	d. Reactive	YES	X	NO
Flashpoint	>60	deg C	Water Reactive			
High TOC (>10%)			Cyanide Reactive			
Low TOC (<10%)			Sulfur Reactive			
e. Corrosive	YES	X NO	f. TCLP	YES	X	NO
pH:	7.8		for:			
Corrodes:						

3. CHEMICAL COMPOSITION (ppm or mg/L)

a. Copper		f. Phenolics	
b. Nickel		g. Total Halogens	
c. Lead	0.6 ppm	h. Volatile Organics	
d. Chromium VI		i. PCBs	

e. Other: TPH 218000 ppm

NOTE: EXPLOSIVES, SHOCK-SENSITIVE, PYROPHORIC, RADIOACTIVE, AND ETIOLOGICAL WASTE, NORMALLY ARE NOT ACCEPTED BY DRMO.

4. MATERIAL COMPOSITION

Component	Concentration	Range %
LIQUID		100%

5. Shipping Information
a. **DOT Hazardous Material:** YES X NO
b. Proper Shipping Name: N/A
c. **Hazard Class:**
d. **Additional Description:**
e. **Method of Shipment:** Bulk X Drum Other:
f. **CERCLA Reportable Quantitiy:** NO
g. **Emergency Response Guide,**

DOT Pub. 5800.4	Page No.	Ed. (yr)

h. **Special Handling Information:**
NONE REQUIRED

6. GENERATOR CERTIFICATION
Basis of Information:

Lab Analysis YES	(Attach Results)
User Knowledge	(Attach supporting documents & explain how and why documents comply with RCRA requirements)

I, SUSAN GANT, hereby certify that all information submitted in this and all attached documents is to the best of my knowledge, an accurate representation of the waste turned in to DRMO. All known or suspected hazards have been disclosed.

Generator Representative: [signature] **Date:** 15 Jan 97
Title: Project Technical Manager, USACE

CLOVIS, NEW MEXICO № 109732

Project No. Cheyenne Bld.
ID NO. CHFB 2
GROSS 33860 LB
W TARE 21000 LB
NET 12860 LB
DATE 11/18/96 TIME 9:21 AM

6.43

ID NO. 2
WT. IN 21000 LB
DATE 11/18/96 TIME 9:03 AM

Rec. By .....

Date..... Gross Lbs.....
Truck No..... Tare.....
Net Lbs. (OK)
Inventory No. 100
Material Desc. 1/2" PMBR
From: SP
To: MAX FRAZIER
Weigher S Dumper Leota

White - Purchasers Copy Yellow - KB&S

STATEMENT

Max Frazier Backhoe Service

Phone 763-3807
437 Sandy Lane Clovis, New Mexico 88101

Date 11-19 19 96

Cheyenne Builders
P.O. Box 1704
Clovis, N.M. 88101

Job Location	Job Description	Rate	Amount	
CHFB -	Asphalt patch 4 oil separator holes	656.1 SF / 3.00	1968	30
		TOTAL		

K. BARNETT & SONS INC.
CLOVIS, NEW MEXICO № 109740

Project No. Cheyenne
ID NO. CHFB 2
GROSS 29560 LB
W TARE 20980 LB
NET 8580 LB
DATE 11/18/96 TIME 2:01 PM

4.29

ID NO. 2
IN 20980 LB
DATE 11/18/96 TIME 1:56 PM

Rec. By .....

Date..... Gross Lbs.....
Truck No..... Tare.....
Net Lbs. (OK)
Inventory No. 100
Material Desc. 1/2" PMBR
From: SP
To: MAX FRAZIER
Weigher S Dumper Leota

White - Purchasers Copy Yellow - KB&S Pink - Driver Copy Gold - Scale Copy

47136

MISCELLANEOUS- Chg 5.00

PEAVEY COMPANY
505 East 1st Street
Clovis, N.M. 88101

Date 1-2-97 ☐ IN ☐ OUT

Name L. C. I. 2 / Cheyenne
Purpose Concrete disposal / SWMU 9

Gross
34960 lb 1-02-9712:12PM
Tare
Net
17400 lb 1-02-9712:41PM
17560

Remarks DACA47-95-D-0035 Cannon AFB 88103 ZMS CQC

☐ ON
☐ OFF

Weigher [illegible] Driver Randy Bryant

47100

PEAVEY COMPANY
505 East 1st Street
Clovis, N.M. 88101

Date 1-2-97 ☐ IN ☐ OUT

Name L. C. I. 2 / Cheyenne
Purpose Concrete disposal / SWMU 9

Gross
35640 lb 1-02-97 3:Tare
Tare
17080 lb 1-03-9712:35PM
Net
18560

Remarks DACA47-95-D-0035 Cannon AFB 88103 ZMS CQC

☐ ON
☐ OFF

Weigher [illegible] Driver Randy Bryant

17,560
18,560
.420
50,540 Total Lb.

50,540 lb. ÷ 2000

25.27 tons

47137

MISCELLANEOUS- Chg 5.00

PEAVEY COMPANY
505 East 1st Street
Clovis, N.M. 88101

Date 1-2-97 ☐ IN ☐ OUT

Name L. C. I. 2 / Cheyenne
Purpose Concrete disposal / SWMU 9

Gross
31600 lb 1-02-97 1:46PM
Tare
Net
17180 lb 1-02-97 2:12PM
14420

Remarks DACA47-95-D-0035 Cannon AFB 88103 ZMS CQC

☐ ON
☐ OFF

Weigher [illegible] Driver Randy Bryant

Sandy Marley, Inc.
P.O. Box 1658 Roswell, NM 88202
Phone 505-625-9206 Fax 505-625-9706

Cannon Air Force Base
111 Engineers Way
Cannon AFB, NM 88103

5/23/97

Detailed Report of material received between 4-30-97 and 5-1-97

EXEMPT UST

Origin: SWMU 94

Date:	Ticket No:	Discripition:	Transporter:	Cell:	Yards
4/30/97	046	UST SOILS	Stephens Const.	1	23
5/1/97	047	UST SOILS	Stephens Const.	1	24
			SWMU 94 Total Yards.		47
			EXEMPT UST Total Yards.		47
Cannon Air Force Base Total Yards.					47

N.M.E.D. – DP-1041

Gandy Marley, Inc.

P.O. BOX 1658 • ROSWELL, NM 88202

LOAD INSPECTION FORM № 046

Date of Receipt: 4-30-97 Time of Receipt 9 AM/PM Cell Placement: #1

Quantity 23 T/CY: cy Description: non RCRA/non dot regulated waste Excavated material SWMU 94

Name/Address of Generator: Cannon AFB 27th CE/CEUP 111 Engineers Way Cannon AFB nm 88103 5136

Origin of Materials (if different) SWMU 94

Transporter Name: Stephens Const. EPA SEC ID No. NM0144412

Name of Laboratory Performing Sample Analysis Assaigai Analytical Labs

TCLP (EPA Method 1311) X BTEX X MTBE ____ TPH Diesel 2300 Non-Hazardous X Exempt X

Verification of No Free Liquids X Paint Filter Liquids Test Performed NA

Verification of Property Completed Manifest Y Generator Manifest Number 97002

As a condition to Gandy Marley, Inc.'s acceptance of the materials shipped as represented on this Load Inspection Form, Generator represents and warrants that the waste material shipped herewith is exempt from the Resource Conservation and Recovery Act of 1976, as amended from time to time, 40 U.S.C. Section 6901, et seq., The New Mexico Health and Safety Code, section 361.001, et seq., and regulations related thereto, OR has been characterized as non-hazardous material by virtue of appropriate laboratory analysis done in accordance with EPA-approved testing methods.

Further, as a condition to Gandy Marley, Inc.'s acceptance of the materials shipped as represented on this Load Inspection Form, Transporter represents and warrants that only the material delivered by Generator to Transporter is now delivered by Transporter to Gandy Marley, Inc.'s facility for disposal.

THIS WILL CERTIFY that the above Transporter loaded the material as represented on this Load Inspection Form at the above described location, and that it was tendered by the above described Generator. THIS WILL CERTIFY that no additional materials were added to this load, and that the material was delivered without incident.

Transporter: J.D. Martin (Print Name) J.D. Martin (Signature)

GMI Employee: Larry Gandy (Print Name) Larry Gandy (Signature)

N.M.E.D. – DP-1041

Gandy Marley, Inc.

P.O. BOX 1658 • ROSWELL, NM 88202

LOAD INSPECTION FORM № 047

Date of Receipt: 5-1-97 Time of Receipt 8 30 AM PM Cell Placement: #1

Quantity 24 T/CY cy Description: non rcra/non dot regulated waste excavated material SWMU 94

Name/Address of Generator: Common AFB 27th EE/CEUP 111 Engineers way Common AFB 88103-5136

Origin of Materials (if different) SWMU 94

Transporter Name: Stephens Const. EPA ~~SCC~~ ID No. nm 0144 612

Name of Laboratory Performing Sample Analysis Assaigai Analytic Labs

TCLP (EPA Method 1311) X BTEX X MTBE TPH 2300 Non-Hazardous X Exempt X

Verification of No Free Liquids X Paint Filter Liquids Test Performed Y

Verification of Property Completed Manifest X Generator Manifest Number 97003

As a condition to Gandy Marley, Inc.'s acceptance of the materials shipped as represented on this Load Inspection Form, Generator represents and warrants that the waste material shipped herewith is exempt from the Resource Conservation and Recovery Act of 1976, as amended from time to time, 40 U.S.C. Section 6901, et seq., The New Mexico Health and Safety Code, section 361.001, et seq., and regulations related thereto, OR has been characterized as non-hazardous material by virtue of appropriate laboratory analysis done in accordance with EPA-approved testing methods.

Further, as a condition to Gandy Marley, Inc.'s acceptance of the materials shipped as represented on this Load Inspection Form, Transporter represents and warrants that only the material delivered by Generator to Transporter is now delivered by Transporter to Gandy Marley, Inc.'s facility for disposal.

THIS WILL CERTIFY that the above Transporter loaded the material as represented on this Load Inspection Form at the above described location, and that it was tendered by the above described Generator. THIS WILL CERTIFY that no additional materials were added to this load, and that the material was delivered without incident.

Transporter: RANDY BRYANT (Print Name) Randy Bryant (Signature)

GMI Employee: Larry Gandy (Print Name) Larry Gandy (Signature)

APPENDIX III

Field Sampling Results

CHEYENNE BUILDING CONTRACTORS, INC.
QUALITY CONTROL FIELD NOTES
UNIT REMOVAL AT CANNON AFB, NM
CONTRACT NO.: DACA47-95-D-0035

DATE: 8-21-96
TIME: 9:00 Am
WEATHER: Mild
TEMP.: 75°

UNIT INFORMATION

Unit Owner: U.S. Army Corp of Engineers Phone No.: 505-784-4351

Address: P.O. Box 1580 Albuquerque, NM 87103

Bldg. No.: 5077A SWMU No.: 61

Date Installed: unknown Date Last Used: unknown

Units Association with Facility: Sand trap for concrete wash rack

Unit Width: 3' Unit Length: 6'-6" Unit Depth: 30"

Unit Contents: Solid non-haz waste Gallons Removed: 110

Type of Ground Cover: Topsoil + Gravel

Petroleum Odors: YES ☐ NO ☒

Visual Characterization of Soil: clean

Evidence of a Spill: YES ☐ NO ☒

Other Potential Sources of Contamination: leaking pipes

Underground Storage Tanks

UST BUREAU/EID
1190 St. Francis Drive
Santa Fe, NM 87503

I.D. Number | STATE USE ONLY

Date Received

GENERAL INFORMATION

Notification is required by Federal law for all underground tanks that have been used to store regulated substances since January 1, 1974, that are in the ground as of May 8, 1986, or that are brought into use after May 8, 1986. The information requested is required by Section 9002 of the Resource Conservation and Recovery Act (RCRA), as amended.

The primary purpose of this notification program is to locate and evaluate underground tanks that store or have stored petroleum or hazardous substances. It is expected that the information you provide will be based on reasonably available records, or, in the absence of such records, your knowledge, belief, or recollection.

Who Must Notify? Section 9002 of RCRA, as amended, requires that, unless exempted, owners of underground tanks that store regulated substances must notify designated State or local agencies of the existence of their tanks. Owner means—

(a) in the case of an underground storage tank in use on November 8, 1984, or brought into use after that date, any person who owns an underground storage tank used for the storage, use, or dispensing of regulated substances, and

(b) in the case of any underground storage tank in use before November 8, 1984, but no longer in use on that date, any person who owned such tank immediately before the discontinuation of its use.

What Tanks Are Included? Underground storage tank is defined as any one or combination of tanks that (1) is used to contain an accumulation of "regulated substances," and (2) whose volume (including connected underground piping) is 10% or more beneath the ground. Some examples are underground tanks storing: 1. gasoline, used oil, or diesel fuel, and 2. industrial solvents, pesticides, herbicides or fumigants.

What Tanks Are Excluded? Tanks removed from the ground are not subject to notification. Other tanks excluded from notification are:

1. farm or residential tanks of 1,100 gallons or less capacity used for storing motor fuel for noncommercial purposes;
2. tanks used for storing heating oil for consumptive use on the premises where stored;
3. septic tanks;
4. pipeline facilities (including gathering lines) regulated under the Natural Gas Pipeline Safety Act of 1968, or the Hazardous Liquid Pipeline Safety Act of 1979, or which is an intrastate pipeline facility regulated under State laws;
5. surface impoundments, pits, ponds, or lagoons;
6. storm water or wastewater collection systems;
7. flow-through process tanks;
8. liquid traps or associated gathering lines directly related to oil or gas production and gathering operations;
9. storage tanks situated in an underground area (such as a basement, cellar, mine working, drift, shaft, or tunnel) if the storage tank is situated upon or above the surface of the floor.

What Substances Are Covered? The notification requirements apply to underground storage tanks that contain regulated substances. This includes any substance defined as hazardous in section 101 (14) of the Comprehensive Environmental Response, Compensation and Liability Act of 1980 (CERCLA), with the exception of those substances regulated as hazardous waste under Subtitle C of RCRA. It also includes petroleum, e.g., crude oil or any fraction thereof which is liquid at standard conditions of temperature and pressure (60 degrees Fahrenheit and 14.7 pounds per square inch absolute).

Where To Notify? Completed notification forms should be sent to the address given at the top of this page.

When To Notify? 1. Owners of underground storage tanks in use or that have been taken out of operation after January 1, 1974, but still in the ground, must notify by May 8, 1986. 2. Owners who bring underground storage tanks into use after May 8, 1986, must notify within 30 days of bringing the tanks into use.

Penalties: Any owner who knowingly fails to notify or submits false information shall be subject to a civil penalty not to exceed $10,000 for each tank for which notification is not given or for which false information is submitted.

INSTRUCTIONS

Please type or print in ink all items except "signature" in Section V. This form must by completed for each location containing underground storage tanks. If more than 5 tanks are owned at this location, photocopy the reverse side, and staple continuation sheets to this form.

Indicate number of continuation sheets attached: [ ]

I. OWNERSHIP OF TANK(S)

Owner Name (Corporation, Individual, Public Agency, or Other Entity): CANNON AFB

Street Address: 111 Engineers Way

County: Curry

City: CANNON AFB | State: NM | ZIP Code: 88103

Area Code: (505) | Phone Number: 784-4351

Type of Owner (Mark all that apply [X]):

- [ ] Current
- [ ] Former
- [ ] State or Local Govt
- [X] Federal Govt (GSA facility I.D. no. SWMU 61)
- [ ] Private or Corporate
- [ ] Ownership uncertain

II. LOCATION OF TANK(S)

(If same as Section I, mark box here [X])

Facility Name or Company Site Identifier, as applicable:

Street Address or State Road, as applicable:

County:

City (nearest): | State: | ZIP Code:

Indicate number of tanks at this location: 3

Mark box here if tank(s) are located on land within an Indian reservation or on other Indian trust lands: [ ]

III. CONTACT PERSON AT TANK LOCATION

Name (If same as Section I, mark box here [ ]): Troy Morales

Job Title: C&R Cheyenne Bldg. Cont. Inc

Area Code: 505 | Phone Number: 769-9216

IV. TYPE OF NOTIFICATION

[ ] Mark box here only if this is an amended or subsequent notification for this location.

V. CERTIFICATION (Read and sign after completing Section VI.)

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete.

Name and official title of owner or owner's authorized representative | Signature | Date Signed

CONTINUE ON REVERSE SIDE

ANK CLOSURE WORKSHEET
(COMPLETE AFTER CLOSURE)

Tank Owner Cannon AFB NM 88103 Phone 784-4351
Mailing Address 111 Engineers Way CANNON AFB NM 88103-5136
Tank Address Bldg. 5077
Contractor Name Cheyenne Bldg. Cont. INC Phone 769-9216
Address 117 Pine # Clovis NM 88101
Contractor Name _____ Phone _____
Address _____

Tank Closure Date 8-21-96 # of Tanks Closed 1

****

I. Tank Closure Initial Procedures (check measures complied with):
- ✓ Obtain recommended safety equipment for all personnel
- ✓ Contact Fire Marshall or other fire officials
- ✓ Bond or ground equipment
- ✓ Drain product from piping and tank
- ✓ Disconnect, then cap or remove piping
- ✓ Remove all residual product from tank
- ✓ Excavate to tank top
- ✓ Remove all tank fixtures
- ✓ Properly purge or inert tank of all flammable vapors using approved method
- ✓ Continually monitor for explosive vapors while tank is being removed

II. Tank Removal
- ✓ Create vent hole
- ✓ Excavate tank using all safety precautions
- ✓ Clean and inspect tank
- ✓ Check excavation for evidence of leaks and notify EID and other proper authorities if leak is found
- ✓ Check vapor levels in tank before transporting
- ✓ Dispose of tank in approved manner

Tank disposal location Landfill Clovis NM 88101
City State

How did you assess site for leakage? Field + Laboratory analysis
Closure report kept at 111 Engineers Way
NOTE: Immediately report any evidence of leakage to EID at 827-0188

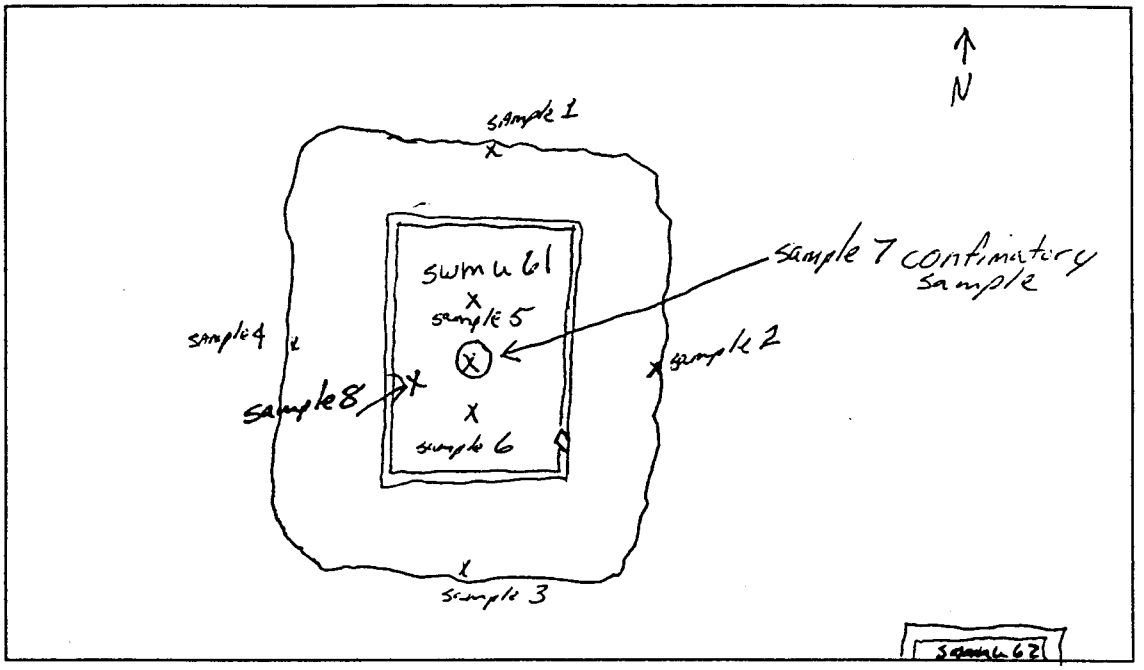
I hereby state that the above information is correct

[signature] CQC Cheyenne
Signature of owner or contractor performing work

****

FOR EID USE ONLY
Notification Received _____ Approved By _____
Inspection Date _____ Inspector _____

SKETCH: SWMU 61



Sample 1 thru 6: Field screening samples

Sample 7: confimatory sample; 7A, 7B, 7C, 7D

Sample 6 : Field screening / Lab analysis correlation sample (duplicate split)

Sample 8: Field screening / excavated an additional 2'

Sample 9: Excavated material (stockpile)

CHEYENNE
BUILDING CONTRACTORS INC.

P.O. BOX 418
OVIS, NEW MEXICO 88102-0418
J5) 769-9019 • FAX (505) 769-2588

GB98
LIC. NO. 30759

CERTIFICATE OF VAPOR TESTING

DATE 8-21-96

TANK OWNER Cannon AFB PHONE 505-784-4351

ADDRESS SWMU 61

CONTRACTOR REMOVING TANK Cheyenne Bldg. Cont INC.

ADDRESS 1717 S Prince St Clovis NM PHONE 769-9216

CHEYENNE BUILDERS IS CERTIFIED CONTRACTOR IN VAPOR TESTING.

I Troy Moralez HEREBY CERTIFY THAT ~~TANK~~ unit AT Bldg. 5077 IS FREE FROM COMBUSTIBLE MATERIAL.

TROY MORALEZ

MIKE LANDGRAF

DATA SHEET
ENVIROGARD PETROLEUM FUELS (BTEX) IN SOIL TEST KIT

	OD VALUE
Negative Control	
10 ppm BTEX Calibrator	1.34
50 ppm BTEX Calibrator	1.05
300 ppm BTEX Calibrator	0.50

SAMPLE ID	OD VALUE	INTERPRETATION
CA/9-96-0923-1102	1.24	>10 PPM <50 PPM BTEX

Data Sheet for PETRO RISC® SamplePro Test

Immunoassay method 4030

Operator: Troy Morale z Date: 8-21-96 Location: SWMU 61

Sample ID	Low Test Level ΔOD	Low Test Level OD sample	Low Test Level Interpretation	High Test Level ΔOD	High Test Level OD sample	High Test Level Interpretation	Comments
TPH	Standards	15 ppm		Standards	100 ppm		
CA61/1-96-0821-1315	-0.20	0.01	<15 PPM	-0.11	0.28	<100 PPM	
CA61/2-96-0821-1315	"	-0.0	>15 PPM	"	0.10	<100 PPM	
CA61/3-96-0821-1315	"	-0.13	>15 PPM	"	0.40	<100 PPM	
CA61/4-96-0821-1315	"	-0.35	>15 PPM	"	0.09	<100 PPM	
CA61/5-96-0821-1315	-0.16	0.23	<15 PPM	-0.20	0.02	<100 PPM	
CA61/6-96-0821-1315	-0.16	0.20	<15 PPM	-0.20	-0.01	>100 PPM	Duplicate Split (horizontal Extent)
CA61/6-96-0821-1315	-0.26	-0.14	>15 PPM	-0.15	-0.05	>100 PPM	Re-test per Monique
CA61/8-96-0826-0920	-0.04	0.19	<15 PPM	-0.11	0.86	<100 PPM	excavated 2' + re-tested
CA61/9-96-0923-1102	-0.27	0.68	<15 PPM	-0.13	0.29	<100 PPM	excavated material stockpile

SAMPLE INFORMATION

Sample ID No.: CA61/1-96-0821-1315, CA61/2-96-0821-1315, CA61/3-96-0821-1315
CA61/4-96-0821-1315

Sample Depth: 2 feet Sample Matrix: Soil

Sample Location: excavation sides

Sample Purpose: Field Screening

Number of Samples Taken: 4 Preservatives Used: ICE

Sample Method: Headspace, Immnoassay TPH

Headspace Analysis: CA61/1=0.0 PPM, CA61/2=0.6 PPM, CA61/3=0.0PPM, CA61/4=0.0PPM

Contaminated Action Level: >100 PPM TPH + >50 PPM BTEX

SAMPLE INFORMATION

Sample ID No.: CA61/5-96-0821-1315 + CA61/6-96-0821-1315

Sample Depth: 54" Sample Matrix: Soil

Sample Location: Center of excavation below unit

Sample Purpose: Field Screening

Number of Samples Taken: 2 Preservatives Used: ICE

Sample Method: Headspace, Immnoassay TPH

Headspace Analysis: CA61/5 = 0.3 PPM + CA61/6 = 0.0 PPM

Contaminated Action Level: >100 PPM TPH + >50 PPM BTEX

SAMPLE INFORMATION

Sample ID No.: CA61/8-96-0826-0920

Sample Depth: 78" Sample Matrix: Soil

Sample Location: 4 feet below unit

Sample Purpose: Field Screening

Number of Samples Taken: 1 Preservatives Used: ICE

Sample Method: Headspace 0.0ppm, Immunoassay Attached

Headspace Analysis: 0.0 PPM

Contaminated Action Level: > 100 PPM TPH + > 50 PPM BTEX

SAMPLE INFORMATION

Sample ID No.: CA61/9-96-0923-1102

Sample Depth: Composite Sample Matrix: Soil

Sample Location: excavated material

Sample Purpose: Confirmatory for disposal

Number of Samples Taken: 2 Preservatives Used: ICE

Sample Method: 6010 + 7470 using 1311 extraction, Headspace, Immunoassay

Headspace Analysis: 0.0 PPM VOC other attached

Contaminated Action Level: >100 PPM TPH + > 50 PPM BTEX

SAMPLE INFORMATION

Sample ID No.: [redacted]96-0821-1315

Sample Depth: 54" Sample Matrix: Soil

Sample Location: center of excavation

Sample Purpose: Closure (confirmatory sample)

Number of Samples Taken: 4 Preservatives Used: ICE

Sample Method: 8015, 8260, 8270, 6010 + 7470 using 1311

Headspace Analysis: NT

Contaminated Action Level:

SAMPLE INFORMATION

Sample ID No.: [redacted]-96-0821-1316

Sample Depth: 54" Sample Matrix: Soil

Sample Location: Center of excavation

Sample Purpose: Field screening/lab analysis Correlation

Number of Samples Taken: 1 Preservatives Used: ICE

Sample Method: TRPH method 8015 + BTEX method 8020

Headspace Analysis: NT

Contaminated Action Level: >100 PPM TPH, >50 PPM BTEX

EXCAVATION CHECK LIST

Company: Cheyenne Bldg. int INC.	Date: 8-21-96
Site Location/Description: Bldg. 5077, SWMU 61	Time: 8:40 ☒ AM ☐ PM
Inspected by: Troy Moralez	Project Number: DAAA47-95-D-0035

RUCTIONS: Read the ITEM NUMBER and DESCRIPTION to determine the current conditions of this excavation site. Mark an (X) in the YES column if the description is present and has been satisfied. Mark an (X) in the NO column if the item has not been completed. Mark a line (–) across the YES and No columns if the ITEM does not apply. Use the NOTES section to list the ITEM NUMBER. Write any comments that apply to the ITEM NUMBER.

Item No.	DESCRIPTION	YES	NO	Item No.	DESCRIPTION	YES	NO
1	The utility company has been notified of excavation work schedule.	✓		19	Employees working below other employees in trench are protected from hazards.	NA	
2	Location of underground utility lines are identified.	✓		20	The trench is free of standing water.	✓	
3	Hazardous objects have been removed from excavation area or blocked securely.	✓		21	The proper water removal equipment is operating under guidance of competent person.	✓	
4	Soil type is classified.	✓		22	Diversion ditches or dikes are in place to prevent surface water from entering trench.	✓	
5	Sloping and Benching system is designed per OSHA requirements.	✓		23	The trench is inspected by competent person following any amount of rain.	✓	
6	Timber shoring system is designed per OSHA requirements. NA		✓	24	Employees are wearing proper safety equipment.	✓	
7	Aluminum Hydraulic shoring system is designed per OSHA requirements. NA		✓	25	Test air quality in trench if a hazardous atmosphere is suspected.	✓	
8	Shielding system is designed per OSHA requirements. NA		✓	26	A ventilation or respiratory protection is in use.	✓	
9	Shields are free from damage or defects. NA		✓	27	Protective support systems are installed from the top down.	✓	
10	Employees are protected from cave-ins when entering and exiting the shield. NA		✓	28	Protective support systems are dismantled from the bottom up.	✓	
11	When a combination of sloping and shielding is used, the shield must extend 18 inches above the bottom slope of the excavation. NA			29	Excavation is backfilled as the protective system is dismantled.	✓	
12	A ladder is provided and secured in trench four or more feet deep; top of ladder extending at least 36 inches above edge of trench.	✓		30	Heavy equipment is mounted on wooden mats to distribute weight.	✓	
13	A ladder is within 25 feet of all employees working in trench	✓		31	Damaged materials or equipment are removed from service.	✓	
14	Excavated material is stored at least two feet from the edge of the excavation.	✓		32	An emergency response program is in place.	✓	
15	Employees are protected from loose material which could fall into trench.	✓		33	Life support equipment is in working order.	✓	
16	A competent person inspects the trench prior to the start of the shift.	✓		34	Note other conditions. Excavation was monitored for combustible gas and total VOCS, Oxygen 19.5%		
17	The location of trench is marked by banners, barricades or other signals.	✓		35			
18	Bridges or walkways over excavations are equipped with guardrails and toeboards. NA			36			

Notes:

© 1993 J.J. KELLER & ASSOCIATES, INC. Neenah, WI 54957-0368
To Reorder Call: 1-800-327-6868

M&O

082

eet
X 79401

ION STATION CITY & STATE | ZIP

Wilmington | NC

(Recipien e)

Personal Analytical Lab

Exact Street Address Cannot deliver to P.O. Box or Zip Code

ATTN: Dan Moore

City Tulsa | State OK | Zip

Recipient's Package Express Account No.

Recipient's Phone Number (Very Important) 343-8864

Shipper's Package Express Account No.

Shipper's Phone Number (Very important) ( ) -

Shipper's Name) L-C-1-2 DBA Cheyenne Pkg (Can Tech)

Exact Street Address Cannot deliver to P.O. Box or Zip Code

PO Box 418

City Clovis | State NM

SHIPPER'S RECEIPT - 1

MO	DAY	YEAR	TIME	AM	PM	FORWARDING AGENCY NO.	FORWARDING AGENT'S INITIALS	PICK-UP AGENT I.D.	DELIVERY AGENT I.D.	DESTINATION AGENCY NO.
8	21	96	8				SA			

BUSBILL NUMBER
DO NOT WRITE IN THIS AREA

901 495 054 9

4 INTERLINE INFORMATION

Carrier Code	City	Schedule #
Carrier Code	City	Schedule #
Carrier Code	City	Schedule #

5 SERVICE REQUIRED: NBO | SAME DAY | OVER-NIGHT | STD

PAYMENT 6: BILL PKG EXPRESS ACCOUNT | CASH | BILL 3RD PARTY | BILL CRDT CARD

7 DIMENSIONAL WEIGHT COMPUTATION: NO. OF PIECES 1 | ACTUAL WEIGHT LBS. 5 | DIMENSIONAL WGT. LBS. = ÷ 200 = | DECLARED VALUE $

CONTENTS: Box | CARTON DESCRIPTION

	DEL. REQ'D	RATE ZONE	C.O.D

PREPAID	CHARGES	COLLECT
$.	EXPRESS	$ 87
.	REFWD	.
.	VALUE	.
.	COLLECT / C.O.D. FEE	9
.	SUB TOTAL	95
.	PICK-UP	.
.	DELIVERY	.
.	TAX	4
	C.O.D. AMOUNT	.
$.	TOTAL	$ 103

(NOT NEGOTIABLE) SUBJECT TO TARIFF REGULATIONS LIABILITY: This Carrier will not pay loss or damage claims over $100 per shipment or $ package, whichever is greater, unless a greater value is declared and charges for such greater value paid. Maximum valuation on any one shipment is by tariff. (See Tariff for Intrastate exceptions). In no event shall the Carrier be liable for consequential or incidental damage for loss, damage or delay.

ASSAIGAI ANALYTICAL LABORATORIES

Chain of Custody Record

7300 JEFFERSON, N.E.
ALBUQUERQUE, NEW MEXICO 87109
(505) 345-8964

3332 WEDGEWOOD
EL PASO, TEXAS 79925
(915) 593-6000

1910 N. BIG SPRING
MIDLAND, TEXAS 79705
(915) 570-1116

MELQUIADES ALANIS
6411 LOCAL UNO
CIUDAD JUAREZ, CHIHUAHUA MEXICO 32320

Lab Job no.: _____ Date 8-21-16

Page 1 of 1

Client: Cheyenne / LCT-2, INC

Project Manager / Contact: Mike Lanhoff

Address: 1212 S Prince St / CLOVIS NM

Telephone No.: 505-762-4910

City / State / Zip: CLOVIS NM 88101

Fax No.: 505-769-0780

Project Name / Number: [illegible]

Samplers: (Signature) [illegible]

Contract / Purchase Order / Quote: _____

Analysis Required

Lab Sample Number	Field Sample Number / Location	Date	Time	Sample Type	Type / Size of Container	Preservation Temp.	Preservation Chemical	No. of Containers	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	Remarks
	[redacted]-C821-1315	8/21/16	[illegible]	soil	[illegible]	[illegible]		4	1	1	1	1						[illegible]
									1	1	1	1						

FOR LAB USE ONLY

Relinquished by:	Date / Time	Received by:	Relinquished by:	Date / Time	Received by:
Signature: [illegible]	8:21	Signature: [illegible]	Signature:		Signature:
Printed: Tony Murillo		Printed: SAC Gonzales	Printed:		Printed:
Company: Cheyenne	8:10pm	Company: Tech C	Company:		Company:
Reason: shipment		Reason: Transport To Alb	Reason:		Reason:

Method of Shipment: Bus

Shipment No.: _____

Special Instructions: _____

Comments: _____

After analysis, samples are to be:

- [x] Disposed of (additional fee)
- [ ] Stored (30 days max)
- [ ] Stored over 30 days (additional fee)
- [ ] Returned to customer

FIELD

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 M 7 5 7 2 1 2 4 4 5 4

Manifest Document No. S W 0 6 2

2. Page 1 of 1

Generator's Name and Mailing Address

27 CE/CEVP (Attn: Vera Wood) 111 Engineers Way
Cannon AFB NM 88103-5136

4. Generator's Phone (505 784-6022 or X4820)

5. Transporter 1 Company Name: ENVIROSOLVE SOUTHWEST, INC

6. US EPA ID Number: NM0000590210

7. Transporter 2 Company Name

8. US EPA ID Number

9. Designated Facility Name and Site Address: ENVIROSOLVE SOUTHWEST, INC. 5318 WILLIAMS SE ALBUQUERQUE, NM 87105

10. US EPA ID Number: NM0000590210

A. Transporter's Phone

B. Transporter's Phone

C. Facility's Phone: 505-873-0464

11. Waste Shipping Name and Description	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
a. NON RCRA, NON DOT WASTE LIQUIDS (WASTE WATER)	63 004	DM	03325	P
b. NON-RCRA NON-DOT WASTE SOLIDS (NON HAZ SOLIDS)	61 002	DM	01700	P
c.				
d.				

Additional Descriptions for Materials Listed Above

11.A) 9155
11.B) 9155

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

11a oil water Separator #63
11b. oil water Separator ~~#62 (Solids)~~ #61

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: Vera A. Wood, GS-11 | Signature: Vera A. Wood | Month Day Year: 08 20 96

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: Tom Flores | Signature | Month Day Year: 08 20 96

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name | Signature | Month Day Year

19. Discrepancy Indication Space

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

Printed/Typed Name | Signature | Month Day Year

GENERATOR
TRANSPORTER
FAC

2-BLS-03

TRANSPORTER #2

Chain of Custody Record

ASSAIGAI ANALYTICAL LABORATORIES

7300 JEFFERSON, N.E.
ALBUQUERQUE, NEW MEXICO 87109
(505) 345-8964

3332 WEDGEWOOD
EL PASO, TEXAS 79925
(915) 593-6000

1910 N. BIG SPRING
MIDLAND, TEXAS 79705
(915) 570-1116

MELQUIADES ALANIS
6411 LOCAL UNO
CIUDAD JUAREZ, CHIHUAHUA MEXICO 32320

Lab job no.: _____ Date _____

Page _____ of _____

Client: Cheyenne / LCT-2, INC

Address: 1712 Sixth Street

City / State / Zip: Clovis NM 88101

Project Name / Number: Clovis Refinery / DACH97-95-D-0035

Contract / Purchase Order / Quote: Hurricane

Project Manager / Contact: Mike Lockard

Telephone No.: 505-763-1410

Fax No.: 505-762-0780

Samplers: (Signature)

Analysis Required: TPH 8015 MOD; VOC's 8260; THE KRIMPTEB 6010; SVOC's 8270; BTEX 8020

Field Sample Number / Location	Date	Time	Sample Type	Type / Size of Container	Preservation Temp.	Preservation Chemical	No. of Containers	TPH 8015 MOD	VOC's 8260	THE KRIMPTEB 6010	SVOC's 8270			BTEX 8020			Remarks
CA62/7-96-0822-1330	8/22/96	13:30	Soil	9oz Glass	ICE		4	X	X	X	X						CA62/7A thru CA62/7D
CA63/7-96-0822-1340	8/22/96	13:40	Soil	9oz Glass	ICE		4	X	X	X	X						CA63/7A thru CA63/7D
CA63/7 QC	8/22/96	13:40	Soil	9oz Glass	ICE		4	X	X	X	X						CA63/7QC thru CA63/7DQC
[illegible]/6-96-0821-1315	8/23/96	13:15	Soil	9oz Glass			1	X						X			correlation sample (Highest)
CA62/4-96-0822-1328	8/23/96	13:28	Soil	9oz Glass			1	X						X			correlation sample 10th of 10
CA62/2-96-0822-1328	8/23/96	13:28	Soil	9oz Glass			1	X						X			correlation sample (Highest)
CA63/5-96-0822-1340	8/23/96	13:40	Soil				1	X						X			correlation Sample (Highest)

Relinquished by:	Date	Received by:	Relinquished by:	Date	Received by:
Signature: [signature]	8/23/96	Signature: [signature]	Signature:		Signature:
Printed: Trocmarc Lt	Time 12:23	Printed:	Printed:	Time	Printed:
Company: Cheyenne		Company: TNTMO	Company:		Company:
Reason: Shipment		Reason:	Reason:		Reason:

Method of Shipment: _____

Shipment No. _____

Special Instructions: _____

Comments: _____

After analysis, samples are to be:

- ☐ Disposed of (additional fee)
- ☐ Stored (30 days max)
- ☐ Stored over 30 days (additional fee)
- ☐ Returned to customer

FIELD

ASSAIGAI ANALYTICAL LABORATORIES

Chain of Custody Record

7300 JEFFERSON, NE
ALBUQUERQUE, NEW MEXICO 87109
(505) 345-8964

3332 WEDGEWOOD
EL PASO, TEXAS 79925
(915) 593-6000

1910 N. BIG SPRING
MIDLAND, TEXAS 79705
(915) 570-1116

MELQUIADES ALANIS
6411 LOCAL UNO
CIUDAD JUAREZ, CHIHUAHUA MEXICO 32320

Lab job no.: _____ Date _____

Page _____ of _____

Client: Cheyenne / LCI-2

Address: 1712 S Prince St

City / State / Zip: CLOVIS NM 88101

Project Name / Number: DHA 47-95-U-0035

Contract / Purchase Order / Quote: DHA MOORE

Project Manager / Contact: Mike Lowery

Telephone No.: 505-763-1910

Fax No.: 505-769-0780

Samplers: (Signature)

Analysis Required

Field Sample Number / Location	Date	Time	Sample Type	Type / Size of Container	Preservation Temp.	Preservation Chemical	No. of Containers	TPH method 8015	VOC's method 8260	SVOC's method 8270	THC RCRA metals	Extractable organics 1311					Remarks
CA70/17-96-0916-1155	09/16/96	11:55	soil	1 oz, 3 oz glass		ICE	4	X	X	X	X						excavated material confirmatory samples
CA62/9-96-0916-1140	"	1140	soil	"		"	4	X	X	X	X						
CA66/5-96-0916-1150	"	1150	soil	"		"	4	X	X	X	X						
CA63/8-96-0916-1329	"	13:29	soil	"		"	4	X	X	X	X						
CA38/1-96-0916-1330	"	13:30	soil	"		"	4	X	X	X	X						

Relinquished by:	Date	Received by:	Relinquished by:	Date	Received by:
Signature:	9/16/96	Signature:	Signature:		Signature:
Printed: Troy McKalee	Time	Printed: S N Gonzales	Printed:	Time	Printed:
Company: Cheyenne / LCI-2	15:53	Company: TNMC	Company:		Company:
Reason: Shipment		Reason: Shipment	Reason:		Reason:

Method of Shipment: _____

Shipment No. _____

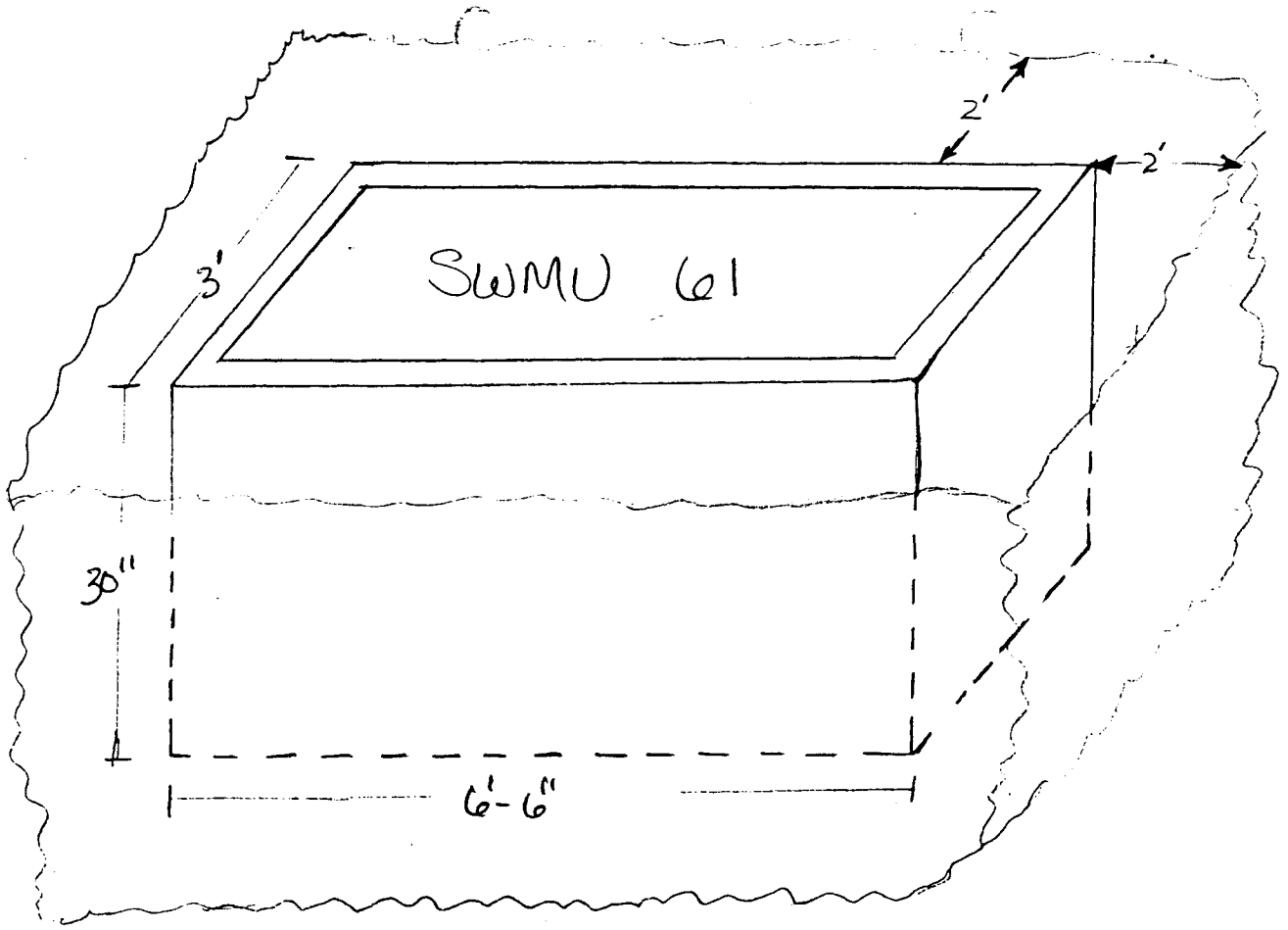
Special Instructions: _____

Comments: _____

After analysis, samples are to be:

- ☐ Disposed of (additional fee)
- ☐ Stored (30 days max)
- ☐ Stored over 30 days (additional fee)
- ☐ Returned to customer

FIELD FI



wall thickness : 4"

SWMU classified as: Non-Hazardous
Disposal facility for unit: Local Landfill

Tank Content: amount / disposal facility
Sand: ~~None~~ Non Haz / 110 gal / Envirosolve " Albq.
liquid: ~~Non-Haz~~ / None / ~~Envirosolve SW~~ Inc. Albq. NM
Sludge: ~~Non Haz~~ / None / ~~Envirosolve SW Inc Albq.~~ N.M.

Soil:

Soil Classified as: Non-Hazardous

Disposal facility: used as backfill for SWMU 112.

General Notes:

Tank appeared to be in good Condition. No crack or holes. No dark staining on the outside of the tank. After the tank was removed, the remaining walls had No dark staining. The area appeared to be clean.

CHEYENNE BUILDING CONTRACTORS, INC.
QUALITY CONTROL FIELD NOTES
UNIT REMOVAL AT CANNON AFB, NM
CONTRACT NO.: DACA47-95-D-0035

DATE: 8-22-96
TIME: 8:01 AM
WEATHER: mild
TEMP.: 74°

UNIT INFORMATION

Unit Owner: U.S. Army Corp of Engineers Phone No.: 505-784-4351

Address: P.O. Box 1580 Albuquerque, NM 87103

Bldg. No.: 5077B SWMU No.: 62

Date Installed: unknown Date Last Used: unknown

Units Association with Facility: sand trap for concrete wash rack

Unit Width: 3' Unit Length: 6'-6" Unit Depth: 30"

Unit Contents: RQ Hazardous Solid waste Gallons Removed: 200

Type of Ground Cover: topsoil & gravel

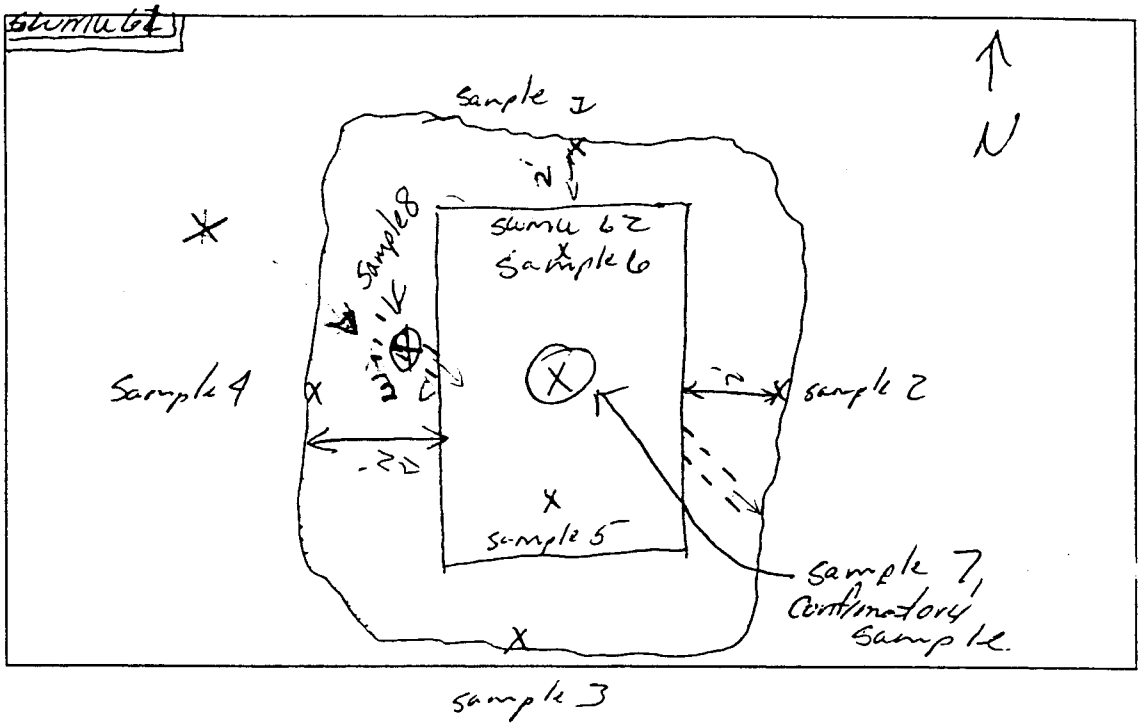
Petroleum Odors: YES ☒ NO ☐

Visual Characterization of Soil: areas of visual contamination

Evidence of a Spill: YES ☐ NO ☒

Other Potential Sources of Contamination: leaking pipes

SKETCH: 6R



Samples 1 thru 6 : Field Screening

Sample 7: Confirmatory Sample; 7A, 7B, 7C, 7D

Sample 2+4: Field Screening/Lab analysis correlation

Sample 8: Visual Contamination

Sample 9: Excavated material stockpile

ıK CLOSURE WORKSHEET
(COMPLETE AFTER CLOSURE)

Tank Owner Cannon AFB NM 88103 Phone 784-4351
Mailing Address 111 Engineers Way Cannon AFB 88103-5136
Tank Address Bldg. 5027 Swma 62
Contractor Name Cheyenne Phone 769-9216
Address 1712 S Prince ST Clovis NM 88101
Contractor Name _____ Phone _____
Address _____

Tank Closure Date 8-22-96 # of Tanks Closed 1

****

I. Tank Closure Initial Procedures (check measures complied with):
- ✓ Obtain recommended safety equipment for all personnel
- ✓ Contact Fire Marshall or other fire officials
- ✓ Bond or ground equipment
- ✓ Drain product from piping and tank
- ✓ Disconnect, then cap or remove piping
- ✓ Remove all residual product from tank
- ✓ Excavate to tank top
- ✓ Remove all tank fixtures
- ✓ Properly purge or inert tank of all flammable vapors using approved method
- ✓ Continually monitor for explosive vapors while tank is being removed

II. Tank Removal
- ✓ Create vent hole
- ✓ Excavate tank using all safety precautions
- ✓ Clean and inspect tank
- ✓ Check excavation for evidence of leaks and notify EID and other proper authorities if leak is found
- ✓ Check vapor levels in tank before transporting
- ✓ Dispose of tank in approved manner

Tank disposal location _____
City State

How did you assess site for leakage? Field & laboratory analysis
Closure report kept at 111 Engineers Way
NOTE: Immediately report any evidence of leakage to EID at 827-0188

I hereby state that the above information is correct

[signature] OOC Cheyenne
Signature of owner or contractor performing work

****

FOR EID USE ONLY
Notification Received _____ Approved By _____
Inspection Date _____ Inspector _____

UST BUREAU/EID
1190 St. Francis Drive
Santa Fe, NM 87503

Number | STATE USE ONLY

Date Received

GENERAL INFORMATION

Notification is required by Federal law for all underground tanks that have been used to store regulated substances since January 1, 1974, that are in the ground as of May 8, 1986, or that are brought into use after May 8, 1986. The information requested is required by Section 9002 of the Resource Conservation and Recovery Act (RCRA), as amended.

The primary purpose of this notification program is to locate and evaluate underground tanks that store or have stored petroleum or hazardous substances. It is expected that the information you provide will be based on reasonably available records, or, in the absence of such records, your knowledge, belief, or recollection.

Who Must Notify? Section 9002 of RCRA, as amended, requires that, unless exempted, owners of underground tanks that store regulated substances must notify designated State or local agencies of the existence of their tanks. Owner means—

(a) in the case of an underground storage tank in use on November 8, 1984, or brought into use after that date, any person who owns an underground storage tank used for the storage, use, or dispensing of regulated substances; and

(b) in the case of any underground storage tank in use before November 8, 1984, but no longer in use on that date, any person who owned such tank immediately before the discontinuation of its use.

What Tanks Are Included? Underground storage tank is defined as any one or combination of tanks that (1) is used to contain an accumulation of "regulated substances," and (2) whose volume (including connected underground piping) is 10% or more beneath the ground. Some examples are underground tanks storing: 1. gasoline, used oil, or diesel fuel, and 2. industrial solvents, pesticides, herbicides or fumigants.

What Tanks Are Excluded? Tanks removed from the ground are not subject to notification. Other tanks excluded from notification are:

1. farm or residential tanks of 1,100 gallons or less capacity used for storing motor fuel for noncommercial purposes;
2. tanks used for storing heating oil for consumptive use on the premises where stored;
3. septic tanks;
4. pipeline facilities (including gathering lines) regulated under the Natural Gas Pipeline Safety Act of 1968, or the Hazardous Liquid Pipeline Safety Act of 1979, or which is an intrastate pipeline facility regulated under State laws;
5. surface impoundments, pits, ponds, or lagoons;
6. storm water or wastewater collection systems;
7. flow-through process tanks;
8. liquid traps or associated gathering lines directly related to oil or gas production and gathering operations;
9. storage tanks situated in an underground area (such as a basement, cellar, mineworking, drift, shaft, or tunnel) if the storage tank is situated upon or above the surface of the floor.

What Substances Are Covered? The notification requirements apply to underground storage tanks that contain regulated substances. This includes any substance defined as hazardous in section 101 (14) of the Comprehensive Environmental Response, Compensation and Liability Act of 1980 (CERCLA), with the exception of those substances regulated as hazardous waste under Subtitle C of RCRA. It also includes petroleum, e.g., crude oil or any fraction thereof which is liquid at standard conditions of temperature and pressure (60 degrees Fahrenheit and 14.7 pounds per square inch absolute).

Where To Notify? Completed notification forms should be sent to the address given at the top of this page.

When To Notify? 1. Owners of underground storage tanks in use or that have been taken out of operation after January 1, 1974, but still in the ground, must notify as May 8, 1986. 2. Owners who bring underground storage tanks into use after May 8, 1986, must notify within 30 days of bringing the tanks into use.

Penalties: Any owner who knowingly fails to notify or submits false information shall be subject to a civil penalty not to exceed $10,000 for each tank for which notification is not given or for which false information is submitted.

INSTRUCTIONS

Please type or print in ink all items except "signature" in Section V. This form must by completed for each location containing underground storage tanks. If more than 5 tanks are owned at this location, photocopy the reverse side, and staple continuation sheets to this form.

Indicate number of continuation sheets attached: [ ]

I. OWNERSHIP OF TANK(S)

Owner Name (Corporation, Individual, Public Agency, or Other Entity): Cannon AFB

Street Address: 111 Examiners Way

County: Curry

City: Cannon AFB | State: NM | ZIP Code: 88103

Area Code: 505 | Phone Number: 784-4351

Type of Owner (Mark all that apply ☒)

- [ ] Current
- [ ] Former
- [ ] State or Local Govt
- [x] Federal Govt (GSA facility I.D. no. Slumu62)
- [ ] Private or Corporate
- [ ] Ownership uncertain

II. LOCATION OF TANK(S)

(If same as Section 1, mark box here [ ])

Facility Name or Company Site Identifier, as applicable

Street Address or State Road, as applicable

County

City (nearest) | State | ZIP Code

Indicate number of tanks at this location: 3

Mark box here if tank(s) are located on land within an Indian reservation or on other Indian trust lands: [ ]

III. CONTACT PERSON AT TANK LOCATION

Name (If same as Section I, mark box here [ ]): Troy Montez

Job Title: CQC Cheyenne Bldg. Cont. INC

Area Code: 505 | Phone Number: 769-9216

IV. TYPE OF NOTIFICATION

[ ] Mark box here only if this is an amended or subsequent notification for this location.

V. CERTIFICATION (Read and sign after completing Section VI.)

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete.

Name and official title of owner or owner's authorized representative | Signature | Date Signed

CONTINUE ON REVERSE SIDE

CHEYENN
BUILDING CONTRACTORS INC.

P.O. BOX 418
LOVIS, NEW MEXICO 88102-0418
05) 769-9019 • FAX (505) 769-2588

GB98
LIC. NO. 30759

CERTIFICATE OF VAPOR TESTING

DATE 8-22-96

TANK OWNER Cannon AFB PHONE 784-4351

ADDRESS Swmu 62

CONTRACTOR REMOVING TANK Cheyenne

ADDRESS 1712 Pine St Clovis NM 88101 PHONE 769-9216

CHEYENNE BUILDERS IS CERTIFIED CONTRACTOR IN VAPOR TESTING.

I Troy Morales HEREBY CERTIFY THAT ~~TANK~~ Unit AT Bldg 5072 B IS FREE FROM COMBUSTIBLE MATERIAL.

TROY MORALES

MIKE LANDGRAF

SAMPLE INFORMATION

Sample ID No. CA62/1-96-0822-1326, CA62/2-96-0822-1326, CA62/3-96-0822-1327
CA62/4-96-0822-1328

Sample Depth: 3' Sample Matrix: Soil

Sample Location: excavation sides

Sample Purpose: Field Screening

Number of Samples Taken: 4 Preservatives Used: ICE

Sample Method: Headspace, Immnoassay Attached

Headspace Analysis: CA62/1=0.0 PPM, CA62/2 = 0.0PPM, CA62/3=8.4ppm, CA62/4=8.3PPM

Contaminated Action Level: >100 PPM TPH + >50 PPM BTEX

SAMPLE INFORMATION

Sample ID No.: CA62/5-96-0822-1328, CA62/6-96-0822-1329

Sample Depth: 55" Sample Matrix: Soil

Sample Location: Center of excavation

Sample Purpose: Field Screening

Number of Samples Taken: 2 Preservatives Used: ICE

Sample Method: Headspace + Immnoassay TPH Attached

Headspace Analysis: CA62/5 = 0.0 PPM, CA62/6 = 0.0 PPM

Contaminated Action Level: >100 PPM TPH + >50 PPM BTEX

SAMPLE INFORMATION

Sample ID No.: CA62/7-96-0822-1330

Sample Depth: 55" Sample Matrix: Soil

Sample Location: Center of excavation

Sample Purpose: site Confirmatory sample

Number of Samples Taken: 4 Preservatives Used: ICE

Sample Method: 8015, 8260, 8270, 7470 + 6010 using 1311 extraction

Headspace Analysis: NT

Contaminated Action Level:

SAMPLE INFORMATION

Sample ID No.: CA62/2-96-0822-1326, CA62/4-96-0822-1328

Sample Depth: 3' Sample Matrix: Soil

Sample Location: sides of excavation

Sample Purpose: Field Screening / Lab correlation

Number of Samples Taken: 2 Preservatives Used: ICE

Sample Method: 8015 MOD + 8020

Headspace Analysis: NT

Contaminated Action Level: >100 PPM TPH + >50 PPM BTEX

SAMPLE INFORMATION

Sample ID No.: CA62-18-96-0826-0920

Sample Depth: 2' Sample Matrix: Soil

Sample Location: inLet PiPe conection

Sample Purpose: Field Screening

Number of Samples Taken: 1 Preservatives Used: ICE

Sample Method: Headspace + Immnoassay TPH Attached

Headspace Analysis: 0.0 ppm voc

Contaminated Action Level: >100 PPM TPH ; >50 PPM BTEX

SAMPLE INFORMATION

Sample ID No.: CA62-19-96-0923-1103

Sample Depth: Composite Sample Matrix: Soil

Sample Location: Excavated material stockpile

Sample Purpose: Confirmatory for disposal

Number of Samples Taken: 2 Preservatives Used: ICE

Sample Method: Headspace, Immnoassay TPH & BTEX, 6010 + 7470 using 7311 ext.

Headspace Analysis: 0.2 PPM VOC other attached

Contaminated Action Level: > 100PPM TPH + >50 PPM BTEX

Data Sheet for PETRO RISc® SamplePro Test

Immunoassay according to EPA Method 4030

Operator: Troy Morales Date: 8-22-96 Location: Bldg. 5077B SWMU 62

Sample ID	Low Test Level ΔOD	Low Test Level OD sample	Low Test Level Interpretation	High Test Level ΔOD	High Test Level OD sample	High Test Level Interpretation	Comments
	Standards	15 ppm		Standards	100 ppm		
CA62/1-96-0822-1326	-0.16	0.19	<15 ppm	-0.20	0.07	<100 ppm	
CA62/2-96-0822-1326	-0.16	0.03	<15 ppm	-0.20	-0.23	>100 ppm	
CA62/3-96-0822-1327	-54	-0.31	>15 ppm	-0.01	0.25	<100 ppm	
CA62/4-96-0822-1328	-0.54	-0.12	>15 ppm	-0.01	0.27	<100 ppm	
CA62/5-96-0822-1328	-0.54	-0.60	>15 ppm	-0.01	0.38	<100 ppm	
CA62/6-96-0822-1329	-0.54	-0.36	>15 ppm	-0.01	0.25	<100 ppm	
CA62/9-96-0923-1103	-0.27	0.64	<15 ppm	-0.13	0.17	<100 ppm	<15 ppm TPH
CA62/9 BTEX	1.48	<10 ppm	BTEX	10 ppm 1.34,	50 ppm 1.05,	300 ppm 0.50	<10 ppm BTEX
TROY MORALEZ		8-23-96			SWMU 62/Retest		
CA62/2-96-0822-1326	-0.26	0.14	<15 ppm	-0.15	0.34	<100 ppm	
CA62/8-96-0826-920							
	-0.04	0.38	<15 ppm	-0.11	0.39	<100 ppm	Area of visual contamination

DATA SHEET
ENVIROGARD PETROLEUM FUELS (BTEX) IN SOIL TEST KIT

	OD VALUE
Negative Control	
10 ppm BTEX Calibrator	1.34
50 ppm BTEX Calibrator	1.05
300 ppm BTEX Calibrator	0.50

SAMPLE ID	OD VALUE	INTERPRETATION
CA62/9-96-0923-1103	1.48	< 10 PPm BTEX

EXCAVATION CHECK LIST

Company Cheyenne	Date 8-22-96
Site Location/Description 5077B, SWMU 62	Time 8:14 ☒ AM ☐ PM
Inspected by Troy Montez	Project Number DACA87-95-D-0035

RUCTIONS: Read the ITEM NUMBER and DESCRIPTION to determine the current conditions of this excavation site. Mark an (X) in the YES column if escription is present and has been satisfied. Mark an (X) in the NO column if the item has not been completed. Mark a line (–) across the YES and No umns if the ITEM does not apply. Use the NOTES section to list the ITEM NUMBER. Write any comments that apply to the ITEM NUMBER.

Item No.	DESCRIPTION	YES	NO	Item No.	DESCRIPTION	YES	NO
1	The utility company has been notified of excavation work schedule.	✓		19	Employees working below other employees in trench are protected from hazards.	NA	
2	Location of underground utility lines are identified.	✓		20	The trench is free of standing water.	✓	
3	Hazardous objects have been removed from excavation area or blocked securely.	✓		21	The proper water removal equipment is operating under guidance of competent person.	✓	
4	Soil type is classified.	✓		22	Diversion ditches or dikes are in place to prevent surface water from entering trench.	✓	
5	Sloping and Benching system is designed per OSHA requirements.	NA		23	The trench is inspected by competent person following any amount of rain.	✓	
6	Timber shoring system is designed per OSHA requirements.	NA		24	Employees are wearing proper safety equipment.	✓	
7	Aluminum Hydraulic shoring system is designed per OSHA requirements.	NA		25	Test air quality in trench if a hazardous atmosphere is suspected.	✓	
8	Shielding system is designed per OSHA requirements.	NA		26	A ventilation or respiratory protection is in use.	✓	
9	Shields are free from damage or defects.	NA		27	Protective support systems are installed from the top down.	NA	
10	Employees are protected from cave-ins when entering and exiting the shield.	NA		28	Protective support systems are dismantled from the bottom up.	NA	
	When a combination of sloping and shielding is used, the shield must extend 18 inches above the bottom slope of the excavation.	NA		29	Excavation is backfilled as the protective system is dismantled.	NA	
12	A ladder is provided and secured in trench four or more feet deep; top of ladder extending at least 36 inches above edge of trench.	✓		30	Heavy equipment is mounted on wooden mats to distribute weight.	NA	
13	A ladder is within 25 feet of all employees working in trench	✓		31	Damaged materials or equipment are removed from service.	✓	
14	Excavated material is stored at least two feet from the edge of the excavation.	✓		32	An emergency response program is in place.	✓	
15	Employees are protected from loose material which could fall into trench.	✓		33	Life support equipment is in working order.	✓	
16	A competent person inspects the trench prior to the start of the shift.	✓		34	Note other conditions. Excavation was monitored for Combustible		
17	The location of trench is marked by banners, barricades or other signals.	✓		35	gas, Oxygen, and VOC's		
18	Bridges or walkways over excavations are equipped with guardrails and toeboards.	NA		36			

Notes:

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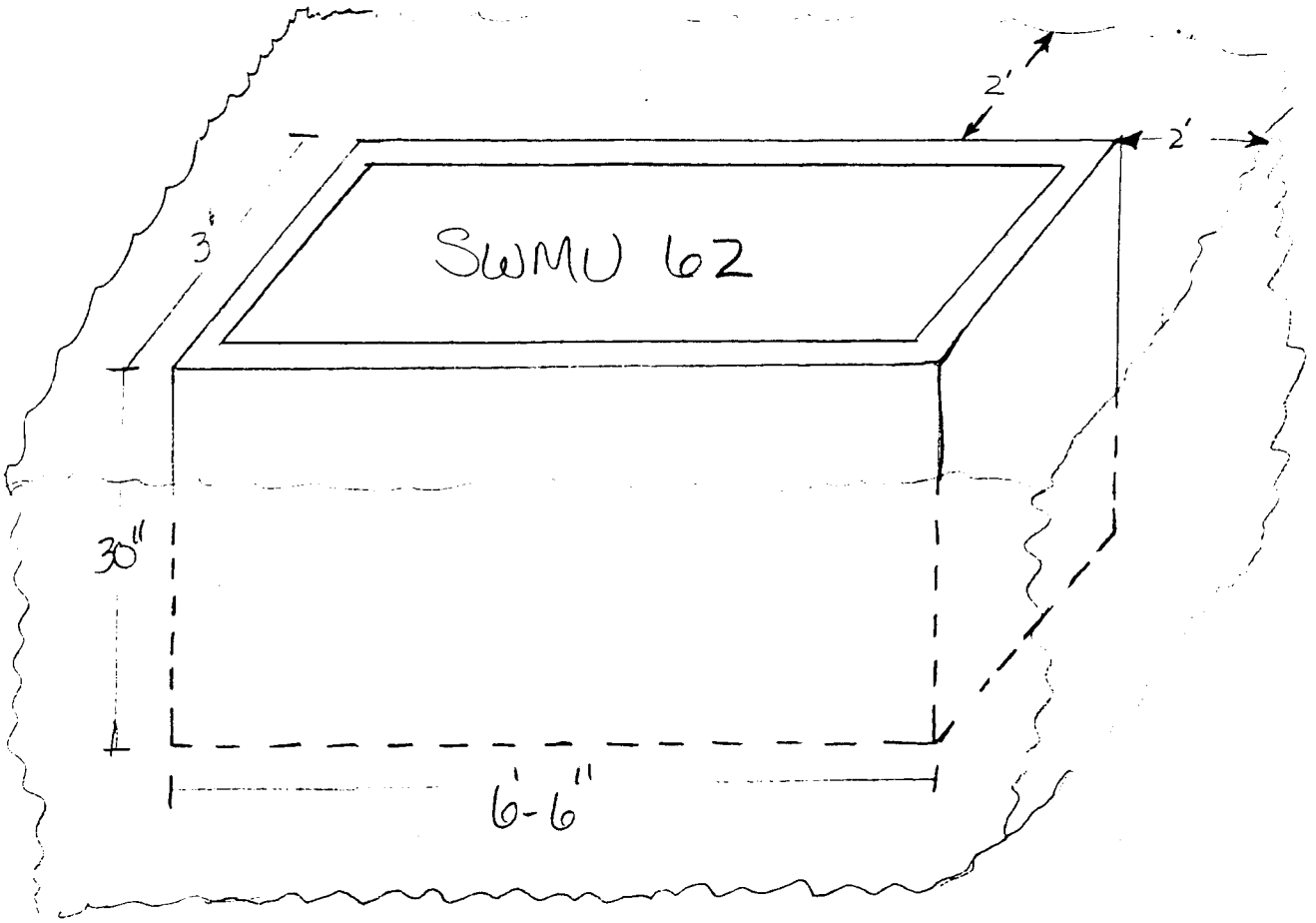
To Reorder Call: 1-800-327-6868



wall thickness : 4"

SWMU classified as: Non-Hazardous
Disposal facility for unit: Local Landfill

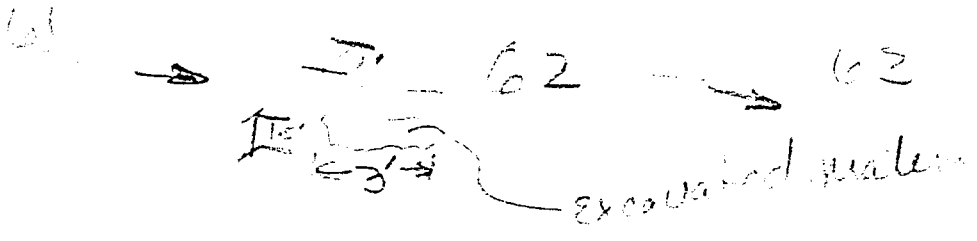
Tank Content: amount / disposal facility
Sand: Non / 165gal / Envirosolve Albq.
liquid: Non-Haz / 55 gal / Envirosolve SW Inc. Albq. NM
Sludge: Non-Haz / None / Envirosolve SW Inc Albq. N.M.

Soil:

Soil Classified as: Non-Hazardous
Disposal facility: used as backfill
for SWMU 112.

General Notes: Soiled area from piping vaporated. When test, Came back clean used for Backfill for 112.

PVC piping appeared to be leaking at the connection of pipe into the Sand trap. Stained soil was removed. Sample #8 was taken below Excavated area.



CHEYENNE BUILDING CONTRACTORS, INC.
QUALITY CONTROL FIELD NOTES
UNIT REMOVAL AT CANNON AFB, NM
CONTRACT NO.: DACA47-95-D-0035

DATE: 8-22-96
TIME: 8:40 AM
WEATHER: mild
TEMP.: 79°

UNIT INFORMATION

Unit Owner: U.S. Army Corp of Engineers Phone No.: 505-784-4351

Address: P.O. Box 1580 Albuquerque, NM 87103

Bldg. No.: 5077C SWMU No.: 63

Date Installed: unknown Date Last Used: unknown

Units Association with Facility: OWS for wash rack

Unit Width: 61" Unit Length: 10' Unit Depth: 4'-6"

Unit Contents: non-Haz liquid waste Gallons Removed: 450

Type of Ground Cover: topsoil & gravel

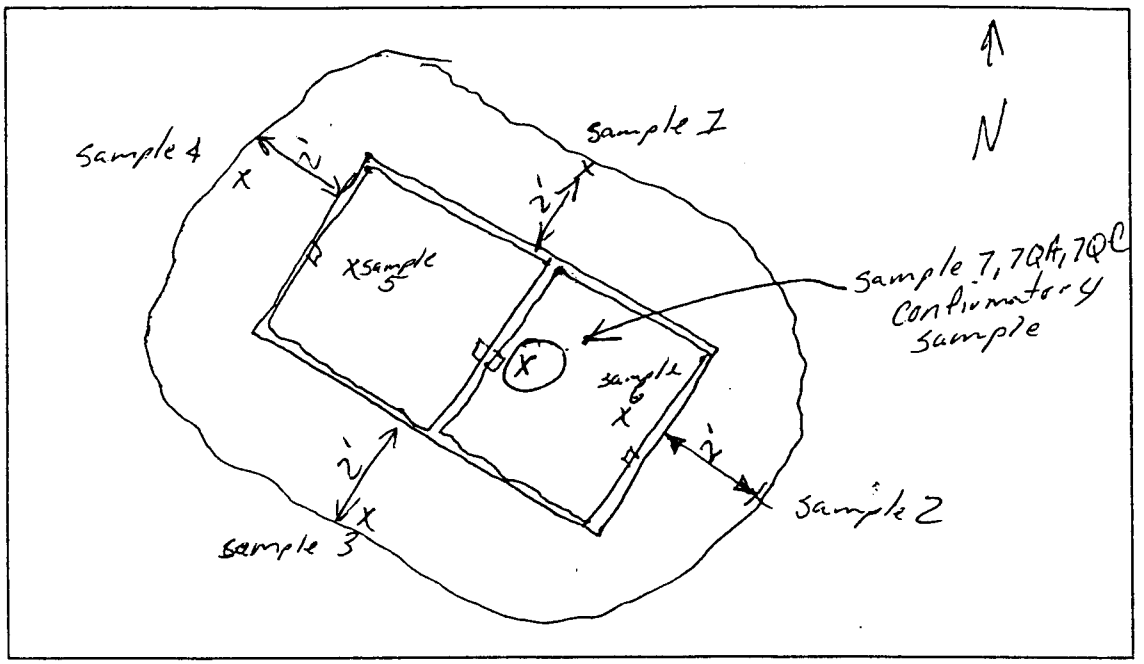
Petroleum Odors: YES ☐ NO ☒

Visual Characterization of Soil: clean

Evidence of a Spill: YES ☐ NO ☒

Other Potential Sources of Contamination: leaking pipes

SKETCH: SWMU 63



Samples 1 thru 6: Field screening (Headspace, Immunassay)

Sample 7a,b,c,d,: Confirmatory sample

SAmple 7QC/QA: Quality Assurance/Quality Control samples

Sample CA63/5: Field screening/lab analysis correlation sample

Sample CA63/8: Confirmatory (Excavated material)

ANK CLOSURE WORKSHEET
(COMPLETE AFTER CLOSURE)

Tank Owner Cannon AFB 88103 Phone 784-4351
Mailing Address 111 Engineers Way Cannon AFB 88103-5136
Tank Address Bldg. 5077c Swma 63
Contractor Name Cheyenne Bldg. Phone 769-9216
Address 1712 Prince St Clovis NM 88101
Contractor Name _____ Phone _____
Address _____

Tank Closure Date 8-22-96 # of Tanks Closed 2

****

I. Tank Closure Initial Procedures (check measures complied with):
- ✓ Obtain recommended safety equipment for all personnel
- ✓ Contact Fire Marshall or other fire officials
- ✓ Bond or ground equipment
- ✓ Drain product from piping and tank
- ✓ Disconnect, then cap or remove piping
- ✓ Remove all residual product from tank
- ✓ Excavate to tank top
- ✓ Remove all tank fixtures
- ✓ Properly purge or inert tank of all flammable vapors using approved method
- ✓ Continually monitor for explosive vapors while tank is being removed

II. Tank Removal
- ✓ Create vent hole
- ✓ Excavate tank using all safety precautions
- ✓ Clean and inspect tank
- ✓ Check excavation for evidence of leaks and notify EID and other proper authorities if leak is found
- ✓ Check vapor levels in tank before transporting
- ✓ Dispose of tank in approved manner

Tank disposal location Landfill Clovis NM 88101
City State

How did you assess site for leakage? field screening & laboratory analysis
Closure report kept at 111 Engineers Way Cannon AFB 88103
NOTE: Immediately report any evidence of leakage to EID at 827-0188

I hereby state that the above information is correct

[signature] C&C Cheyenne Bldg.
Signature of owner or contractor performing work

****

FOR EID USE ONLY
Notification Received _____ Approved By _____
Inspection Date _____ Inspector _____

Notification for Underground Storage Tanks

UST BUREAU/EID
1190 St. Francis Drive
Santa Fe, NM 87503

I.D. Number | STATE USE ONLY

Date Received

GENERAL INFORMATION

Notification is required by Federal law for all underground tanks that have been used to store regulated substances since January 1, 1974, that are in the ground as of May 8, 1986, or that are brought into use after May 8, 1986. The information requested is required by Section 9002 of the Resource Conservation and Recovery Act (RCRA), as amended.

The primary purpose of this notification program is to locate and evaluate underground tanks that store or have stored petroleum or hazardous substances. It is expected that the information you provide will be based on reasonably available records, or, in the absence of such records, your knowledge, belief, or recollection.

Who Must Notify? Section 9002 of RCRA, as amended, requires that, unless exempted, owners of underground tanks that store regulated substances must notify designated State or local agencies of the existence of their tanks. Owner means—

(a) in the case of an underground storage tank in use on November 8, 1984, or brought into use after that date, any person who owns an underground storage tank used for the storage, use, or dispensing of regulated substances, and

(b) in the case of any underground storage tank in use before November 8, 1984, but no longer in use on that date, any person who owned such tank immediately before the discontinuation of its use.

What Tanks Are Included? Underground storage tank is defined as any one or combination of tanks that (1) is used to contain an accumulation of "regulated substances," and (2) whose volume (including connected underground piping) is 10% or more beneath the ground. Some examples are underground tanks storing: 1. gasoline, used oil, or diesel fuel, and 2. industrial solvents, pesticides, herbicides or fumigants.

What Tanks Are Excluded? Tanks removed from the ground are not subject to notification. Other tanks excluded from notification are:

1. farm or residential tanks of 1,100 gallons or less capacity used for storing motor fuel for noncommercial purposes;
2. tanks used for storing heating oil for consumptive use on the premises where stored;
3. septic tanks;
4. pipeline facilities (including gathering lines) regulated under the Natural Gas Pipeline Safety Act of 1968, or the Hazardous Liquid Pipeline Safety Act of 1979, or which is an intrastate pipeline facility regulated under State laws;
5. surface impoundments, pits, ponds, or lagoons;
6. storm water or wastewater collection systems;
7. flow-through process tanks;
8. liquid traps or associated gathering lines directly related to oil or gas production and gathering operations;
9. storage tanks situated in an underground area (such as a basement, cellar, mineworking, drift, shaft, or tunnel) if the storage tank is situated upon or above the surface of the floor.

What Substances Are Covered? The notification requirements apply to underground storage tanks that contain regulated substances. This includes any substance defined as hazardous in Section 101 (14) of the Comprehensive Environmental Response, Compensation and Liability Act of 1980 (CERCLA), with the exception of those substances regulated as hazardous waste under Subtitle C of RCRA. It also includes petroleum, e.g., crude oil or any fraction thereof which is liquid at standard conditions of temperature and pressure (60 degrees Fahrenheit and 14.7 pounds per square inch absolute).

Where To Notify? Completed notification forms should be sent to the address given at the top of this page.

When To Notify? 1. Owners of underground storage tanks in use or that have been taken out of operation after January 1, 1974, but still in the ground, must notify by May 8, 1986. 2. Owners who bring underground storage tanks into use after May 8, 1986, must notify within 30 days of bringing the tanks into use.

Penalties: Any owner who knowingly fails to notify or submits false information shall be subject to a civil penalty not to exceed $10,000 for each tank for which notification is not given or for which false information is submitted.

INSTRUCTIONS

Please type or print in ink all items except "signature" in Section V. This form must by completed for each location containing underground storage tanks. If more than 5 tanks are owned at this location, photocopy the reverse side, and staple continuation sheets to this form.

Indicate number of continuation sheets attached: [ ]

I. OWNERSHIP OF TANK(S)

Owner Name (Corporation, Individual, Public Agency, or Other Entity): Cannon AFB

Street Address: 111 Engineers Way

County: Curry

City: Clovis | State: NM | ZIP Code: 88101

Area Code: 505 | Phone Number: 789-4351

Type of Owner (Mark all that apply ☑)

- [ ] Current
- [ ] Former
- [ ] State or Local Govt
- [x] Federal Govt (GSA facility I.D. no. SWMU 63)
- [ ] Private or Corporate
- [ ] Ownership uncertain

II. LOCATION OF TANK(S)

(If same as Section 1, mark box here [ ])

Facility Name or Company Site Identifier, as applicable:

Street Address or State Road, as applicable:

County:

City (nearest): | State: | ZIP Code:

Indicate number of tanks at this location: 3

Mark box here if tank(s) are located on land within an Indian reservation or on other Indian trust lands: [ ]

III. CONTACT PERSON AT TANK LOCATION

Name (If same as Section I, mark box here [ ]): Troy Montez | Job Title: CQC Cheyenne Bldg. | Area Code: 505 | Phone Number: 769-9216

IV. TYPE OF NOTIFICATION

[ ] Mark box here only if this is an amended or subsequent notification for this location.

V. CERTIFICATION (Read and sign after completing Section VI.)

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete.

Name and official title of owner or owner's authorized representative | Signature | Date Signed

CONTINUE ON REVERSE SIDE

CHEYENNE
BUILDING CONTRACTORS INC.
P O. BOX 418
OVIS, NEW MEXICO 88102-0418
(505) 769-9019 • FAX (505) 769-2588

GB98
LIC. NO. 30759

CERTIFICATE OF VAPOR TESTING

DATE 8-22-96

TANK OWNER Cannon AFB PHONE 784-4351

ADDRESS Bldg 5077c SWMU 63

CONTRACTOR REMOVING TANK Cheyenne

ADDRESS 1712 S Prince St Clovis NM PHONE 769-9216

CHEYENNE BUILDERS IS CERTIFIED CONTRACTOR IN VAPOR TESTING.

I Troy Morale HEREBY CERTIFY THAT ~~TANK~~ unit AT Bldg. 5077c IS FREE FROM COMBUSTIBLE MATERIAL.

TROY MORALEZ

MIKE LANDGRAF

Data Sheet for PETRO RISC® SamplePro Test

Immunoassay According to Epa Method 4030

Operator: Troy Mendez Date: 8-23-96 Location: Bldg. 5077c Sump 63

Sample ID	Low Test Level			High Test Level			Comments
	ΔOD Standards	OD sample 15 ppm	Interpretation	ΔOD Standards	OD sample 100 ppm	Interpretation	
CA63/1-96-0822-1340	-0.11	0.48	< 15 ppm	-0.03	0.45	< 100 ppm	
CA63/2-96-0822-1340	-0.11	0.61	< 15 ppm	-0.03	0.50	< 100 ppm	
CA63/3-96-0822-1340	-0.11	0.07	< 15 ppm	-0.03	0.48	< 100 ppm	
CA63/4-96-0822-1340	-0.11	0.34	< 15 ppm	-0.03	0.68	< 100 ppm	
CA63/5-96-0822-1340	-0.26	-0.07	< 15 ppm	-0.15	0.37	< 100 ppm	Highest reading/Correlation Sample
CA63/6-96-0822-1340	-0.26	0.16	< 15 ppm	-0.15	0.28	< 100 ppm	
CA63/8-96-0823-1104	-0.27	0.05	< 15 ppm	-0.13	0.23	< 100 ppm	< 15 ppm TPH
CA63/8 BTEX	1.74	< 10 ppm BTEX	10 ppm	1.34,	50 ppm 1.05,	300 ppm 0.50	< 10 ppm BTEX

SAMPLE CA63/5-96-0822-1340 will be sent to Lab for correlation. para (4.3.1.6)

DATA SHEET
ENVIROGARD PETROLEUM FUELS (BTEX) IN SOIL TEST KIT

	OD VALUE
Negative Control	
10 ppm BTEX Calibrator	1.34
50 ppm BTEX Calibrator	1.05
300 ppm BTEX Calibrator	0.50

SAMPLE ID	OD VALUE	INTERPRETATION
CA63/8-960923-1104	1.74	< 10 PPM

SAMPLE INFORMATION

Sample ID No.: CA63/7-96-0822-1340

Sample Depth: 6'-6" Sample Matrix: Soil

Sample Location: Center of excavation

Sample Purpose: Confirmatory Sample

Number of Samples Taken: 4 Preservatives Used: ICE

Sample Method: 8015, 8260, 8270, 6010 + 7470 using 1311 extraction

Headspace Analysis: NT

Contaminated Action Level:

SAMPLE INFORMATION

Sample ID No.: CA63/5-96-0822-1340

Sample Depth: 6'-6" Sample Matrix: Soil

Sample Location: Center of excavation

Sample Purpose: Field Screening / lab analysis correlation

Number of Samples Taken: 2 Preservatives Used: ICE

Sample Method: TRPH 8015 MOD & BTEX 8020

Headspace Analysis: NT

Contaminated Action Level: >100 PPM TPH & >50 PPM BTEX

SAMPLE INFORMATION

Sample ID No.: CA63/1-96-0822-1340, CA63/2-96-0822-1340, CA63/3-96-0822-1340
CA63/4-96-0822-1340

Sample Depth: 3' Sample Matrix: Soil

Sample Location: excavation sides

Sample Purpose: Field Screening

Number of Samples Taken: 4 Preservatives Used: ICE

Sample Method: Headspace, Immunoassay TPH Attached

Headspace Analysis: CA63/1 = 0.0PPM, CA63/2 = 0.0PPM, CA63/3 = 0.0PPM
CA63/4 = 0.0PPM VOC

Contaminated Action Level: >100 PPM TPH + >50 PPM BTEX

SAMPLE INFORMATION

Sample ID No.: CA63/5-96-0822-1340, CA63/6-96-0822-1340

Sample Depth: 6'-6" Sample Matrix: Soil

Sample Location: Center of excavation

Sample Purpose: Field Screening

Number of Samples Taken: 2 Preservatives Used: ICE

Sample Method: Headspace, Immunoassay TPH

Headspace Analysis: CA63/5 = 0.0PPM, CA63/6 = 0.0 PPM

Contaminated Action Level: >100 PPM TPH, >50PPM BTEX

SAMPLE INFORMATION

Sample ID No.: CA6318-96-0923-1104

Sample Depth: Composite Sample Matrix: Soil

Sample Location: Excavated material stockpile

Sample Purpose: Confirmatory for disposal

Number of Samples Taken: 2 Preservatives Used: ICE

Sample Method: Headspace, Immunoassay TPH+BTEX, 6010+7470 using 1311 Extraction

Headspace Analysis: 0.0 PPM VOC

Contaminated Action Level: >100 PPM TPH + >50 PPM BTEX

SAMPLE INFORMATION

Sample ID No.: CA6317 QC

Sample Depth: 6'-6" Sample Matrix: Soil

Sample Location: Center of location

Sample Purpose: QA / QC

Number of Samples Taken: 4 Preservatives Used: ICE

Sample Method: 8015, 8260, 8270, 6010+7470 using 1311 Ext.

Headspace Analysis: NT

Contaminated Action Level:

EXCAVATION CHECK LIST

Company: Cheyenne Bldg. nt. INC	Date: 8-22-96
Site Location/Description: Bldg. 5077c SWMU 63	Time: 8:49 ☐AM ☐PM
Inspected by: Troy Moralez	Project Number: DACA87-95-D-0035

INSTRUCTIONS: Read the ITEM NUMBER and DESCRIPTION to determine the current conditions of this excavation site. Mark an (X) in the YES column if description is present and has been satisfied. Mark an (X) in the NO column if the item has not been completed. Mark a line (–) across the YES and No columns if the ITEM does not apply. Use the NOTES section to list the ITEM NUMBER. Write any comments that apply to the ITEM NUMBER.

Item No.	DESCRIPTION	YES	NO	Item No.	DESCRIPTION	YES	NO
1	The utility company has been notified of excavation work schedule.	✓		19	Employees working below other employees in trench are protected from hazards.	NA	
2	Location of underground utility lines are identified.	✓		20	The trench is free of standing water.	✓	
3	Hazardous objects have been removed from excavation area or blocked securely.	✓		21	The proper water removal equipment is operating under guidance of competent person.	✓	
4	Soil type is classified.	✓		22	Diversion ditches or dikes are in place to prevent surface water from entering trench.	✓	
5	Sloping and Benching system is designed per OSHA requirements.	✓		23	The trench is inspected by competent person following any amount of rain.	✓	
6	Timber shoring system is designed per OSHA requirements.	NA		24	Employees are wearing proper safety equipment.	✓	
7	Aluminum Hydraulic shoring system is designed per OSHA requirements.	NA		25	Test air quality in trench if a hazardous atmosphere is suspected.	✓	
8	Shielding system is designed per OSHA requirements.	NA		26	A ventilation or respiratory protection is in use.	✓	
9	Shields are free from damage or defects.	NA		27	Protective support systems are installed from the top down.	NA	
10	Employees are protected from cave-ins when entering and exiting the shield.	NA		28	Protective support systems are dismantled from the bottom up.	NA	
11	When a combination of sloping and shielding is used, the shield must extend 18 inches above the bottom slope of the excavation.	NA		29	Excavation is backfilled as the protective system is dismantled.	NA	
12	A ladder is provided and secured in trench four or more feet deep; top of ladder extending at least 36 inches above edge of trench.	✓		30	Heavy equipment is mounted on wooden mats to distribute weight.	NA	
13	A ladder is within 25 feet of all employees working in trench	✓		31	Damaged materials or equipment are removed from service.	✓	
14	Excavated material is stored at least two feet from the edge of the excavation.	✓		32	An emergency response program is in place.	✓	
15	Employees are protected from loose material which could fall into trench.	✓		33	Life support equipment is in working order.	✓	
16	A competent person inspects the trench prior to the start of the shift.	✓		34	Note other conditions. monitoring levels 2% LEL, 19.5 Oxygen, 0.0		
17	The location of trench is marked by banners, barricades or other signals.	✓		35	VOC's		
18	Bridges or walkways over excavations are equipped with guardrails and toeboards.	NA		36			

Notes:

[illegible] CQC

© 1993 J.J. KELLER & ASSOCIATES, INC. Neenah, WI 54957-0368
To Reorder Call: 1-800-327-6868

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. N M 7 5 7 2 1 2 4 4 5 4

Manifest Document No. S W 0 6 2

2. Page 1 of 1

Generator's Name and Mailing Address

27 CE/CEVP (Attn: Vera Wood) 111 Engineers Way
Cannon AFB NM 88103-5136

4. Generator's Phone ( ) ~~505 784-6022 or X4820~~

5. Transporter 1 Company Name: ENVIROSOLVE SOUTHWEST, INC.

6. US EPA ID Number: NM0000590210

7. Transporter 2 Company Name

8. US EPA ID Number

9. Designated Facility Name and Site Address: ENVIROSOLVE SOUTHWEST, INC. 5338 WILLIAMS SE ALBUQUERQUE, NM 87105

10. US EPA ID Number: NM0000590210

A. Transporter's Phone

B. Transporter's Phone

C. Facility's Phone: 505-873-0964

11. Waste Shipping Name and Description	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
a. NON RCRA. NON DOT WASTE LIQUIDS (WASTE WATER)	63 009	DM	3325	P
b. NON-RCRA NON-DOT WASTE SOLIDS (NON HAZ Solids)	61 002	DM	0200	P
c.				
d.				

Additional Descriptions for Materials Listed Above

11.A) 9155
11.B) 7155

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

11a oil water Separator #63
11b. oil water Separator ~~#62 (Sludge)~~ UAW #61

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: Vera A. Wood, CE II | Signature: Vera A. Wood | Month Day Year: 0 8 2 0 9 6

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: Tim Morris | Signature | Month Day Year: 08 20 96

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name | Signature | Month Day Year

19. Discrepancy Indication Space

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

Printed/Typed Name | Signature | Month Day Year

GENERATOR

TRANSPORTER

FACILITY

TRANSPORTER #2

ASSAIGAI ANALYTICAL LABORATORIES

Chain of Custody Record

7300 JEFFERSON, N.E.
ALBUQUERQUE, NEW MEXICO 87109
(505) 345-8964

3332 WEDGEWOOD
EL PASO, TEXAS 79925
(915) 593-6000

1910 N. BIG SPRING
MIDLAND, TEXAS 79705
(915) 570-1116

MELQUIADES ALANIS
6411 LOCAL UNO
CIUDAD JUAREZ, CHIHUAHUA MEXICO 32320

Lab job no.: _____ Date _____

Page _____ of _____

Client: Cheyenne / LCI-2

Address: 1112 S Prince St

City / State / Zip: CLOVIS NM 88101

Project Name / Number: DHCH47-95-0-0035

Contract / Purchase Order / Quote: DHA / MOORE

Project Manager / Contact: Mike Landgraf

Telephone No.: 505-763-1910

Fax No.: 505-769-0780

Samplers: (Signature)

ON ER	Field Sample Number / Location	Date	Time	Sample Type	Type / Size of Container	Preservation Temp.	Preservation Chemical	No. of Containers	TPH mod 8015	VOC's 8260	SVOC's 8270	THE RCRA METALS	Extractable Chlorinated Pesticides 8310					Remarks
	CA70/17-96-0916-1155	09/16/96	11:55	soil	1:402, 3:8oz glass		ICE	4	X	X	X	X						
	CA62/9-96-0916-1140	"	1140	soil	"		"	4	X	X	X	X						
	CA61/9-96-0916-1150	"	1150	soil	"		"	4	X	X	X	X						excavated material
	CA63/8-96-0916-1329	"	13:29	soil	"		"	4	X	X	X	X						confirmatory
	CA38/1-96-0916-1330	"	13:30	soil	"		"	4	X	X	X	X						samples

FOR LCI USE ONLY

Relinquished by:	Date	Received by:	Relinquished by:	Date	Received by:
Signature: [signature]	9/16/96	Signature: [signature]	Signature:		Signature:
Printed: Troy McKalet	Time	Printed: SN Gonzales	Printed:	Time	Printed:
Company: Cheyenne / LCI-2	15:53	Company: TNMTC	Company:		Company:
Reason: Shipment		Reason: Shipment	Reason:		Reason:

Method of Shipment: _____

Shipment No. _____

Special Instructions: _____

Comments: _____

After analysis, samples are to be:

- ☐ Disposed of (additional fee)
- ☑ Stored (30 days max)
- ☐ Stored over 30 days (additional fee)
- ☐ Returned to customer

FIELD

ASSAIGAI ANALYTICAL LABORATORIES

Chain of Custody Record

7300 JEFFERSON, N.E.
ALBUQUERQUE, NEW MEXICO 87109
(505) 345-8964

3332 WEDGEWOOD
EL PASO, TEXAS 79925
(915) 593-6000

1910 N. BIG SPRING
MIDLAND, TEXAS 79705
(915) 570-1116

MELQUIADES ALANIS
6411 LOCAL UNO
CIUDAD JUÁREZ, CHIHUAHUA MEXICO 32320

Lab job no.: _____ Date _____

Page _____ of _____

Client: Cheyenne / LCT-2, INC

Address: 1712 Sprice St

City / State / Zip: Clovis NM 88101

Project Name / Number: Clovis Removal DACA97-95-D-0035

Contract / Purchase Order / Quote: Dave Alex

Project Manager / Contact: Mike Lankford

Telephone No.: 505-763-1110

Fax No.: 505-769-0780

Samplers: (Signature)

Lab Sample No.	Field Sample Number / Location	Date	Time	Sample Type	Type / Size of Container	Preservation Temp.	Preservation Chemical	No. of Containers	TPH 8015 MOD	VOC 8260	TAL/TAL MET 6010	SVOC 8270		BTEX 8020			Remarks
	CA62/7-96-0822-1330	8/22/96	13:30	Soil	9oz Glass	ice		4	X	X	X	X					CA62/7A thru CA62/7D
	CA63/7-96-0822-1340	8/22/96	13:40	Soil	9oz Glass	ice		4	X	X	X	X					CA63/7H thru CA63/7D
	CA63/7 QC	8/22/96	13:40	Soil	9oz Glass	ice		4	X	X	X	X					CA63/7QC thru CA63/7DQC
	CA61/6-96-0821-1315	8/23/96	13:15	Soil	9oz Glass			1	X					X			correlation sample (Highest)
	CA62/A-96-0822-1328	8/23/96	13:28	Soil	9oz Glass			1	X					X			correlation sample 10th of 10
	CA62/2-96-0822-1328	8/23/96	13:28	Soil	9oz Glass			1	X					X			correlation sample (Highest)
	CA63/5-96-0822-1340	8/23/96	13:40	Soil				1	X					X			correlation Sample (Highest)

Relinquished by:	Date	Received by:	Relinquished by:	Date	Received by:
Signature:	8/23/96	Signature:	Signature:		Signature:
Printed: Troy Marlatt	Time	Printed:	Printed:	Time	Printed:
Company: Cheyenne	12:23	Company: TNMTO	Company:		Company:
Reason: Shipment		Reason:	Reason:		Reason:

Method of Shipment: _____

Shipment No. _____

Special Instructions: _____

Comments: _____

After analysis, samples are to be:

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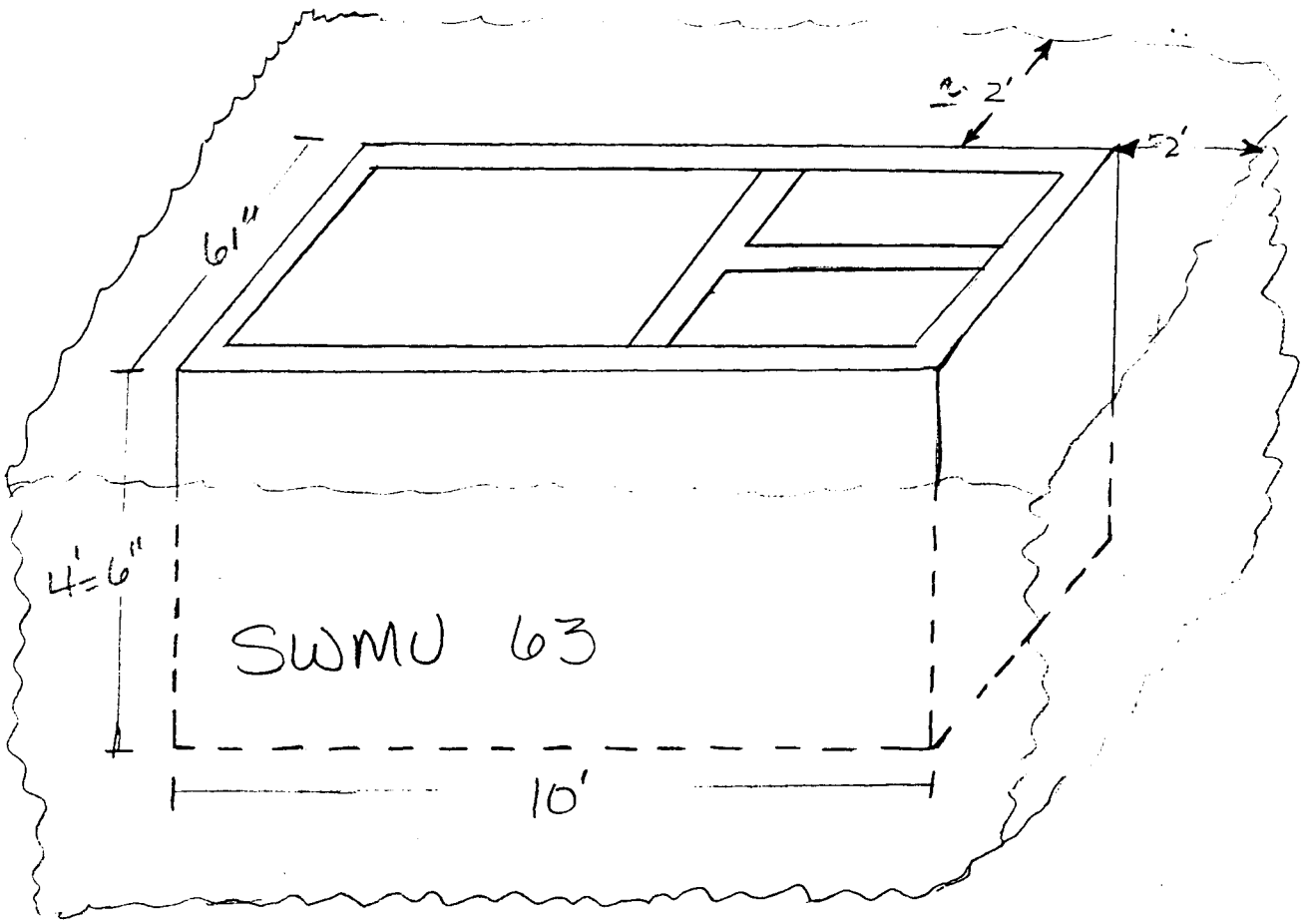
FIELD



wall thickness : 6"

SWMU classified as: Non-Hazardous
Disposal facility for unit: Local Landfill

Tank Content: amount / disposal facility
Sand: None
liquid: 450 gal / Enviroselve Alkaline
Sludge: None

Soil:

Soil Classified as: Non-Hazardous
Disposal facility: SWMU 112
used as backfill

General Notes: Tank was removed in one piece. There was No dark staining on the soil below the tank. Lab. Analysis came back clean. Field Sample tested less than 100 ppm - BTEX

CHEYENNE BUILDING CONTRACTORS, INC.
QUALITY CONTROL FIELD NOTES
UNIT REMOVAL AT CANNON AFB, NM
CONTRACT NO.: DACA47-95-D-0035

DATE: 9-6-96
TIME: 9:00 AM
WEATHER: Mild
TEMP.: 80°

UNIT INFORMATION

Unit Owner: U.S. Army Corp of Engineers Phone No.: 505-784-4351

Address: P.O. Box 1580 Albuquerque, NM 87103

Bldg. No.: 326 SWMU No.: 70

Date Installed: ~ 1958 Date Last Used: unknown

Units Association with Facility: OWS + UST

Unit Width: 2' Unit Length: 2' Unit Depth: 7'

Unit Contents: SAND Gallons Removed: 200 gal.

Type of Ground Cover: Grass

Petroleum Odors: YES ☒ NO ☐

Visual Characterization of Soil: Dark areas of contamination around unit

Evidence of a Spill: YES ☐ NO ☒

Other Potential Sources of Contamination: underground storage tank + piping

UST BUREAU/EID
1190 St. Francis Drive
Santa Fe, NM 87503

J. Number | STATE USE ONLY

Date Received

GENERAL INFORMATION

Notification is required by Federal law for all underground tanks that have been used to store regulated substances since January 1, 1974, that are in the ground as of May 8, 1986, or that are brought into use after May 8, 1986. The information requested is required by Section 9002 of the Resource Conservation and Recovery Act (RCRA), as amended.

The primary purpose of this notification program is to locate and evaluate underground tanks that store or have stored petroleum or hazardous substances. It is expected that the information you provide will be based on reasonably available records, or, in the absence of such records, your knowledge, belief, or recollection.

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(a) in the case of an underground storage tank in use on November 8, 1984, or brought into use after that date, any person who owns an underground storage tank used for the storage, use, or dispensing of regulated substances, and

(b) in the case of any underground storage tank in use before November 8, 1984, but no longer in use on that date, any person who owned such tank immediately before the discontinuation of its use.

What Tanks Are Included? Underground storage tank is defined as any one or combination of tanks that (1) is used to contain an accumulation of "regulated substances," and (2) whose volume (including connected underground piping) is 10% or more beneath the ground. Some examples are underground tanks storing: 1. gasoline, used oil, or diesel fuel, and 2. industrial solvents, pesticides, herbicides or fumigants.

What Tanks Are Excluded? Tanks removed from the ground are not subject to notification. Other tanks excluded from notification are:
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2. tanks used for storing heating oil for consumptive use on the premises where stored;
3. septic tanks;
4. pipeline facilities (including gathering lines) regulated under the Natural Gas Pipeline Safety Act of 1968, or the Hazardous Liquid Pipeline Safety Act of 1979, or which is an intrastate pipeline facility regulated under State laws;
5. surface impoundments, pits, ponds, or lagoons;
6. storm water or wastewater collection systems;
7. flow-through process tanks;
8. liquid traps or associated gathering lines directly related to oil or gas production and gathering operations;
9. storage tanks situated in an underground area (such as a basement, cellar, mine working, drift, shaft, or tunnel) if the storage tank is situated upon or above the surface of the floor.

What Substances Are Covered? The notification requirements apply to underground storage tanks that contain regulated substances. This includes any substance defined as hazardous in section 101 (14) of the Comprehensive Environmental Response, Compensation and Liability Act of 1980 (CERCLA) with the exception of those substances regulated as hazardous waste under Subtitle C of RCRA. It also includes petroleum, e.g., crude oil or any fraction thereof which is liquid at standard conditions of temperature and pressure (60 degrees Fahrenheit and 14.7 pounds per square inch absolute).

Where To Notify? Completed notification forms should be sent to the address given at the top of this page.

When To Notify? 1. Owners of underground storage tanks in use or that have been taken out of operation after January 1, 1974, but still in the ground, must notify by May 8, 1986. 2. Owners who bring underground storage tanks into use after May 8, 1986, must notify within 30 days of bringing the tanks into use.

Penalties: Any owner who knowingly fails to notify or submits false information shall be subject to a civil penalty not to exceed $10,000 for each tank for which notification is not given or for which false information is submitted.

INSTRUCTIONS

Please type or print in ink all items except "signature" in Section V. This form must by completed for each location containing underground storage tanks. If more than 5 tanks are owned at this location, photocopy the reverse side, and staple continuation sheets to this form.

Indicate number of continuation sheets attached: [ ]

I. OWNERSHIP OF TANK(S)

Owner Name (Corporation, Individual, Public Agency, or Other Entity): 77 CE/CEVP

Street Address: 111 Engineers Way

County: Cannon AFB

City: Curry | State: NM | ZIP Code: 88103

Area Code: (505) | Phone Number: 784-6022

Type of Owner (Mark all that apply ☒)

- [ ] Current
- [ ] Former
- [ ] State or Local Govt
- [x] Federal Govt (GSA facility I.D. no. Cannon AFB)
- [ ] Private or Corporate
- [ ] Ownership uncertain

II. LOCATION OF TANK(S)

(If same as Section 1, mark box here [ ])

Facility Name or Company Site Identifier, as applicable: SWMU 70

Street Address or State Road, as applicable: Bldg. 326

County: Curry

City (nearest): Cannon AFB | State: NM | ZIP Code: 88103

Indicate number of tanks at this location: 2

Mark box here if tank(s) are located on land within an Indian reservation or on other Indian trust lands: [ ]

III. CONTACT PERSON AT TANK LOCATION

Name (If same as Section I, mark box here [ ]): Troy Moralez

Job Title: CQC Cheyenne Bldg. Cont. INC.

Area Code: (505) | Phone Number: 769-9216

IV. TYPE OF NOTIFICATION

[ ] Mark box here only if this is an amended or subsequent notification for this location.

V. CERTIFICATION (Read and sign after completing Section VI.)

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete.

Name and official title of owner or owner's authorized representative | Signature | Date Signed

CONTINUE ON REVERSE SIDE

ANK CLOSURE WORKSHEET
(COMPLETE AFTER CLOSURE)

Tank Owner CE/CEIP Phone 784-6022
Mailing Address 111 Engineers Way Cannon AFB 88103
Tank Address Summer 70, Bldg 326
Contractor Name Cheyenne Bldg. Cont Phone 763-1410
Address 1712 S Prince St CLOVIS NM 88101
Contractor Name _____ Phone _____
Address _____

Tank Closure Date 9-6-96 # of Tanks Closed 2

****

I. Tank Closure Initial Procedures (check measures complied with):
- ✓ Obtain recommended safety equipment for all personnel
- ✓ Contact Fire Marshall or other fire officials
- ✓ Bond or ground equipment
- ✓ Drain product from piping and tank
- ✓ Disconnect, then cap or remove piping
- ✓ Remove all residual product from tank
- ✓ Excavate to tank top
- ✓ Remove all tank fixtures
- ✓ Properly purge or inert tank of all flammable vapors using approved method
- ✓ Continually monitor for explosive vapors while tank is being removed

II. Tank Removal
- ✓ Create vent hole
- ✓ Excavate tank using all safety precautions
- ✓ Clean and inspect tank
- ✓ Check excavation for evidence of leaks and notify EID and other proper authorities if leak is found
- ✓ Check vapor levels in tank before transporting
- ✓ Dispose of tank in approved manner

Tank disposal location Landfill Clovis NM
City State
How did you assess site for leakage? field Screening + Lab analysis
Closure report kept at 111 Engineers Way Cannon AFB NM 88103
NOTE: Immediately report any evidence of leakage to EID at 827-0188

I hereby state that the above information is correct

[signature] CRC Cheyenne
Signature of ~~owner or~~ contractor performing work

****

FOR EID USE ONLY
Notification Received _____ Approved By _____
Inspection Date _____ Inspector _____

EXCAVATION CHECK LIST

Company: Cheyenne Bldg at IDC.	Date: 9/6/96
Site Location/Description: Bldg. 326 Sumu 70	Time: 9:00 ☒ AM ☐ PM
Inspected by: Troy Morales	Project Number:

INSTRUCTIONS: Read the ITEM NUMBER and DESCRIPTION to determine the current conditions of this excavation site. Mark an (X) in the YES column if description is present and has been satisfied. Mark an (X) in the NO column if the item has not been completed. Mark a line (–) across the YES and NO columns if the ITEM does not apply. Use the NOTES section to list the ITEM NUMBER. Write any comments that apply to the ITEM NUMBER.

Item No.	DESCRIPTION	YES	NO	Item No.	DESCRIPTION	YES	NO
1	The utility company has been notified of excavation work schedule.	X		19	Employees working below other employees in trench are protected from hazards.	NA	
2	Location of underground utility lines are identified.	X		20	The trench is free of standing water.	X	
3	Hazardous objects have been removed from excavation area or blocked securely.	X		21	The proper water removal equipment is operating under guidance of competent person.	X	
4	Soil type is classified.	X		22	Diversion ditches or dikes are in place to prevent surface water from entering trench.	NA	
5	Sloping and Benching system is designed per OSHA requirements.		X	23	The trench is inspected by competent person following any amount of rain.	X	
6	Timber shoring system is designed per OSHA requirements.		X	24	Employees are wearing proper safety equipment.	X	
7	Aluminum Hydraulic shoring system is designed per OSHA requirements.		X	25	Test air quality in trench if a hazardous atmosphere is suspected.	X	
8	Shielding system is designed per OSHA requirements.		X	26	A ventilation or respiratory protection is in use.	X	
9	Shields are free from damage or defects.		X	27	Protective support systems are installed from the top down.	NA	
10	Employees are protected from cave-ins when entering and exiting the shield.	NA		28	Protective support systems are dismantled from the bottom up.	NA	
	When a combination of sloping and shielding is used, the shield must extend 18 inches above the bottom slope of the excavation.	NA		29	Excavation is backfilled as the protective system is dismantled.	X	
12	A ladder is provided and secured in trench four or more feet deep; top of ladder extending at least 36 inches above edge of trench.	X		30	Heavy equipment is mounted on wooden mats to distribute weight.	NA	
13	A ladder is within 25 feet of all employees working in trench	X		31	Damaged materials or equipment are removed from service.	X	
14	Excavated material is stored at least two feet from the edge of the excavation.	X		32	An emergency response program is in place.	X	
15	Employees are protected from loose material which could fall into trench.	X		33	Life support equipment is in working order.	X	
16	A competent person inspects the trench prior to the start of the shift.	X		34	Note other conditions.		
17	The location of trench is marked by banners, barricades or other signals.	X		35			
18	Bridges or walkways over excavations are equipped with guardrails and toeboards.	NA		36			

Notes:

[signature] CAC Cheyenne

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To Reorder Call: 1-800-327-6868

CHEYENNE
BUILDING CONTRACTORS INC.

P.O. BOX 418
CLOVIS, NEW MEXICO 88102-0418
(505) 769-9019 • FAX (505) 769-2588

GB98
LIC. NO. 30759

CERTIFICATE OF VAPOR TESTING

DATE 9-6-96

TANK OWNER Cannon AFB PHONE 505-784-4351

ADDRESS SWMU 70

CONTRACTOR REMOVING TANK Cheyenne Bldg. Cont. INC.

ADDRESS 1712 S Prince St Clovis NM 88101 PHONE 763-1410

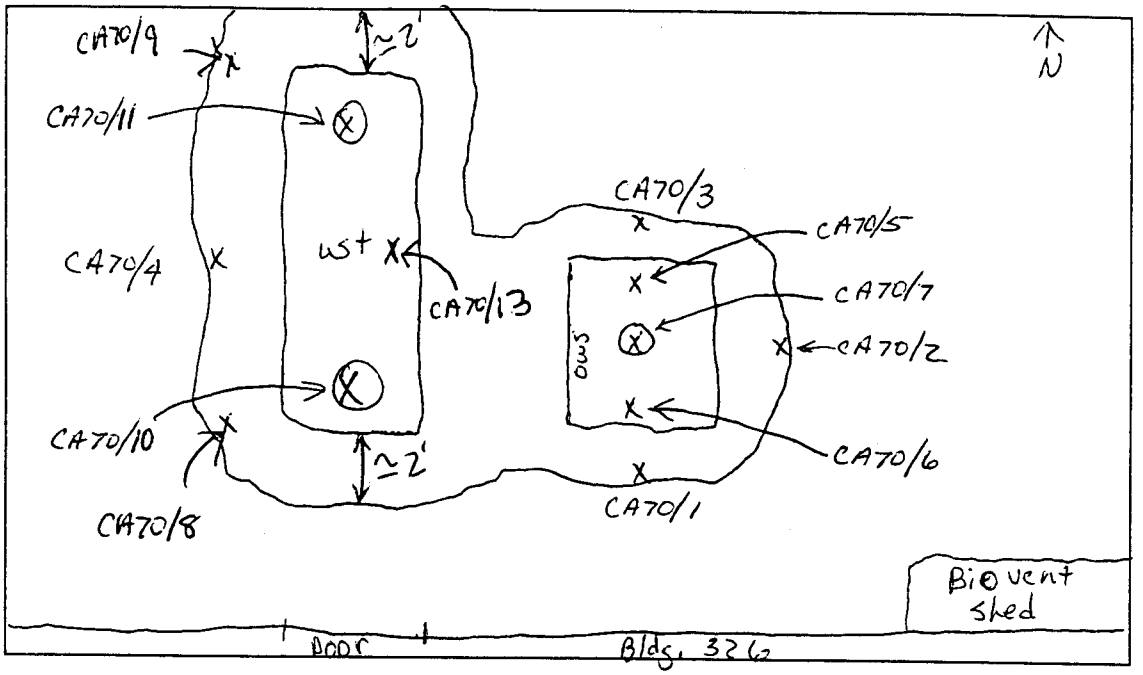
CHEYENNE BUILDERS IS CERTIFIED CONTRACTOR IN VAPOR TESTING.

I Troy Moralez HEREBY CERTIFY THAT ~~TANK~~ SWMU 70 AT Bldg. 326 IS FREE FROM COMBUSTIBLE MATERIAL.

TROY MORALEZ

MIKE LANDGRAF

SKETCH: Swmu 70 Bldg. 326



Samples 1 thru 6, 8, 9 + 13 Field screening samples (Immunoassay + Headspace

Sample 7, 10 + 11 confirmatory samples

Sample 3: Field screening/lab analysis correlation sample (duplicate split

Sample 12: confirmatory sample from excavated material (
TAL RCRA metals, TCLP metals,
Immunoassay TPH + BTEX, Headspace

Sample 14: sand trap contents confirmatory

Sample 15: tank contents confirmatory

SAMPLE INFORMATION

Sample ID No.: CA70/7-96-0906-1210, CA70/10-96-0910-1030, CA70/11-96-0910-1031

Sample Depth: CA70/7 = 66", CA70/10 + CA70/11 = 10' Sample Matrix: Soil

Sample Location: Bottom of excavation

Sample Purpose: confirmatory samples UST Closure

Number of Samples Taken: 12 Preservatives Used: ICE

Sample Method: 8015, 8260, 8270, 6010 + 7470 using 1311 Extraction

Headspace Analysis: NT

Contaminated Action Level:

SAMPLE INFORMATION

Sample ID No.: CA70/3-96-0906-1200

Sample Depth: 3' Sample Matrix: Soil

Sample Location: side of excavation

Sample Purpose: Field screening / lab analysis correlation

Number of Samples Taken: 1 Preservatives Used: ICE

Sample Method: 8015 + 8020

Headspace Analysis: 68.1 PPM

Contaminated Action Level: >100 PPM TPH + >50 PPM BTEX

SAMPLE INFORMATION

Sample ID No.: CA70/5-96-0906-1205, CA70/6-96-0906-1205, CA70/8-96-0909-1140, CA70/9-96-0909-1141

Sample Depth: CA70/5&6 = 66", CA70/8&9 = 8' Sample Matrix: Soil

Sample Location: Bottom of excavation

Sample Purpose: Field Screening

Number of Samples Taken: 4 Preservatives Used: ICE

Sample Method: Immroassay TPH + BTEX, Headspace

Headspace Analysis: CA70/5 = 102.1 ppm, CA70/6 = 86.1 ppm, CA70/8 = 4.6 PPM CA70/9 = 2.9 ppm

Contaminated Action Level: >100 PPM TPH + 750 PPM BTEX

SAMPLE INFORMATION

Sample ID No.: CA70/1-96-0906-1200, CA70/2-96-0906-1200, CA70/3-96-0906-1200 CA70/4-96-0906-1205

Sample Depth: 3' Sample Matrix: Soil

Sample Location: sides of excavation

Sample Purpose: Field Screening

Number of Samples Taken: 4 Preservatives Used: ICE

Sample Method: Immroassay TPH & BTEX, Headspace

Headspace Analysis: CA70/1 = 25.0 PPM, CA70/2 = 0.6 PPM, CA70/3 = 68.1 PPM CA70/4 = 2.1 PPM

Contaminated Action Level: >100 PPM TPH + >50 PPM BTEX

SAMPLE INFORMATION

Sample ID No.: CA70/12-96-0916-1155

Sample Depth: Composite Sample Matrix: Soil

Sample Location: excavated material stockpile

Sample Purpose: Disposal

Number of Samples Taken: 1 Preservatives Used: ICE

Sample Method: Immunoassay TPH+BTEX, Headspace, 6010+7470 using 1311 Extr.

Headspace Analysis: 1.7 PPM

Contaminated Action Level: >100 PPM TPH + >50 PPM BTEX

SAMPLE INFORMATION

Sample ID No.: CA70/13-96-0910-1032

Sample Depth: 8' Sample Matrix: Soil

Sample Location: Below UST

Sample Purpose: Field Screening

Number of Samples Taken: 1 Preservatives Used: ICE

Sample Method: Immunoassay TPH+BTEX, Headspace

Headspace Analysis: 0.3 PPM

Contaminated Action Level: >100 PPM TPH + >50 PPM BTEX

SAMPLE INFORMATION

Sample ID No.: CA 70/14-96-1009-1400

Sample Depth: composite Sample Matrix: Soil

Sample Location: sand trap contents

Sample Purpose: Confirmatory

Number of Samples Taken: 2 Preservatives Used: ICE

Sample Method: 6010 & 7470 using 1311 Extraction, Immunoassay TPH & BTEX

Headspace Analysis: NT

Contaminated Action Level: >100 PPM TPH & >50 PPM BTEX

SAMPLE INFORMATION

Sample ID No.: CA 70/15-96-1009-1401

Sample Depth: composite Sample Matrix: Soil

Sample Location: tank contents

Sample Purpose: Confirmatory

Number of Samples Taken: 2 Preservatives Used: ICE

Sample Method: 6010 & 7470 using 1311 Extr., Immunoassay TPH & BTEX

Headspace Analysis: NT

Contaminated Action Level: >100 PPM TPH & >50 PPM BTEX

Data Sheet for PETRO RISC® SamplePro Test

Immunoassay TPH | Method 4030

Operator: Troy Morales Date: 9-6-96 Location: SWMU 70 Bldg. 326

Sample ID	Low Test Level ΔOD Standards	Low Test Level OD sample 15 ppm	Low Test Level Interpretation	High Test Level ΔOD Standards	High Test Level OD sample 100 ppm	High Test Level Interpretation	Comments
CA70/1-96-0906-1200	-0.28	-0.74	>15 PPM	-0.05	-0.45	>100 PPM	
CA70/2-96-0906-1200	-0.28	0.28	<15 PPM	-0.05	0.26	<100 PPM	
CA70/3-96-0906-1200	-0.28	-0.80	>15 PPM	-0.05	-0.74	>100 PPM	correlation sample
CA70/4-96-0906-1205	-0.28	-0.84	>15 PPM	-0.05	-0.75	>100 PPM	
CA70/5-96-0906-1205	-0.04	-0.66	>15 PPM	-0.15	-0.91	>100 PPM	
CA70/6-96-0906-1205	-0.04	-0.65	>15 PPM	-0.15	-0.92	>100 PPM	
CA70/8-96-0909-1140	-0.04	0.67	<15 PPM	-0.15	0.35	<100 PPM	
CA70/9-96-0909-1141	-0.04	0.21	<15 PPM	-0.15	0.32	<100 PPM	
CA70/12-96-0923-1105	-0.27	0.10	<15 PPM	-0.13	0.66	<100 PPM	
CA70/13-96-0923-1106	-0.25	0.05	<15 PPM	-0.12	0.37	<100 PPM	
CA70/14-96-1009-1400	-0.07	0.22	<15 PPM	-0.24	0.27	<100 PPM	sump contents
CA70/15-96-1009-1401	-0.07	-0.61	>15 PPM	-0.24	-0.25	>100 PPM	tank contents

DATA SHEET
ENVIROGARD PETROLEUM FUELS (BTEX) IN SOIL TEST KIT

	OD VALUE
Negative Control	
10 ppm BTEX Calibrator	0.92
50 ppm BTEX Calibrator	0.63
300 ppm BTEX Calibrator	0.14

SAMPLE ID	OD VALUE	INTERPRETATION
CA70/1-96-0906-1200	0.46	>50 <300 PPM BTEX
CA70/2-96-0906-1200	0.75	>10 <50 PPM BTEX
CA70/3-96-0906-1200	0.06	>300 PPM BTEX
CA70/4-96-0906-1205	0.66	>10 <50 PPM BTEX
CA70/5-96-0906-1205	0.08	>300 PPM BTEX
CA70/6-96-0906-1205	0.09	>300 PPM BTEX
CA70/8-960909-1140	0.78	>10 < 50 PPM BTEX
CA70/9-96-0909-1141	0.72	>10 <50 PPM BTEX

DATA SHEET
ENVIROGARD PETROLEUM FUELS (BTEX) IN SOIL TEST KIT

	OD VALUE
Negative Control	
10 ppm BTEX Calibrator	1.34
50 ppm BTEX Calibrator	1.05
300 ppm BTEX Calibrator	0.50

SAMPLE ID	OD VALUE	INTERPRETATION
CA70/12-96-0923-1105	1.46	< 10 PPM BTEX
CA70/12-96-0923-1106	1.45	< 10 PPM BTEX

DATA SHEET
ENVIROGARD PETROLEUM FUELS (BTEX) IN SOIL TEST KIT

	OD VALUE
Negative Control	0.86
10 ppm BTEX Calibrator	0.80
50 ppm BTEX Calibrator	0.59
300 ppm BTEX Calibrator	0.27

SAMPLE ID	OD VALUE	INTERPRETATION
CA70/14-96-1009-1400	0.59	>10 <50 PPM BTEX
CA70/15-96-1009-1401	0.60	>10 <50 PPM BTEX

SSAIGAI ANALYTICAL LABORATORIES

Chain of Cus dy Record

Lab job no.: _____ D. _____

Page _____ of _____

7300 JEFFERSON, N.E.
ALBUQUERQUE, NEW MEXICO
(505) 345-8964

3332 WEDGEWOOD
EL PASO, TEXAS 79925
(915) 593-6000

1910 N. SPRING
MIDLAND, TEXAS 79705
(915) 570-1116

MELQUIADES ALANIS
6411 LOCAL UNO
CIUDAD JUAREZ, CHIHUAHUA MEXICO 32320

Client: Cheyenne / LCT-2

Project Manager / Contact: Mike Landgraf

Address: 1712 S Prince St

Telephone No.: (505) 763-1410

City / State / Zip: CLOVIS NM 88101

Fax No.: (505) 769-0780

Project Name / Number: OWS Removal

Samplers: (Signature)

Contract / Purchase Order / Quote: DACH97-95-D-0035

AAL FRACTION NUMBER	Field Sample Number / Location	Date	Time	Sample Type	Type / Size of Container	Preservation Temp.	Preservation Chemical	No. of Containers		TPH 8015	VOC's 8260	SVOC's 8270	TAL RCRA Metals	BTEX 8020				Remarks
	CA70/7-96-0906-1210	9/6/96	1210	soil	3:8oz, 1 4oz		ICE	4		X	X	X	X					
	CA70/3-96-0906-1200	9/6/96	1200	soil	1, 4oz		ICE	1		X				X				

Relinquished by:
Signature: [signature]
Printed: Troy Marcelo
Company: Chey
Reason: Shipment
Date: 9/7/96
Time: 9:05AM

Received by:
Signature: [signature]
Printed: SAL Garza
Company: TRITO
Reason: Shipment

Relinquished by:
Signature:
Printed:
Company:
Reason:
Date:
Time:

Received by:
Signature:
Printed:
Company:
Reason:

Method of Shipment: Bus
Shipment No.:
Special Instructions:

Comments:

After analysis, samples are to be:
- ☐ Disposed of (additional fee)
- ☐ Stored (30 days max)
- ☐ Stored over 30 days (additional fee)
- ☐ Returned to customer

FIELD FILE

TNM&O

1313 13th Street
Lubbock, TX 79401

082

MO	DAY	YEAR	TIME	AM	PM	FORWARDING AGENCY NO.	FORWARDING AGENT'S INITIALS	PICK-UP AGENT I.D.	DELIVERY AGENT I.D.	DESTINATION AGENCY NO.
9	7	97								

BUSBILL NUMBER
DO NOT WRITE IN THIS AREA

901 552 103 1

DESTINATION STATION CITY & STATE: Albuquerque

ZIP: NM

To (Recipient's Name): Assign Analytical Labs

Exact Street Address Cannot deliver to P.O. Box or Zip Code: NTW: Dan Moore

City: 7300 Kirtland

State:

Zip:

kage Express Account No.

Recipient's Phone Number (Very Important): (821-1834

Shipper's Phone Number (Very Important): ( ) -

Shipper's Package Express Account No.

From (Shipper's Name): Cheyenne - Bldg Contractor

Exact Street Address Cannot deliver to P.O. Box or Zip Code:

City: Clovis

State: NM

Zip:

SHIPPER'S RECEIPT - 1

INTERLINE INFORMATION

Carrier Code	City	Schedule #

SERVICE REQUIRED: NBO | SAME DAY | OVER-NIGHT | STD

PAYMENT: BILL PKG EXPRESS ACCOUNT | CASH | BILL 3RD PARTY | BILL CRDT CARD

X X = ÷ 200 =

DIMENSIONAL WEIGHT COMPUTATION — DIMENSIONAL WGT. LBS.

NO. OF PIECES	ACTUAL WEIGHT LBS.	DECLARED VALUE $
1	11	

CONTENTS: 15 U

CARTON DESCRIPTION:

	DEL. REQ'D	RATE ZONE	C.O.D

PREPAID	CHARGES	COLLECT
$.	EXPRESS	9.0
.	REFWD	.
.	VALUE	.
.	COLLECT / C.O.D. FEE	.95
.	SUB TOTAL	10.05
.	PICK-UP	.
.	DELIVERY	.
.	TAX	.50
	C.O.D. AMOUNT	.
$.	TOTAL	$ 10.55

(NOT NEGOTIABLE) SUBJECT TO TARIFF REGULATIONS LIABILITY: This Carrier will not pay loss or damage claims over $100 per shipment or $50 package, whichever is greater, unless a greater value is declared and charges for such greater value paid. Maximum valuation on any one shipment is lim by tariff. (See Tariff for Intrastate exceptions). In no event shall the Carrier be liable for **consequential** or **incidental** damage for loss, damage or delay.

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EL PASO, TEXAS 79925
(915) 593-6000

1910 N. SPRING
MIDLAND, TEXAS 79705
(915) 570-1116

MELQUIADES ALANIS
6411 LOCAL UNO
CIUDAD JUAREZ, CHIHUAHUA MEXICO 32320

Lab job no.: _____ L _____

Page _____ of _____

Client: Chevron/LCI-2 INC.

Address: 1712 Pierce St

City / State / Zip: Moore NM 88101

Project Name / Number: Ave Ranch/ACH97-55-U-0025

Contract / Purchase Order / Quote: Dan Moore

Project Manager / Contact: Mike Lanfort

Telephone No.: (505) 769-9216

Fax No.: (505) 769-0756

Samplers: (Signature)

Analysis Required

AAL Fraction Number	Field Sample Number / Location	Date	Time	Sample Type	Type / Size of Container	Preservation Temp.	Preservation Chemical	No. of Containers	TPH 8015 MOD	BTEX 8260	SVOCs 8270	Pb/Cd/Cr/Ni/Zn/Cu/Fe/Mn/Hg/Se/As/Ag/Tl						Remarks
	CH70/10-96-0910-1030	9/10/96	10:30	soil	8oz glass	ice		1	X	X	X	X						confirmatory sample
	CH70/11-96-0910-1031	9/10/96	10:31	soil	8oz glass	ice		1	X	X	X	X						"

OFFICE USE ONLY

Relinquished by:	Date	Received by:	Relinquished by:	Date	Received by:
Signature: [signature]	9/10/96	Signature: [signature]	Signature:		Signature:
Printed: Tracy Moore	Time: 7:30 pm	Printed: [illegible]	Printed:	Time	Printed:
Company: Chevron		Company: TPM	Company:		Company:
Reason: shipment		Reason: Supp	Reason:		Reason:

Method of Shipment: bus

Shipment No.:

Special Instructions:

Comments:

After analysis, samples are to be:

- ☐ Disposed of (additional fee)
- ☐ Stored (30 days max)
- ☐ Stored over 30 days (additional fee)
- ☐ Returned to customer

FIELD FILE

ASSAIGAI ANALYTICAL LABORATORIES

Chain of Custody Record

7300 JEFFERSON, N.E.
ALBUQUERQUE, NEW MEXICO 87109
(505) 345-8964

3332 WEDGEWOOD
EL PASO, TEXAS 79925
(915) 593-6000

1910 N. BIG SPRING
MIDLAND, TEXAS 79705
(915) 570-1116

MELQUIADES ALANIS
6411 LOCAL UNO
CIUDAD JUAREZ, CHIHUAHUA MEXICO 32320

Lab job no.: _____ Date _____

Page _____ of _____

Client: Cheyenne / LCI-2

Address: 1112 S Prince St

City / State / Zip: CLOVIS NM 88101

Project Name / Number: DACA47-95-D-0035

Contract / Purchase Order / Quote: DAN MOORE

Project Manager / Contact: Mike Landgraf

Telephone No.: 505-763-1410

Fax No.: 505-769-0780

Samplers: (Signature)

Analysis Required

Field Sample Number / Location	Date	Time	Sample Type	Type / Size of Container	Preservation Temp.	Preservation Chemical	No. of Containers	TPH method 8015	VOCs method 8260	SVOCs method 8270	TAL Metals	Extractable Organics					Remarks
CA70/17-96-0916-1155	09/16/96	11:55	soil	1:402, 3:8oz glass		ICE	4	X	X	X	X						excavated material confirmatory samples
CA62/9-96-0916-1140	"	1140	soil	"		"	4	X	X	X	X						
CA61/9-96-0916-1150	"	1150	soil	"		"	4	X	X	X	X						
CA63/8-96-0916-1329	"	13:29	soil	"		"	4	X	X	X	X						
CA38/1-96-0916-1330	"	13:30	soil	"		"	4	X	X	X	X						

FOR OFFICE USE ONLY

Relinquished by:	Date	Received by:	Relinquished by:	Date	Received by:
Signature: [signature]	9/16/96	Signature: [signature]	Signature:		Signature:
Printed: Troy McRalee	Time	Printed: S N Gonzales	Printed:	Time	Printed:
Company: Cheyenne / LCI-2	15:53	Company: TAMTC	Company:		Company:
Reason: Shipment		Reason: Shipment	Reason:		Reason:

Method of Shipment: _____

Shipment No. _____

Special Instructions: _____

Comments: _____

After analysis, samples are to be:

- ☐ Disposed of (additional fee)
- ☐ Stored (30 days max)
- ☐ Stored over 30 days (additional fee)
- ☐ Returned to customer

FIELD

CHEYENNE BUILDING CONTRACTORS, INC.
QUALITY CONTROL FIELD NOTES
UNIT REMOVAL AT CANNON AFB, NM
CONTRACT NO.: DACA47-95-D-0035

DATE: 9/19/96
TIME: 700
WEATHER: chilly
TEMP.: 70°

UNIT INFORMATION

Unit Owner: U.S. Army Corp of Engineers Phone No.: 505-784-4351

Address: P.O. Box 1580 Albuquerque, NM 87103

Bldg. No.: 194 SWMU No.: 38

Date Installed: 1971 Date Last Used: 9-19-96

Units Association with Facility: Solid waste management unit

Unit Width: 9' Unit Length: 7' Unit Depth: 12'

Unit Contents: Contaminated water, oil + sludge Gallons Removed: 1,402.5 Hzo, 104.5 gal. oil/sludge

Type of Ground Cover: Asphalt

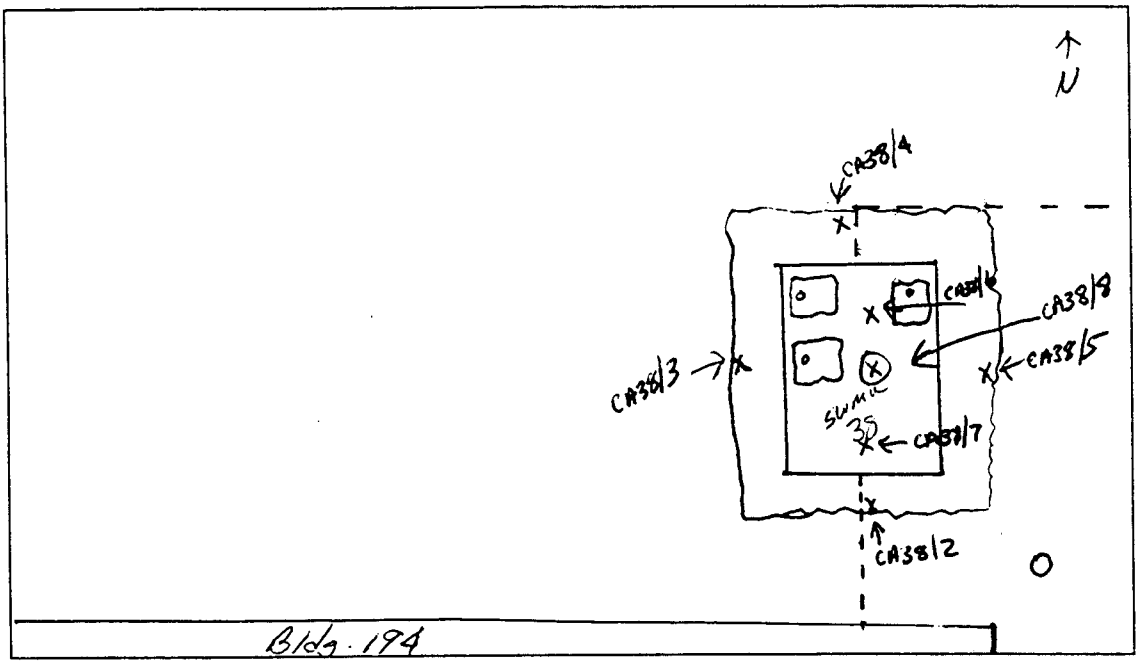
Petroleum Odors: YES ☐ NO ☒

Visual Characterization of Soil: Clean

Evidence of a Spill: YES ☐ NO ☒

Other Potential Sources of Contamination: leaking pipes

SKETCH:



CA38/2 thru CA38/7: Field Screening samples

CA38/8: Confirmatory sample

CA38/1: Confirmatory sample for Excavated material

CA38/4 & CA38/5: Correlation samples

Notification for Underground Storage Tanks

UST BUREAU/EID
1190 St. Francis Drive
Santa Fe, NM 87503

Form Approved
OMB No. [illegible]
Approval Expires [illegible]

I.D. Number

STATE USE ONLY

Date Received

GENERAL INFORMATION

Notification is required by Federal law for all underground tanks that have been used to store regulated substances since January 1, 1974, that are in the ground as of May 8, 1986, or that are brought into use after May 8, 1986. The information requested is required by Section 9002 of the Resource Conservation and Recovery Act (RCRA), as amended.

The primary purpose of this notification program is to locate and evaluate underground tanks that store or have stored petroleum or hazardous substances. It is expected that the information you provide will be based on reasonably available records, or, in the absence of such records, your knowledge, belief, or recollection.

Who Must Notify? Section 9002 of RCRA, as amended, requires that, unless exempted, owners of underground tanks that store regulated substances must notify designated State or local agencies of the existence of their tanks. Owner means—

(a) in the case of an underground storage tank in use on November 8, 1984, or brought into use after that date, any person who owns an underground storage tank used for the storage, use, or dispensing of regulated substances, and

(b) in the case of any underground storage tank in use before November 8, 1984, but no longer in use on that date, any person who owned such tank immediately before the discontinuation of its use.

What Tanks Are Included? Underground storage tank is defined as any one or combination of tanks that (1) is used to contain an accumulation of "regulated substances," and (2) whose volume (including connected underground piping) is 10% or more beneath the ground. Some examples are underground tanks storing: 1. gasoline, used oil, or diesel fuel, and 2. industrial solvents, pesticides, herbicides or fumigants.

What Tanks Are Excluded? Tanks removed from the ground are not subject to notification. Other tanks excluded from notification are:

1. farm or residential tanks of 1,100 gallons or less capacity used for storing motor fuel for noncommercial purposes;
2. tanks used for storing heating oil for consumptive use on the premises where stored;
3. septic tanks;
4. pipeline facilities (including gathering lines) regulated under the Natural Gas Pipeline Safety Act of 1968, or the Hazardous Liquid Pipeline Safety Act of 1979, or which is an intrastate pipeline facility regulated under State laws;
5. surface impoundments, pits, ponds, or lagoons;
6. storm water or wastewater collection systems;
7. flow-through process tanks;
8. liquid traps or associated gathering lines directly related to oil or gas production and gathering operations;
9. storage tanks situated in an underground area (such as a basement, cellar, mineworking, drift, shaft, or tunnel) if the storage tank is situated upon or above the surface of the floor.

What Substances Are Covered? The notification requirements apply to underground storage tanks that contain regulated substances. This includes any substance defined as hazardous in section 101 (14) of the Comprehensive Environmental Response, Compensation and Liability Act of 1980 (CERCLA), with the exception of those substances regulated as hazardous waste under Subtitle C of RCRA. It also includes petroleum, e.g., crude oil or any fraction thereof which is liquid at standard conditions of temperature and pressure (60 degrees Fahrenheit and 14.7 pounds per square inch absolute).

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Penalties: Any owner who knowingly fails to notify or submits false information shall be subject to a civil penalty not to exceed $10,000 for each tank for which notification is not given or for which false information is submitted.

INSTRUCTIONS

Please type or print in ink all items except "signature" in Section V. This form must by completed for each location containing underground storage tanks. If more than 5 tanks are owned at this location, photocopy the reverse side, and staple continuation sheets to this form.

Indicate number of continuation sheets attached: [ ]

I. OWNERSHIP OF TANK(S)

Owner Name (Corporation, Individual, Public Agency, or Other Entity): 27th CE/CEUP

Street Address: 111 Engineers Way

County: Cannon AFB

City: Curry | State: NM | ZIP Code: 88103

Area Code: (505) | Phone Number: 784-6022

Type of Owner (Mark all that apply ☒)

- [ ] Current
- [ ] Former
- [ ] State or Local Gov't
- [x] Federal Gov't (GSA facility I.D. no. SWMU 38)
- [ ] Private or Corporate
- [ ] Ownership uncertain

II. LOCATION OF TANK(S)

(If same as Section 1, mark box here [ ])

Facility Name or Company Site Identifier, as applicable: Bldg. 194

Street Address or State Road, as applicable: CANNON AFB

County: Curry

City (nearest) | State: NM | ZIP Code: 88103

Indicate number of tanks at this location: 1

Mark box here if tank(s) are located on land within an Indian reservation or on other Indian trust lands: [ ]

III. CONTACT PERSON AT TANK LOCATION

Name (If same as Section I, mark box here [ ]): Troy Montez

Job Title: CQC Chaverine Bldg. Cont.

Area Code: (505) | Phone Number: 763-1410

IV. TYPE OF NOTIFICATION

[ ] Mark box here only if this is an amended or subsequent notification for this location.

V. CERTIFICATION (Read and sign after completing Section VI.)

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete.

Name and official title of owner or owner's authorized representative	Signature	Date Signed

CONTINUE ON REVERSE SIDE

NK CLOSURE WORKSHEET
(COMPLETE AFTER CLOSURE)

Tank Owner 27th CE/CEVP Phone 505-784-6022
Mailing Address 111 Engineers Way Cannon AFB 88103
Tank Address Bldg. 194
Contractor Name Cheyenne Phone 765-9019
Address POBOX 418
Contractor Name _____ Phone _____
Address _____

Tank Closure Date 9-19-96 # of Tanks Closed 1

****

I. Tank Closure Initial Procedures (check measures complied with):

- ✓ Obtain recommended safety equipment for all personnel
- ✓ Contact Fire Marshall or other fire officials
- ✓ Bond or ground equipment
- ✓ Drain product from piping and tank
- ✓ Disconnect, then cap or remove piping
- ✓ Remove all residual product from tank
- ✓ Excavate to tank top
- ✓ Remove all tank fixtures
- ✓ Properly purge or inert tank of all flammable vapors using approved method
- ✓ Continually monitor for explosive vapors while tank is being removed

II. Tank Removal

- ✓ Create vent hole
- ✓ Excavate tank using all safety precautions
- ✓ Clean and inspect tank
- ✓ Check excavation for evidence of leaks and notify EID and other proper authorities if leak is found
- ✓ Check vapor levels in tank before transporting
- ✓ Dispose of tank in approved manner

Tank disposal location City landfill (City) CLOVIS (State) NM 88101

How did you assess site for leakage? Field Screening / Lab analysis
Closure report kept at Above Address
NOTE: Immediately report any evidence of leakage to EID at 827-0188

I hereby state that the above information is correct

[signature] CPC Cheyenne Bldg. Cont.
Signature of owner or contractor performing work

****

FOR EID USE ONLY
Notification Received _____ Approved By _____
Inspection Date _____ Inspector _____

CHEYENNE
BUILDING CONTRACTORS INC.

P.O. BOX 418
LOVIS, NEW MEXICO 88102-0418
(505) 769-9019 • FAX (505) 769-2588

GB98
LIC. NO. 30759

CERTIFICATE OF VAPOR TESTING

DATE 9-19-96

TANK OWNER 27th CE/CEVP PHONE 784-6022

ADDRESS 111 Engineers Way Cannon AFB 88103

CONTRACTOR REMOVING TANK Cheyenne

ADDRESS PO BOX 418 PHONE 769-9019

CHEYENNE BUILDERS IS CERTIFIED CONTRACTOR IN VAPOR TESTING.

I Troy Morales HEREBY CERTIFY THAT ~~TANK~~ summer 38 AT Bldg. 194 IS FREE FROM COMBUSTIBLE MATERIAL.

TROY MORALEZ

MIKE LANDGRAF

SAMPLE INFORMATION

Sample ID No.: CA38/1-96-0916-1330

Sample Depth: Composite Sample Matrix: Soil

Sample Location: Excavated material stockpile

Sample Purpose: Confirmatory for disposal

Number of Samples Taken: 2 Preservatives Used: ICE

Sample Method: Headspace, Immunoassay TPH+BTEX, 6010+7470 using 1311 Extr.

Headspace Analysis: 0.0 PPM

Contaminated Action Level: >100 PPM TPH + >50 PPM BTEX

SAMPLE INFORMATION

Sample ID No.: CA38/8-96-0930-0805

Sample Depth: 14' Sample Matrix: Soil

Sample Location: Bottom of Excavation

Sample Purpose: Confirmatory Closure

Number of Samples Taken: 4 Preservatives Used: ICE

Sample Method: 8015, 8260, 8270, 6010+7470 using 1311 Extraction

Headspace Analysis: NT

Contaminated Action Level:

SAMPLE INFORMATION

Sample ID No.: CA38/2-96-0930-0800, CA38/3-96-0930-0801, CA38/4-96-0930-0802
CA38/5-96-0930-0803

Sample Depth: 12' Sample Matrix: Soil

Sample Location: sides of excavation

Sample Purpose: Field Screening

Number of Samples Taken: 4 Preservatives Used: ICE

Sample Method: Headspace, Immnoassay TPH + BTEX

Headspace Analysis: CA38/2 = 0.0PPM, CA38/3 = 0.0 PPM, CA38/4 = 0.1 PPM, CA38/5 = 0.0PPM

Contaminated Action Level: >100 PPM TPH, >50 PPM BTEX

SAMPLE INFORMATION

Sample ID No.: CA38/6-96-0930-0804, CA38/7-96-0930-0805

Sample Depth: 14' Sample Matrix: Soil

Sample Location: Bottom of excavation

Sample Purpose: Field Screening

Number of Samples Taken: 2 Preservatives Used: ICE

Sample Method: Headspace, Immnoassay TPH + BTEX

Headspace Analysis: CA38/6 = 0.0 PPM + CA38/7 = 0.1 PPM

Contaminated Action Level: >100 PPM TPH + >50 PPM BTEX

SAMPLE INFORMATION

Sample ID No.: CA38/4-96-0930-0802

Sample Depth: 12' Sample Matrix: Soil

Sample Location: side of excavation

Sample Purpose: Field Screening / lab analysis correlation

Number of Samples Taken: 2 Preservatives Used: ICE

Sample Method: 8015 + 8020

Headspace Analysis: 0.1 PPM

Contaminated Action Level: >100 PPM TPH + >50 PPM BTEX

SAMPLE INFORMATION

Sample ID No.: CA38/5-96-0930-0803

Sample Depth: 12' Sample Matrix: Soil

Sample Location: side of excavation

Sample Purpose: Field Screening / lab analysis correlation

Number of Samples Taken: _____ Preservatives Used: _____

Sample Method: _____

Headspace Analysis: 0.0 PPM

Contaminated Action Level: >100 PPM TPH + >50 PPM BTEX

Data Sheet for PETRO RISC® SamplePro Test

Immunoassay According to method 4030

Operator: Troy Morales Date: 09/23/96 Location: SWMU 38

Sample ID	Low Test Level ΔOD	Low Test Level OD sample	Low Test Level Interpretation	High Test Level ΔOD	High Test Level OD sample	High Test Level Interpretation	Comments
TPH	Standards	15 ppm		Standards	100 ppm		
CA38/1-96-0923-1101	-0.06	0.67	< 15 ppm	-0.05	0.43	< 100 ppm	< 15 ppm TPH
CA38/1 BTEX	1.48	< 10 ppm BTEX		10 ppm 1.34, 50 ppm 1.05, 300 ppm 0.50			< 10 ppm BTEX
CA38/2-96-0930-800	-0.0	0.19	< 15 PPM	-0.16	0.60	< 100 PPM	
CA38/3-96-0930-0801	-0.0	0.69	< 15 PPM	-0.16	0.61	< 100 PPM	
CA38/4-96-0930-0802	-0.0	0.46	< 15 PPM	-0.16	0.50	< 100 PPM	
CA38/5-96-0930-0803	-0.0	0.71	< 15 PPM	-0.16	0.49	< 100 PPM	
CA38/6-96-0930-0804	-0.07	1.15	< 15 PPM	-0.02	0.30	< 100 PPM	
CA38/7-96-0930-0805	-0.07	0.43	< 15 PPM	-0.02	0.50	< 100 PPM	

DATA SHEET
ENVIROGARD PETROLEUM FUELS (BTEX) IN SOIL TEST KIT

	OD VALUE
Negative Control	1.55
10 ppm BTEX Calibrator	1.26
50 ppm BTEX Calibrator	1.04
300 ppm BTEX Calibrator	0.56

SAMPLE ID	OD VALUE	INTERPRETATION
CA38/2-96-0930-0800	1.28	< 10 PPM BTEX
CA38/3-96-0930-0801	1.21	> 10 PPM < 50 PPM BTEX
CA38/4-96-0930-0802	1.15	> 10 PPM < 50 PPM BTEX
CA38/5-96-0930-0803	1.19	> 10 PPM < 50 PPM BTEX
CA38/6-96-0930-0804	1.29	< 10 PPM BTEX
CA38/7-96-0930-0805	1.26	< 10 PPM BTEX

DATA SHEET
ENVIROGARD PETROLEUM FUELS (BTEX) IN SOIL TEST KIT

	OD VALUE
Negative Control	
10 ppm BTEX Calibrator	1.34
50 ppm BTEX Calibrator	1.05
300 ppm BTEX Calibrator	0.50

SAMPLE ID	OD VALUE	INTERPRETATION
CA38/1-96-0923-1101	1.48	<10 PPM BTEX

EXCAVATION CHECK LIST

Company Cheyenne Bldg. Co. & INC.	Date 9-19-96
Site Location/Description Bldg. 194 SWMU 38	Time 06:50 ☒ AM ☐ PM
Inspected by Troy Moralez	Project Number DACA47-95-D-0035

RUCTIONS: Read the ITEM NUMBER and DESCRIPTION to determine the current conditions of this excavation site. Mark an (X) in the YES column if description is present and has been satisfied. Mark an (X) in the NO column if the item has not been completed. Mark a line (–) across the YES and No columns if the ITEM does not apply. Use the NOTES section to list the ITEM NUMBER. Write any comments that apply to the ITEM NUMBER.

Item No.	DESCRIPTION	YES	NO	Item No.	DESCRIPTION	YES	NO
1	The utility company has been notified of excavation work schedule.	X		19	Employees working below other employees in trench are protected from hazards.	X	
2	Location of underground utility lines are identified.	X		20	The trench is free of standing water.	X	
3	Hazardous objects have been removed from excavation area or blocked securely.	X		21	The proper water removal equipment is operating under guidance of competent person.	X	
4	Soil type is classified.	X		22	Diversion ditches or dikes are in place to prevent surface water from entering trench.	X	
5	Sloping and Benching system is designed per OSHA requirements.	X		23	The trench is inspected by competent person following any amount of rain.	X	
6	Timber shoring system is designed per OSHA requirements.	NA		24	Employees are wearing proper safety equipment.	X	
7	Aluminum Hydraulic shoring system is designed per OSHA requirements.	NA		25	Test air quality in trench if a hazardous atmosphere is suspected.	X	
8	Shielding system is designed per OSHA requirements.	NA		26	A ventilation or respiratory protection is in use.	X	
9	Shields are free from damage or defects.	NA		27	Protective support systems are installed from the top down.	X	
10	Employees are protected from cave-ins when entering and exiting the shield.	NA		28	Protective support systems are dismantled from the bottom up.	X	
	When a combination of sloping and shielding is used, the shield must extend 18 inches above the bottom slope of the excavation.	X		29	Excavation is backfilled as the protective system is dismantled.	X	
12	A ladder is provided and secured in trench four or more feet deep; top of ladder extending at least 36 inches above edge of trench.	X		30	Heavy equipment is mounted on wooden mats to distribute weight.	X	
13	A ladder is within 25 feet of all employees working in trench	X		31	Damaged materials or equipment are removed from service.	X	
14	Excavated material is stored at least two feet from the edge of the excavation.	X		32	An emergency response program is in place.	X	
15	Employees are protected from loose material which could fall into trench.	X		33	Life support equipment is in working order.	X	
16	A competent person inspects the trench prior to the start of the shift.	X		34	Note other conditions. GGI = < 2% LEL		
17	The location of trench is marked by banners, barricades or other signals.	X		35	VOC's = 0.0 ppm Oxy. = 19.5		
18	Bridges or walkways over excavations are equipped with guardrails and toeboards.	NA		36			

Notes:

© 1993 J.J. KELLER & ASSOCIATES, INC. Neenah, WI 54957-0368
To Reorder Call: 1-800-327-6868

ASSAIGAI ANALYTICAL LABORATORIES

Chain of Custody Record

7300 JEFFERSON, N.E.
ALBUQUERQUE, NEW MEXICO 87109
(505) 345-8964

3332 WEDGEWOOD
EL PASO, TEXAS 79925
(915) 593-6000

1910 N. BIG SPRING
MIDLAND, TEXAS 79705
(915) 570-1116

MELQUIADES ALANIS
6411 LOCAL UNO
CIUDAD JUAREZ, CHIHUAHUA MEXICO 32320

Lab Job no.: _____ Date _____

Page _____ of _____

Client: Cheyenne / LCI-2

Address: 1712 S Prince St

City / State / Zip: CLOVIS NM 88101

Project Name / Number: DNCHA7-95-D-0035

Contract / Purchase Order / Quote: DHA MOORE

Project Manager / Contact: Mike Lawler F

Telephone No.: 505-763-1910

Fax No.: 505-769-0780

Samplers: (Signature)

Analysis Required

Field Sample Number / Location	Date	Time	Sample Type	Type / Size of Container	Preservation Temp.	Preservation Chemical	No. of Containers	TRH method 8015	VOC's method 8260	SVOC's method 8270	THC screen methods	Extractable organics method 1311					Remarks
CA70/17-96-0916-1155	09/16/96	11:55	soil	1:402, 3:8oz glass		ICE	4	X	X	X	X						
CA62/9-96-0916-1140	"	1140	soil	"		"	4	X	X	X	X						
CA61/9-96-0916-1150	"	1150	soil	"		"	4	X	X	X	X						
CA63/8-96-0916-1329	"	13:29	soil	"		"	4	X	X	X	X						
CA38/1-96-0916-1330	"	13:30	soil	"		"	4	X	X	X	X						

excavated material confirmatory samples

Relinquished by:	Date	Received by:	Relinquished by:	Date	Received by:
Signature: [signature]	9/16/96	Signature: [signature]	Signature:		Signature:
Printed: Troy Nickalet	Time 15:53	Printed: S N Gonzales	Printed:	Time	Printed:
Company: Cheyenne / LCI-2		Company: TNMTC	Company:		Company:
Reason: Shipment		Reason: Shipment	Reason:		Reason:

Method of Shipment: _____

Shipment No. _____

Special Instructions: _____

Comments: _____

After analysis, samples are to be:

- ☐ Disposed of (additional fee)
- ☐ Stored (30 days max)
- ☐ Stored over 30 days (additional fee)
- ☐ Returned to customer

FIELD

ASSAIGAI ANALYTICAL LABORATORIES

Chain of Custody Record

7300 JEFFERSON, N.E.
ALBUQUERQUE, NEW MEXICO 87109
(505) 345-8964

3332 WEDGEWOOD
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1910 N. BIG SPRING
MIDLAND, TEXAS 79705
(915) 570-1116

MELQUIADES ALANIS
6411 LOCAL UNO
CIUDAD JUAREZ, CHIHUAHUA MEXICO 32320

Lab job no.: _____ Date _____

Page _____ of _____

Client: Chevron / CCI-2

Address: 1712 Springist Alamogordo

City / State / Zip: Cloudcroft NM 88101

Project Name / Number: DACH47-95-D-0035

Contract / Purchase Order / Quote: Dan Moore

Project Manager / Contact: Mike Lankford

Telephone No.: 505-763-1410

Fax No.: 505-769-0780

Samplers: (Signature) [signature]

Field Sample Number / Location	Date	Time	Sample Type	Type / Size of Container	Preservation Temp.	Preservation Chemical	No. of Containers	TPH 8015-1001	BTEX 8260	SVOC 8270	Pesticides 7000 Series 8081 Extractable	PHEN 8020					Comments
CA39/7-96-0930-1334	9/30/96	1334	soil	1-4oz + 3-4oz glass	ice		4	X	X	X	X						Confirmatory
CA38/8-96-0930-0805	9/30/96	8:05	soil	1 4oz + 3 4oz glass	ICE		4	X	X	X	X						confirmatory
CA39/8-96-0930-1000	9/30/96	10:00	soil	1 4oz glass	ICE		1				X						confirmatory / excavated material
CA38/4-96-0930-0802	9/30/96	8:02	soil	1 4oz glass			1	X				X					correlation Highest
CA38/5-96-0930-0803	9/30/96	8:03	soil	1 4oz glass			1	X				X					correlation 1 of 10
CA39/5-96-0930-1337	9/30/96	13:37	soil	1 4oz glass			1	X				X					correlation

Relinquished by:	Date / Time	Received by:	Relinquished by:	Date / Time	Received by:
Signature: [signature]	9/30/96	Signature: [signature]	Signature:		Signature:
Printed: Troy Moulder		Printed: SN Garcia Co	Printed:		Printed:
Company: Chev		Company: TMO Carlsbad	Company:		Company:
Reason: Shipment		Reason: Shipment	Reason:		Reason:

Method of Shipment: Bus

Shipment No.: _____

Special Instructions: _____

Comments: _____

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FIELD

CHEYENNE BUILDING CONTRACTORS, INC.
QUALITY CONTROL FIELD NOTES
UNIT REMOVAL AT CANNON AFB, NM
CONTRACT NO.: DACA47-95-D-0035

DATE: 9/20/96
TIME: 9:00 AM
WEATHER: Mild
TEMP.: 78°

UNIT INFORMATION

Unit Owner: U.S. Army Corp of Engineers Phone No.: 505-784-4351

Address: P.O. Box 1580 Albuquerque, NM 87103

Bldg. No.: 196 SWMU No.: 46

Date Installed: 1969 Date Last Used: 1996

Units Association with Facility: Solid Waste Management Unit for bldg. 196

Unit Width: 9' Unit Length: 7' Unit Depth: 8.5'

Unit Contents: Cont. H2O / waste oil-sludge Gallons Removed: 905

Type of Ground Cover: Asphalt

Petroleum Odors: YES ☐ NO ☒

Visual Characterization of Soil: Clean

Evidence of a Spill: YES ☐ NO ☒

Other Potential Sources of Contamination: leaking pipes

Notification for Underground Storage Tanks

UST - BUREAU/EID
1190 St. Francis Drive
Santa Fe, NM 87503

STATE USE ONLY

ID. Number

Date Received

GENERAL INFORMATION

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2. tanks used for storing heating oil for consumptive use on the premises where stored;
3. septic tanks;
4. pipeline facilities (including gathering lines) regulated under the Natural Gas Pipeline Safety Act of 1968, or the Hazardous Liquid Pipeline Safety Act of 1979, or which is an intrastate pipeline facility regulated under State laws;
5. surface impoundments, pits, ponds, or lagoons;
6. storm water or wastewater collection systems;
7. flow-through process tanks;
8. liquid traps or associated gathering lines directly related to oil or gas production and gathering operations;
9. storage tanks situated in an underground area (such as a basement, cellar, mineworking, drift, shaft, or tunnel) if the storage tank is situated upon or above the surface of the floor.

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Street Address: 111 Engineers Way

County: Curry

City: Cannon AFB State: NM ZIP Code: 88103

Area Code: 505 Phone Number: 784-6022

Type of Owner (Mark all that apply ☒)

- [ ] Current
- [ ] Former
- [ ] State or Local Govt
- [x] Federal Govt (GSA facility I.D. no. SWME 46)
- [ ] Private or Corporate
- [ ] Ownership uncertain

II. LOCATION OF TANK(S)

(If same as Section 1, mark box here [ ])

Facility Name or Company Site Identifier, as applicable: Bldg. 196

Street Address or State Road, as applicable:

County: Curry

City (nearest): Cannon AFB State: NM ZIP Code: 88103

Indicate number of tanks at this location: 1

Mark box here if tank(s) are located on land within an Indian reservation or on other Indian trust lands: [ ]

III. CONTACT PERSON AT TANK LOCATION

Name (If same as Section I, mark box here [ ]): Troy Morales

Job Title: CQC Cheyenne Bldg. Cont. Inc.

Area Code: (505) Phone Number: 769-9019

IV. TYPE OF NOTIFICATION

[ ] Mark box here only if this is an amended or subsequent notification for this location.

V. CERTIFICATION (Read and sign after completing Section VI.)

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete.

Name and official title of owner or owner's authorized representative	Signature	Date Signed

CONTINUE ON REVERSE SIDE

TANK CLOSURE WORKSHEET
(COMPLETE AFTER CLOSURE)

Tank Owner 27th CE ICEUP Phone 505-784-6022
Mailing Address 111 Engineers Way CANNON AFB 88103
Tank Address Bldg 196 Swmp 46
Contractor Name Cheyenne Bldg-Contrs Phone 505-769-9019
Address PO BOX 418 CLOVIS NM 88101-418
Contractor Name _____ Phone _____
Address _____

Tank Closure Date 9/20/96 # of Tanks Closed 1

****

I. Tank Closure Initial Procedures (check measures complied with):

- ✓ Obtain recommended safety equipment for all personnel
- ✓ Contact Fire Marshall or other fire officials
- ✓ Bond or ground equipment
- ✓ Drain product from piping and tank
- ✓ Disconnect, then cap or remove piping
- ✓ Remove all residual product from tank
- ✓ Excavate to tank top
- ✓ Remove all tank fixtures
- ✓ Properly purge or inert tank of all flammable vapors using approved method
- ✓ Continually monitor for explosive vapors while tank is being removed

II. Tank Removal

- ✓ Create vent hole
- ✓ Excavate tank using all safety precautions
- ✓ Clean and inspect tank
- ✓ Check excavation for evidence of leaks and notify EID and other proper authorities if leak is found
- ✓ Check vapor levels in tank before transporting
- ✓ Dispose of tank in approved manner

Tank disposal location Closed In-Place
City State

How did you assess site for leakage? Field Screening / Lab Analysis
Closure report kept at 111 Engineers Way CANNON AFB 88103
NOTE: Immediately report any evidence of leakage to EID at 827-0188

I hereby state that the above information is correct

[signature] C&C Cheyenne.
Signature of owner or contractor performing work

****

FOR EID USE ONLY
Notification Received _____ Approved By _____
Inspection Date _____ Inspector _____

CHEYENNE
BUILDING CONTRACTORS INC.

P.O. BOX 418
LOVIS, NEW MEXICO 88102-0418
(505) 769-9019 • FAX (505) 769-2588

GB98
LIC. NO. 30759

CERTIFICATE OF VAPOR TESTING

DATE 9/20/96

TANK OWNER 27th CE/CEUP PHONE 784-6022

ADDRESS 111 Engineers Way Cannon AFB 88103

CONTRACTOR REMOVING TANK Cheyenne

ADDRESS PO BOX 418 PHONE 769-9019

CHEYENNE BUILDERS IS CERTIFIED CONTRACTOR IN VAPOR TESTING.

I Troy Moralez HEREBY CERTIFY THAT ~~TANK~~ Summer 96 AT Bldg. 196 IS FREE FROM COMBUSTIBLE MATERIAL.

TROY MORALEZ

MIKE LANDGRAF

EXCAVATION CHECK LIST

Company: Cheyenne Bldg. Cont. INC.	Date: 9/20/96
Site Location/Description: Bldg. 96 Summa 46	Time: 10:00 ☐AM ☐PM
Inspected by: Troy Morales CQC	Project Number: DACA47-95-D-0035

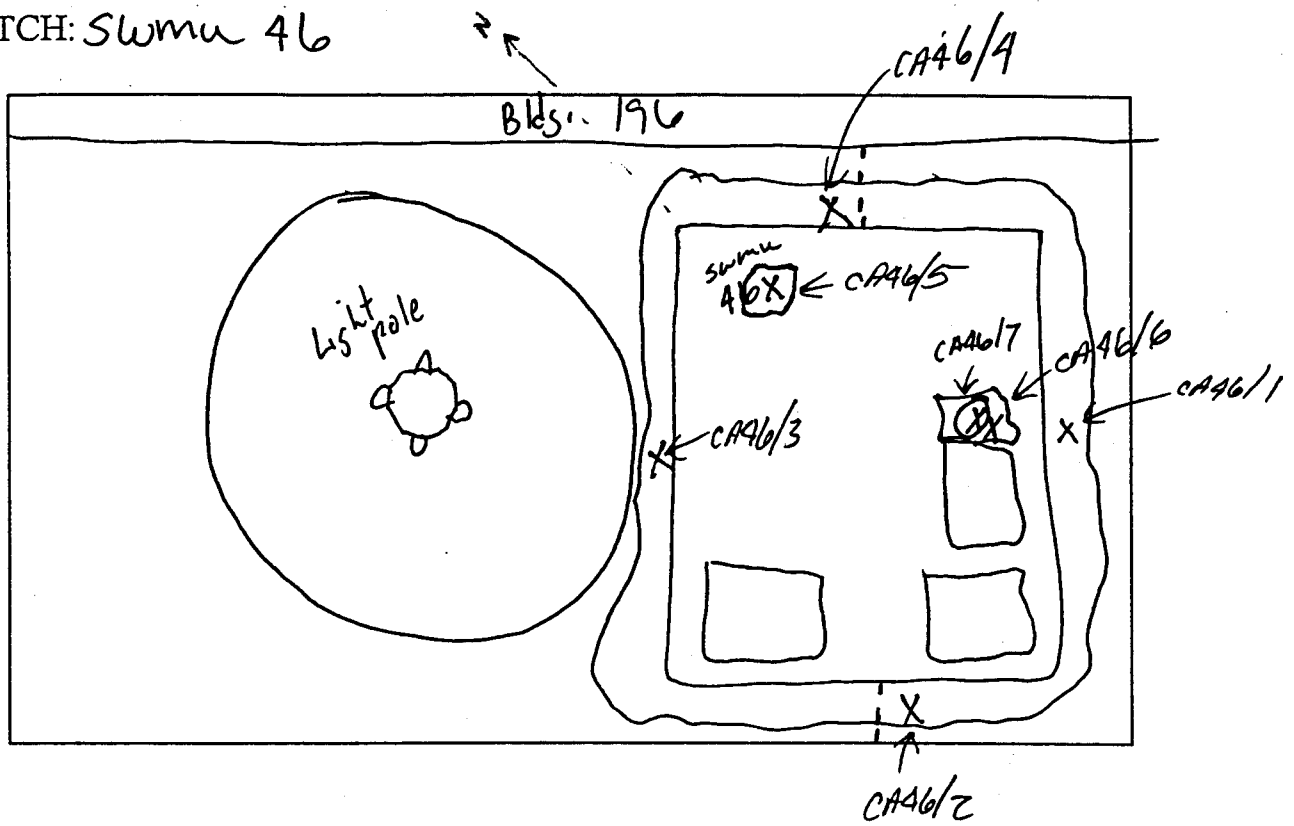
TRUCTIONS: Read the ITEM NUMBER and DESCRIPTION to determine the current conditions of this excavation site. Mark an (X) in the YES column if description is present and has been satisfied. Mark an (X) in the NO column if the item has not been completed. Mark a line (–) across the YES and No columns if the ITEM does not apply. Use the NOTES section to list the ITEM NUMBER. Write any comments that apply to the ITEM NUMBER.

Item	DESCRIPTION	YES	NO.	Item No.	DESCRIPTION	YES	NO
1	The utility company has been notified of excavation work schedule.	X		19	Employees working below other employees in trench are protected from hazards.	X	
2	Location of underground utility lines are identified.	X		20	The trench is free of standing water.	X	
3	Hazardous objects have been removed from excavation area or blocked securely.	X		21	The proper water removal equipment is operating under guidance of competent person.	X	
4	Soil type is classified.	X		22	Diversion ditches or dikes are in place to prevent surface water from entering trench.	X	
5	Sloping and Benching system is designed per OSHA requirements.	NA		23	The trench is inspected by competent person following any amount of rain.	X	
6	Timber shoring system is designed per OSHA requirements.	NA		24	Employees are wearing proper safety equipment.	X	
7	Aluminum Hydraulic shoring system is designed per OSHA requirements.	NA		25	Test air quality in trench if a hazardous atmosphere is suspected.	X	
8	Shielding system is designed per OSHA requirements.	X		26	A ventilation or respiratory protection is in use.	X	
9	Shields are free from damage or defects.	X		27	Protective support systems are installed from the top down.	X	
10	Employees are protected from cave-ins when entering and exiting the shield.	X		28	Protective support systems are dismantled from the bottom up.	X	
	When a combination of sloping and shielding is used, the shield must extend 18 inches above the bottom slope of the excavation.	X		29	Excavation is backfilled as the protective system is dismantled.	X	
12	A ladder is provided and secured in trench four or more feet deep; top of ladder extending at least 36 inches above edge of trench.	X		30	Heavy equipment is mounted on wooden mats to distribute weight.	X	
13	A ladder is within 25 feet of all employees working in trench	X		31	Damaged materials or equipment are removed from service.	X	
14	Excavated material is stored at least two feet from the edge of the excavation.	X		32	An emergency response program is in place.	X	
15	Employees are protected from loose material which could fall into trench.	X		33	Life support equipment is in working order.	X	
16	A competent person inspects the trench prior to the start of the shift.	X		34	Note other conditions. CGI < 2% LEL		
17	The location of trench is marked by banners, barricades or other signals.	X		35	Breathing Air 0.0 ppm VOC		
18	Bridges or walkways over excavations are equipped with guardrails and toeboards.	NA		36			

Notes: Z M S CQC

© 1993 J.J. KELLER & ASSOCIATES, INC. Neenah, WI 54957-0368
To Reorder Call: 1-800-327-6868

SKETCH: SWMU 46



CA46/1 thru CA46/6 : Field Screening samples

CA46/7 : Confirmatory Sample

CA46/8 : Excavated material

CA46/4 + CA46/6 : Correlation samples

SAMPLE INFORMATION

Sample ID No.: CA46/7-96-0923-0826

Sample Depth: 10' Sample Matrix: Soil

Sample Location: 2' below OWS

Sample Purpose: Confirmatory sample

Number of Samples Taken: 4 Preservatives Used: ICE

Sample Method: 8015, 8260, 8270, 6010 & 7470 using 1311 Extn.

Headspace Analysis: NT

Contaminated Action Level:

SAMPLE INFORMATION

Sample ID No.: CA46/8-96-0923-1108

Sample Depth: Composite Sample Matrix: Soil

Sample Location: Excavated material stockpile

Sample Purpose: Disposal

Number of Samples Taken: 1 Preservatives Used: ICE

Sample Method: Immunoassay TPH+BTEX, Headspace, 6010 & 7470 using 1311 Extn.

Headspace Analysis: 0.0 PPM

Contaminated Action Level: >100 PPM TPH & >50 PPM BTEX

SAMPLE INFORMATION

Sample ID No.: CA46/1-96-0923-0820, CA46/2-96-0923-0821, CA46/3-96-0923-0822
CA46/4-96-0923-0823

Sample Depth: 4' Sample Matrix: Soil

Sample Location: sides of OWS

Sample Purpose: CLOSURE Field Screening

Number of Samples Taken: 4 Preservatives Used: ICE

Sample Method: Immnoassay TPH + BTEX, Headspace

Headspace Analysis: CA46/1 = 0.0 PPM, CA46/2 = 0.0 PPM, CA46/3 = 0.1 PPM
CA46/4 = 0.0 PPM

Contaminated Action Level: >100 PPM TPH + >50 PPM BTEX

SAMPLE INFORMATION

Sample ID No.: CA46/5-96-0923-0824, CA46/6-96-0923-0825

Sample Depth: 10' Sample Matrix: Soil

Sample Location: 2' below OWS

Sample Purpose: Closure Field Screening

Number of Samples Taken: 2 Preservatives Used: ICE

Sample Method: Immnoassay TPH + BTEX, Headspace

Headspace Analysis: CA46/5 = 0.0 PPM, CA46/6 = 0.0 PPM

Contaminated Action Level: >100 PPM TPH + >50 PPM BTEX

SAMPLE INFORMATION

Sample ID No.: CA46/4-96-0923-0823

Sample Depth: 4' Sample Matrix: Soil

Sample Location: side of excavation

Sample Purpose: correlation Lab analysis / field screening

Number of Samples Taken: 1 Preservatives Used: ICE

Sample Method: 8015 + 8020

Headspace Analysis: NT

Contaminated Action Level: >50 PPM BTEX + >100 PPM TPH

SAMPLE INFORMATION

Sample ID No.: CA46/6-96-0923-0825

Sample Depth: 10' Sample Matrix: Soil

Sample Location: bottom of excavation

Sample Purpose: field screening / Lab analysis Correlation

Number of Samples Taken: 1 Preservatives Used: ICE

Sample Method: 8015 + 8020

Headspace Analysis: NT

Contaminated Action Level: >100 PPM TPH + >50 PPM BTEX

Data Sheet for PETRO RISc® SamplePro Test

Immunassay According to method 4030

Operator: Troy Morales Date: 9-23-96 Location: Swmu 46

Sample ID	Low Test Level ΔOD Standards	Low Test Level OD sample 15 ppm	Low Test Level Interpretation	High Test Level ΔOD Standards	High Test Level OD sample ____ ppm	High Test Level Interpretation	Comments
TPH							
CA46/1-96-0923-0820	-0.13	0.35	< 15 ppm	-0.06	0.25	< 100 ppm	
CA46/2-96-0923-0821	"	0.05	< 15 ppm	"	0.51	< 100 ppm	
CA46/3-96-0923-0822	"	-0.20	> 15 ppm	"	0.54	< 100 ppm	
CA46/4-96-0923-0823	"	-0.45	> 15 ppm	"	0.04	< 100 ppm	
CA46/5-96-0923-0824	-0.06	0.30	< 15 ppm	-0.05	0.44	< 100 ppm	
CA46/6-96-0923-0825	"	-0.03	> 15 ppm	"	0.52	< 100 ppm	
CA46/8-96-0923-1108	"	0.12	< 15 ppm	"	0.48	< 100 ppm	
				"			
BTEX							
CA46/1 10 ppm	1.34	1.30	> 10 < 50 ppm				
CA46/2 50 ppm	1.05	1.39	< 10 ppm				
CA46/3 300 ppm	0.50	1.38	< 10 ppm				
CA46/4		1.20	> 10 < 50 ppm				
CA46/5		1.16	> 10 < 50 ppm				
CA46/6		1.27	> 10 < 50 ppm				
CA46/8		1.06	> 10 < 50 ppm				

DATA SHEET
ENVIROGARD PETROLEUM FUELS (BTEX) IN SOIL TEST KIT

	OD VALUE
Negative Control	
10 ppm BTEX Calibrator	1.34
50 ppm BTEX Calibrator	1.05
300 ppm BTEX Calibrator	0.50

SAMPLE ID	OD VALUE	INTERPRETATION
CA46/1-96-0923-0820	1.30	>10 PPM <50 PPM BTEX
CA46/2-96-0923-0821	1.39	<10 PPM BTEX
CA46/3-96-0923-0822	1.38	<10 PPM BTEX
CA46/4-96-0923-0823	1.20	>10 PPM <50 PPM BTEX
CA46/5-96-0923-0824	1.16	>10 PPM <50 PPM BTEX
CA46/6-96-0923-0825	1.27	>10 PPM <50 PPM BTEX
CA46/8-96-0923-1108	1.06	>10 PPM <50 PPM BTEX

ASSAIGAI ANALYTICAL LABORATORIES

Chain of Custody Record

7300 JEFFERSON, N.E.
ALBUQUERQUE, NEW MEXICO 87109
(505) 345-8964

3332 WEDGEWOOD
EL PASO, TEXAS 79925
(915) 593-6000

1910 N. BIG SPRING
MIDLAND, TEXAS 79705
(915) 570-1116

MELQUIADES ALANIS
6411 LOCAL UNO
CIUDAD JUAREZ, CHIHUAHUA MEXICO 32320

Lab job no.: _____ Date _____

Page _____ of _____

Client: Chevron / LCI-2, INC

Address: 112 S Prince St

City / State / Zip: CLOVIS NM 88101

Project Name / Number: DACH97-95-D-0035

Contract / Purchase Order / Quote: DAN MOORE

Project Manager / Contact: Mike Landeaf

Telephone No.: 505 763-1910

Fax No.: 505 7690780

Samplers: (Signature)

Analysis Required

Sample Number / Location	Date	Time	Sample Type	Type / Size of Container	Preservation Temp.	Preservation Chemical	No. of Containers	TPH 8015	BTEX 8021	VOC 8260	SVOC 8270	TCLP Metals	Metals				Remarks
CA96/7-96-0923-0826	9-23-96	8:26	soil	1-4oz, 3-4oz glass	ice		4	X	X	X	X						Certified dry sample
CA96/8-96-0923-1108	9-23-96	11:08	soil	1-4oz glass	"		1				X						Excavated material

Relinquished by:
Signature
Printed: Todd Gallegos
Company: Chevron
Reason: Shipment
Date: 9-23-96
Time: 6:26 AM

Received by:
Signature
Printed: S.N. Gonzales
Company: TNMO Couch
Reason: Shipment

Relinquished by:
Signature
Printed
Company
Reason
Date
Time

Received by:
Signature
Printed
Company
Reason

Method of Shipment:
Shipment No.:
Special Instructions:

Comments:

After analysis, samples are to be:
- ☐ Disposed of (additional fee)
- ☐ Stored (30 days max)
- ☐ Stored over 30 days (additional fee)
- ☐ Returned to customer

FIEL

Chain of Custody Record

SSAIGAI ANALYTICAL LABORATORIES

7300 JEFFERSON, N.E.
ALBUQUERQUE, NEW MEXICO
(505) 345-8964

3332 WEDGEWOOD
EL PASO, TEXAS 79925
(915) 593-6000

1910 N. BIG SPRING
MIDLAND, TEXAS 79705
(915) 570-1116

MELQUIADES ALANIS
6411 LOCAL UNO
CIUDAD JUAREZ, CHIHUAHUA MEXICO 32320

Lab job no.: _____ Date: _____

Page _____ of _____

Client: Cheyenne / LCI 2, INC.

Address: 1712 Pierce St E

City / State / Zip: CLOVIS NM 88101

Project Name / Number: DACH47-95-D-0035

Contract / Purchase Order / Quote: DAN MOORE

Project Manager / Contact: Mike Landrat

Telephone No.: 505-763-1410

Fax No.: 505-769-0780

Samplers: (Signature)

Analysis Required

OFFICE USE ONLY: LAAC FRACTION NUMBER	Field Sample Number / Location	Date	Time	Sample Type	Type / Size / Container	Preservation: Ice	Preservation: Chemical													
	CH46/A-96-0923-0823	9/23/96	8:23	soil	1 = 4oz glass	ice		1	X	X									Cover Letter Checklist	
	CH46/6-96-0923-0825	"	8:25	"	"	"		1	X	X									"	1 of 1

Relinquished by:	Date	Received by:	Relinquished by:	Date	Received by:
Signature: [signature]	9/25/96	Signature: [signature]	Signature:		Signature:
Printed: Troy Martez	Time: 4:00 PM	Printed: S.N. Gonzalez	Printed:	Time	Printed:
Company: Cheyenne		Company: TNM&O CC	Company:		Company:
Reason: Shipment		Reason: Shipment	Reason:		Reason:

Method of Shipment: Bus Greyhound

Shipment No.:

Special Instructions:

Comments:

After analysis, samples are to be:

- ☐ Disposed of (additional fee)
- ☐ Stored (30 days max)
- ☐ Stored over 30 days (additional fee)
- ☐ Returned to customer

FIELD FILE

K. BARNETT & SONS INC.

CLOVIS, NEW MEXICO No 90345

Rec. By

Project No. LCI-2 (CAFB)

ID NO. 2
GROSS 37820 LB
W TARE 20920 LB
NET 16900 LB
DATE 10/18/96 TIME 1:36 PM

8.45

ID NO. 2
WT. IN 20920 LB
DATE 10/18/96 TIME 1:27 PM

Date..... Gross Lbs.....
Truck No..... Tare.....
Net Lbs.....

Inventory No.....
Material Desc. PMRP
From: South Pit
To: MRX FRAZER
Weigher [illegible] Dumper [illegible]

White - Purchasers Copy Yellow - KB & S Pink - Driver Copy Gold - Scale Copy

K. BARNETT & SONS INC.

CLOVIS, NEW MEXICO No 90339

Rec. By

Project No. LCI-2 (CAFB)

ID NO. 2
GROSS 33120 LB
W TARE 20720 LB
NET 12400 LB
DATE 10/18/96 TIME 10:27 AM

ID # ~~3336~~ 2
Weigh In ~~29660~~ 10:09 AM.
WT 20720

Date..... Gross Lbs.....
Truck No..... Tare.....
Net Lbs.....

Inventory No.....
Material Desc. PMRP
From: South Pit
To:
Weigher [illegible] Dumper [illegible]

White - Purchasers Copy Yellow - KB & S Pink - Driver Copy Gold - Scale Copy

CHEYENNE BUILDING CONTRACTORS, INC.
QUALITY CONTROL FIELD NOTES
UNIT REMOVAL AT CANNON AFB, NM
CONTRACT NO.: DACA47-95-D-0035

DATE: 9-26-96
TIME: 12:00
WEATHER: Cloudy
TEMP.: 65°F

UNIT INFORMATION

Unit Owner: U.S. Army Corp of Engineers Phone No.: 505-784-4351

Address: P.O. Box 1580 Albuquerque, NM 87103

Bldg. No.: 195 SWMU No.: 39

Date Installed: 1971 Date Last Used: 9-25-96

Units Association with Facility: Solid Waste Management Unit for bldg. 195

Unit Width: 9' Unit Length: 7' Unit Depth: 8'

Unit Contents: Cont. H_2O, waste oil/sludge Gallons Removed: 1,325.30 gal. H_2O 71.5 gal. waste oil/sludge

Type of Ground Cover: Asphalt

Petroleum Odors: YES ☐ NO ☒

Visual Characterization of Soil: Clean

Evidence of a Spill: YES ☒ NO ☐

Other Potential Sources of Contamination: ground around inlet piping was saturated with water. Pipe seemed to be leaking.

Notification for Underground Storage Tanks

UST BUREAU/EID
1190 St. Francis Drive
Santa Fe, NM 87503

I.D. Number

STATE USE ONLY

Date Received

GENERAL INFORMATION

Notification is required by Federal law for all underground tanks that have been used to store regulated substances since January 1, 1974, that are in the ground as of May 8, 1986, or that are brought into use after May 8, 1986. The information requested is required by Section 9002 of the Resource Conservation and Recovery Act (RCRA), as amended.

The primary purpose of this notification program is to locate and evaluate underground tanks that store or have stored petroleum or hazardous substances. It is expected that the information you provide will be based on reasonably available records, or, in the absence of such records, your knowledge, belief, or recollection.

Who Must Notify? Section 9002 of RCRA, as amended, requires that, unless exempted, owners of underground tanks that store regulated substances must notify designated State or local agencies of the existence of their tanks. Owner means—

(a) in the case of an underground storage tank in use on November 8, 1984, or brought into use after that date, any person who owns an underground storage tank used for the storage, use, or dispensing of regulated substances, and

(b) in the case of any underground storage tank in use before November 8, 1984, but no longer in use on that date, any person who owned such tank immediately before the discontinuation of its use.

What Tanks Are Included? Underground storage tank is defined as any one or combination of tanks that (1) is used to contain an accumulation of "regulated substances," and (2) whose volume (including connected underground piping) is 10% or more beneath the ground. Some examples are underground tanks storing 1. gasoline, used oil, or diesel fuel, and 2. industrial solvents, pesticides, herbicides or fumigants.

What Tanks Are Excluded? Tanks removed from the ground are not subject to notification. Other tanks excluded from notification are:

1. farm or residential tanks of 1,100 gallons or less capacity used for storing motor fuel for noncommercial purposes;
2. tanks used for storing heating oil for consumptive use on the premises where stored;
3. septic tanks;
4. pipeline facilities (including gathering lines) regulated under the Natural Gas Pipeline Safety Act of 1968, or the Hazardous Liquid Pipeline Safety Act of 1979, or which is an intrastate pipeline facility regulated under State laws;
5. surface impoundments, pits, ponds, or lagoons;
6. storm water or wastewater collection systems;
7. flow-through process tanks;
8. liquid traps or associated gathering lines directly related to oil or gas production and gathering operations;
9. storage tanks situated in an underground area (such as a basement, cellar, mineworking, drift, shaft, or tunnel) if the storage tank is situated upon or above the surface of the floor.

What Substances Are Covered? The notification requirements apply to underground storage tanks that contain regulated substances. This includes any substance defined as hazardous in section 101 (14) of the Comprehensive Environmental Response, Compensation and Liability Act of 1980 (CERCLA), with the exception of those substances regulated as hazardous waste under Subtitle C of RCRA. It also includes petroleum, e.g., crude oil or any fraction thereof which is liquid at standard conditions of temperature and pressure (60 degrees Fahrenheit and 14.7 pounds per square inch absolute).

Where To Notify? Completed notification forms should be sent to the address given at the top of this page.

When To Notify? 1. Owners of underground storage tanks in use or that have been taken out of operation after January 1, 1974, but still in the ground, must notify by May 8, 1986. 2. Owners who bring underground storage tanks into use after May 8, 1986, must notify within 30 days of bringing the tanks into use.

Penalties: Any owner who knowingly fails to notify or submits false information shall be subject to a civil penalty not to exceed $10,000 for each tank for which notification is not given or for which false information is submitted.

INSTRUCTIONS

Please type or print in ink all items except "signature" in Section V. This form must by completed for each location containing underground storage tanks. If more than 5 tanks are owned at this location, photocopy the reverse side, and staple continuation sheets to this form.

Indicate number of continuation sheets attached: [ ]

I. OWNERSHIP OF TANK(S)

Owner Name (Corporation, Individual, Public Agency, or Other Entity): 27th CE/CEIP

Street Address: 111 Engineers Way

County: Curry

City: Cannon AFB | State: NM | ZIP Code: 88103

Area Code: 505 | Phone Number: 784-6022

Type of Owner (Mark all that apply ☒)

- [ ] Current
- [ ] Former
- [ ] State or Local Govt
- [x] Federal Govt (GSA facility I.D. no. _____)
- [ ] Private or Corporate
- [ ] Ownership uncertain

II. LOCATION OF TANK(S)

(If same as Section 1, mark box here [ ])

Facility Name or Company Site Identifier, as applicable: Bldg. 195 Sumner 39

Street Address or State Road, as applicable: Curry

County: Cannon AFB | NM | 88103

City (nearest) | State | ZIP Code

Indicate number of tanks at this location: 1

Mark box here if tank(s) are located on land within an Indian reservation or on other Indian trust lands: [ ]

III. CONTACT PERSON AT TANK LOCATION

Name (If same as Section I, mark box here [ ]): Troy Morales

Job Title: CDC Cheyenne Bldg. Cont. Ill.

Area Code: 505 | Phone Number: 763-1410

IV. TYPE OF NOTIFICATION

[ ] Mark box here only if this is an amended or subsequent notification for this location.

V. CERTIFICATION (Read and sign after completing Section VI.)

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete.

Name and official title of owner or owner's authorized representative	Signature	Date Signed

CONTINUE ON REVERSE SIDE

NK CLOSURE WORKSHEET
(COMPLETE AFTER CLOSURE)

Tank Owner 27th CE/CEVP Phone 505-784-6022
Mailing Address 111 Engineers Way Cannon AFB 88103
Tank Address Bldg. 195 Swmu 39
Contractor Name Cheyenne Bldg. Cont. Inc Phone 763-1410
Address 1712 S Prince St CLOVIS NM 88101
Contractor Name _____ Phone _____
Address _____

Tank Closure Date 9-25-96 # of Tanks Closed 1

****

I. Tank Closure Initial Procedures (check measures complied with):
- ✓ Obtain recommended safety equipment for all personnel
- ✓ Contact Fire Marshall or other fire officials
- ✓ Bond or ground equipment
- ✓ Drain product from piping and tank
- ✓ Disconnect, then cap or remove piping
- ✓ Remove all residual product from tank
- ✓ Excavate to tank top
- ✓ Remove all tank fixtures
- ✓ Properly purge or inert tank of all flammable vapors using approved method
- ✓ Continually monitor for explosive vapors while tank is being removed

II. Tank Removal
- ✓ Create vent hole
- ✓ Excavate tank using all safety precautions
- ✓ Clean and inspect tank
- ✓ Check excavation for evidence of leaks and notify EID and other proper authorities if leak is found
- ✓ Check vapor levels in tank before transporting
- ✓ Dispose of tank in approved manner

Tank disposal location City Landfill CLOVIS NM 88101
City State
How did you assess site for leakage? Field Screening / Lab analysis
Closure report kept at 111 Engineers Way, Cannon AFB 88103
NOTE: Immediately report any evidence of leakage to EID at 827-0188

I hereby state that the above information is correct

[signature] CAC Cheyenne Bldg. Cont. INC
Signature of ~~owner or~~ contractor performing work

****

FOR EID USE ONLY
Notification Received _____ Approved By _____
Inspection Date _____ Inspector _____

CHEYENNE
BUILDING CONTRACTORS INC.

P.O. BOX 418
CLOVIS, NEW MEXICO 88102-0418
(505) 769-9019 • FAX (505) 769-2588

GB98
LIC. NO. 30759

CERTIFICATE OF VAPOR TESTING

DATE 9/25/96

TANK OWNER 27th CE/CEUP PHONE 505-784-6022

ADDRESS 111 Engineers Way, Cannon AFB NM 88103

CONTRACTOR REMOVING TANK Cheyenne

ADDRESS 1712 Prince St CLOVIS NM 88101 PHONE 505-763-1410

CHEYENNE BUILDERS IS CERTIFIED CONTRACTOR IN VAPOR TESTING.

I Troy Moralez HEREBY CERTIFY THAT ~~TANK~~ unit AT Bldg. 195 IS FREE FROM COMBUSTIBLE MATERIAL.

Troy Moralez
TROY MORALEZ

MIKE LANDGRAF

EXCAVATION CHECK LIST

Company Cheyenne	Date 9/26/96
Site Location/Description SWMU 39	Time 3:00 ☐AM ☒PM
Inspected by Troy Moralez	Project Number NACA47-95-D-0035

INSTRUCTIONS: Read the ITEM NUMBER and DESCRIPTION to determine the current conditions of this excavation site. Mark an (X) in the YES column if description is present and has been satisfied. Mark an (X) in the NO column if the item has not been completed. Mark a line (–) across the YES and No columns if the ITEM does not apply. Use the NOTES section to list the ITEM NUMBER. Write any comments that apply to the ITEM NUMBER.

Item	DESCRIPTION	YES	NO	Item No.	DESCRIPTION	YES	NO
1	The utility company has been notified of excavation work schedule.	X		19	Employees working below other employees in trench are protected from hazards.	X	
2	Location of underground utility lines are identified.	X		20	The trench is free of standing water.	X	
3	Hazardous objects have been removed from excavation area or blocked securely.	X		21	The proper water removal equipment is operating under guidance of competent person.	X	
4	Soil type is classified.	X		22	Diversion ditches or dikes are in place to prevent surface water from entering trench.	X	
5	Sloping and Benching system is designed per OSHA requirements.	X		23	The trench is inspected by competent person following any amount of rain.	X	
6	Timber shoring system is designed per OSHA requirements.	X		24	Employees are wearing proper safety equipment.	X	
7	Aluminum Hydraulic shoring system is designed per OSHA requirements.	X		25	Test air quality in trench if a hazardous atmosphere is suspected.	X	
8	Shielding system is designed per OSHA requirements.	X		26	A ventilation or respiratory protection is in use.	X	
9	Shields are free from damage or defects.	X		27	Protective support systems are installed from the top down.	X	
10	Employees are protected from cave-ins when entering and exiting the shield.	X		28	Protective support systems are dismantled from the bottom up.	X	
11	When a combination of sloping and shielding is used, the shield must extend 18 inches above the bottom slope of the excavation.	X		29	Excavation is backfilled as the protective system is dismantled.	X	
12	A ladder is provided and secured in trench four or more feet deep; top of ladder extending at least 36 inches above edge of trench.	X		30	Heavy equipment is mounted on wooden mats to distribute weight.	X	
13	A ladder is within 25 feet of all employees working in trench	X		31	Damaged materials or equipment are removed from service.	X	
14	Excavated material is stored at least two feet from the edge of the excavation.	X		32	An emergency response program is in place.	X	
15	Employees are protected from loose material which could fall into trench.	X		33	Life support equipment is in working order.	X	
16	A competent person inspects the trench prior to the start of the shift.	X		34	Note other conditions. LEL 2% 19.5 Oxygen		
17	The location of trench is marked by banners, barricades or other signals.	X		35	0.0 PPM VOC		
18	Bridges or walkways over excavations are equipped with guardrails and toeboards.			36			

Notes:

Z MS CAC

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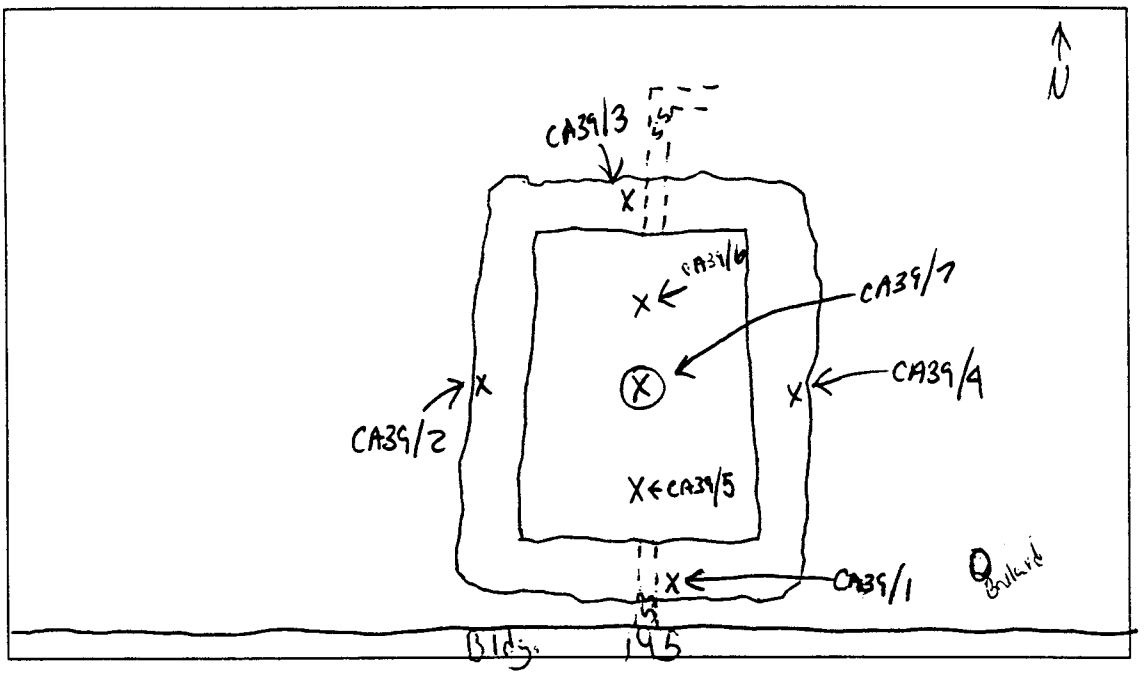
To Reorder Call: 1-800-327-6868

SKETCH: swmu39



CA39/1 thru CA39/6 : Field Screening samples

CA39/7 + CA39/8 : Confirmatory samples

CA39/5 : Correlation sample

SAMPLE INFORMATION

Sample ID No.: CA39/1-96-0930-1050, CA39/2-96-0930-1051, CA39/3-96-0930-1330, CA39/4-96-0930-1331

Sample Depth: 8'-6" Sample Matrix: Soil

Sample Location: sides of Excavation

Sample Purpose: Field Screening

Number of Samples Taken: 4 Preservatives Used: ICE

Sample Method: Headspace, Immnoassay TPH + BTEX

Headspace Analysis: CA39/1 = 0.0PPM, CA39/2 = 0.0PPM, CA39/3 = 0.0PPM, CA39/4 = 0.0PPM

Contaminated Action Level: >100PPM TPH + >50 PPM BTEX

SAMPLE INFORMATION

Sample ID No.: CA39/5-96-0930-1332, CA39/6-96-0930-1333

Sample Depth: 9' Sample Matrix: Soil

Sample Location: Bottom of excavation

Sample Purpose: Field Screening

Number of Samples Taken: 2 Preservatives Used: ICE

Sample Method: Head space, Immnoassay TPH + BTEX

Headspace Analysis: CA39/5 = 0.1 PPM, CA39/6 = 0.3 PPM

Contaminated Action Level: >100 TPH + >50 PPM BTEX

SAMPLE INFORMATION

Sample ID No.: CA39/7-96-0930-1334

Sample Depth: 9' Sample Matrix: Soil

Sample Location: Bottom of excavation

Sample Purpose: Confirmatory Closure

Number of Samples Taken: 4 Preservatives Used: ICE

Sample Method: 8015, 8260, 8270, 6010 & 7470 using 1311 Extraction

Headspace Analysis: NT

Contaminated Action Level:

SAMPLE INFORMATION

Sample ID No.: CA39/8-96-0930-1000

Sample Depth: Composite Sample Matrix: Soil

Sample Location: Excavated material stockpile

Sample Purpose: Disposal confirmatory

Number of Samples Taken: 2 Preservatives Used: ICE

Sample Method: Headspace, Immunoassay TPH+BTEX, 6010+7470 using 1311 Extr.

Headspace Analysis: 0.0 PPM

Contaminated Action Level: >100 PPM TPH + >50 PPM BTEX

SAMPLE INFORMATION

Sample ID No.: CA39/5-96-0930-1332

Sample Depth: 9' Sample Matrix: Soil

Sample Location: Bottom of excavation

Sample Purpose: field screening/lab analysis corelation

Number of Samples Taken: 7 Preservatives Used: ICE

Sample Method: 8015 & 8020

Headspace Analysis: 0.1 PPM

Contaminated Action Level: >100PPM TPH & >50 PPM BTEX

SAMPLE INFORMATION

Sample ID No.: _____

Sample Depth: _____ Sample Matrix: Soil

Sample Location: _____

Sample Purpose: _____

Number of Samples Taken: _____ Preservatives Used: _____

Sample Method: _____

Headspace Analysis: _____

Contaminated Action Level: _____

Data Sheet for PETRO RISC® SamplePro Test

Immunoassay TPH | Method 4030

Operator: Troy Morales Date: 9/30/96 Location: Swmu 39

Sample ID	Low Test Level ΔOD Standards	Low Test Level OD sample ____ ppm	Low Test Level Interpretation	High Test Level ΔOD Standards	High Test Level OD sample ____ ppm	High Test Level Interpretation	Comments
CA39/1-96-0930-1050	-0.07	0.03	< 15 ppm	-0.02	0.28	< 100 PPM	
CA39/2-96-0930-1051	-0.07	0.11	< 15 PPM	-0.02	0.07	< 100 PPM	
CA39/3-96-0930-1330	-0.03	0.05	< 15 PPM	-0.01	0.51	< 100 PPM	
CA39/4-96-0930-1331	-0.03	0.51	< 15 PPM	-0.01	0.12	< 100 PPM	
CA39/5-96-0930-1332	-0.03	-0.04	> 15 PPM	-0.01	0.45	< 100 PPM	correlation sample
CA39/6-96-0930-1333	-0.03	1.79	< 15 PPM	-0.01	0.55	< 100 PPM	
CA39/8-96-0930-1000	-0.09	-0.24	> 15 PPM	-0.21	0.59	< 100 PPM	Excavated material

DATA SHEET
ENVIROGARD PETROLEUM FUELS (BTEX) IN SOIL TEST KIT

	OD VALUE
Negative Control	1.55
10 ppm BTEX Calibrator	1.26
50 ppm BTEX Calibrator	1.04
300 ppm BTEX Calibrator	0.56

SAMPLE ID	OD VALUE	INTERPRETATION
CA39/1-96-09.30-1050	1.15	>10 PPM < 50 PPM BTEX

DATA SHEET
ENVIROGARD PETROLEUM FUELS (BTEX) IN SOIL TEST KIT

	OD VALUE
Negative Control	1.95
10 ppm BTEX Calibrator	1.66
50 ppm BTEX Calibrator	1.10
300 ppm BTEX Calibrator	0.84

SAMPLE ID	OD VALUE	INTERPRETATION
CA39/2-96-0930-1051	1.75	<10 PPM BTEX
CA39/3-96-0930-1330	1.64	>10 PPM <50 PPM BTEX
CA39/4-96-0930-1331	1.83	<10 PPM BTEX
CA39/5-96-0930-1332	1.67	<10 PPM BTEX
CA39/6-96-0930-1333	1.77	<10 PPM BTEX
CA39/8-96-0930-1000	1.70	<10 PPM BTEX

TNM&O

1313 13th Street
Lubbock, TX 79401

082

MO	DAY	YEAR	TIME	AM	PM	FORWARDING AGENCY NO.	FORWARDING AGENT INITIALS	PICK-UP AGENT I.D.	DELIVERY AGENT I.D.	DESTINATION AGENCY NO.
9	30	96	610							

DESTINATION STATION CITY & STATE: Albuquerque ZIP: NM

To (Recipient's Name): Asbury Analytical Labs

Exact Street Address Cannot deliver to P.O. Box or Zip Code: Attn: Dan Moore

City: 7300 Jefferson State: N.E. Zip:

Recipient's Package Express Account No.

Recipient's Phone Number (Very Important): (345-8864

Shipper's Phone Number (Very Important): ( ) -

Shipper's Package Express Account No.

From (Shipper's Name): Cheyenne-LC1-2-

Exact Street Address Cannot deliver to P.O. Box or Zip Code: 1712-S Prince

City: Clovis State: NM Zip:

SHIPPER'S RECEIPT - 1

BUSBILL NUMBER
DO NOT WRITE IN THIS AREA

901 552 445 2

INTERLINE INFORMATION

Carrier Code	City	Schedule #

SERVICE REQUIRED: NBO / SAME DAY / OVER-NIGHT / STD

PAYMENT: BILL PKG EXPRESS ACCOUNT / CASH / BILL 3RD PARTY (X) / BILL CRDT CARD

X X = ÷ 200 =
DIMENSIONAL WEIGHT COMPUTATION — DIMENSIONAL WGT. LBS.

NO. OF PIECES	ACTUAL WEIGHT LBS.	DECLARED VALUE $
1	31	

CONTENTS: Bert

CARTON DESCRIPTION:

DEL. REQ'D	RATE ZONE	C.O.D.

PREPAID	CHARGES	COLLECT
$.	EXPRESS	$ 1302
.	REFWD	.
.	VALUE	.
.	COLLECT / C.O.D. FEE	95
.	SUB TOTAL	1395
.	PICK-UP	.
.	DELIVERY	.
.	TAX	70
	C.O.D. AMOUNT	.
$.	TOTAL	$ 1465

(NOT NEGOTIABLE) SUBJECT TO TARIFF REGULATIONS LIABILITY: This Carrier will not pay loss or damage claims over $100 per shipment or $50 per package, whichever is greater, unless a greater value is declared and charges for such greater value paid. Maximum valuation on any one shipment is limited by tariff. (See Tariff for Intrastate exceptions). In no event shall the Carrier be liable for **consequential** or **incidental** damage for loss, damage or delay.

ASSAIGAI ANALYTICAL LABORATORIES

Chain of Custody Record

7300 JEFFERSON, N.E.
ALBUQUERQUE, NEW MEXICO 87109
(505) 345-8964

3332 WEDGEWOOD
EL PASO, TEXAS 79925
(915) 593-6000

1910 N. BIG SPRING
MIDLAND, TEXAS 79705
(915) 570-1116

MELQUIADES ALANIS
6411 LOCAL UNO
CIUDAD JUAREZ, CHIHUAHUA MEXICO 32320

Lab Job no.: _____ Date _____

Page _____ of _____

Client: Chevron ICCI-2

Address: 1712 Street

City / State / Zip: CLOVIS NM 88101

Project Name / Number: DACH47-95-D-0035

Contract / Purchase Order / Quote: Dan Moore

Project Manager / Contact: Mike Lockhart

Telephone No.: 505-763-1910

Fax No.: 505-769-0780

Samplers: (Signature)

Field Sample Number / Location	Date	Time	Sample Type	Type / Size of Container	Preservation Temp.	Preservation Chemical	No. of Containers	TRPH 8015 MOD	VOC 8260	SVOC 8270	Metals 6010 & 7470 Using 1311 Extraction	RTEX 8020				Remarks
CA39/7-96-0930-1334	9/30/96	1334	soil	1-4oz glass	ice		4	X	X	X	X					confirmatory
CA38/8-96-0930-0805	9/30/96	8:05	soil	1-4oz glass	ice		4	X	X	X	X					confirmatory
CA39/8-96-0930-1000	9/30/96	10:00	soil	1 4oz glass	ice		1				X					confirmatory excavated material
CA38/4-96-0930-0802	9/30/96	8:02	soil	1 4oz glass			1	X				X				correlation Highest
CA38/5-96-0930-0803	9/30/96	8:03	soil	1 4oz glass			1	X				X				correlation 1 of 10
CA39/5-96-0930-1337	9/30/96	13:37	soil	1 4oz glass			1	X				X				correlation

Relinquished by:	Date / Time	Received by:	Relinquished by:	Date / Time	Received by:
Signature: [signature]	9/30/96	Signature: [signature]	Signature:		Signature:
Printed: Troy Mueller		Printed: SW Gonzales	Printed:		Printed:
Company: Clay		Company: INTECH Capital	Company:		Company:
Reason: Shipment		Reason: Shipment	Reason:		Reason:

Method of Shipment: Fed Ex

Shipment No.:

Special Instructions:

Comments:

After analysis, samples are to be:

- ☐ Disposed of (additional fee)
- ☐ Stored (30 days max)
- ☐ Stored over 30 days (additional fee)
- ☐ Returned to customer

FIELD

LABORATORY USE ONLY

K. BARNETT & SONS INC.

CLOVIS, NEW MEXICO No 90345

Rec. By

Project No. LCI-2 (CAFB)

ID NO. 2
GROSS 37820 LB
W TARE 20920 LB
NET 16900 LB
DATE 10/18/96 TIME 1:36 PM

8.45

ID NO. 2
WT. IN 20920 LB
DATE 10/18/96 TIME 1:27 PM

Date..... Gross Lbs.....

Truck No..... Tare.....

Net Lbs.....

Inventory No.....

Material Desc. PMRP

From: South Pit

To: Max Fraizer

Weigher [illegible] Dumper [illegible]

White - Purchasers Copy Yellow - KB & S Pink - Driver Copy Gold - Scale Copy

K. BARNETT & SONS INC.

CLOVIS, NEW MEXICO No 90339

Rec. By

Project No. LCI-2 (CAFB)

ID NO. 2
GROSS 33120 LB
W TARE 20720 LB
NET 12400 LB
DATE 10/18/96 TIME 10:27 AM

ID # ~~3326~~ 2
Weigh In ~~29600~~ 10:09 AM.
out 20720

Date..... Gross Lbs.....

Truck No..... Tare.....

Net Lbs.....

Inventory No.....

Material Desc. PMRP

From: South Pit

To:

Weigher [illegible] Dumper [illegible]

White - Purchasers Copy Yellow - KB & S Pink - Driver Copy Gold - Scale Copy

There was no discolored soil. The soil around the inlet pipe was saturated with water. It appeared to be leaking. Field sampling analysis showed no contamination.

CHEYENNE BUILDING CONTRACTORS, INC.
QUALITY CONTROL FIELD NOTES
UNIT REMOVAL AT CANNON AFB, NM
CONTRACT NO.: DACA47-95-D-0035

DATE: 10-8-96
TIME: 8:00 AM
WEATHER: mild
TEMP.: 71°

UNIT INFORMATION

Unit Owner: U.S. Army Corp of Engineers Phone No.: 505-784-4351

Address: P.O. Box 1580 Albuquerque, NM 87103

Bldg. No.: 5120 SWMU No.: 92

Date Installed: 1957 Date Last Used: 1988

Units Association with Facility: Solid Waste management unit for bldg. 5120

Unit Width: 4' Unit Length: 6' Unit Depth: 8'

Unit Contents: Sludge + Cont H2O Gallons Removed: 36

Type of Ground Cover: natural

Petroleum Odors: YES ☐ NO ☒

Visual Characterization of Soil: no visual signs of contamination

Evidence of a Spill: YES ☐ NO ☒

Other Potential Sources of Contamination: unknown

CHEYENI
BUILDING CONTRACTORS INC.

P.O. BOX 418
CLOVIS, NEW MEXICO 88102-0418
505) 769-9019 • FAX (505) 769-2588

GB98
LIC. NO. 30759

CERTIFICATE OF VAPOR TESTING

DATE 10-8-96

TANK OWNER 27th CE PHONE 784-6022

ADDRESS 111 Engineers Way

CONTRACTOR REMOVING TANK Cheyenne Bldg. Cont. INC.

ADDRESS P.O. Box 418 PHONE 769-9019

CHEYENNE BUILDERS IS CERTIFIED CONTRACTOR IN VAPOR TESTING.

I Troy Moralez HEREBY CERTIFY THAT ~~TANK~~ unit AT Bldg. 5120 IS FREE FROM COMBUSTIBLE MATERIAL.

TROY MORALEZ

MIKE LANDGRAF

SAMPLE INFORMATION

Sample ID No.: CA92/2-96-1015-1425

Sample Depth: 9' Sample Matrix: Soil

Sample Location: side of excavation

Sample Purpose: Correlation

Number of Samples Taken: 1 Preservatives Used: ICE

Sample Method: TRPH 8015 + BTEX 8020

Headspace Analysis: NT

Contaminated Action Level: >100 PPM TPH + >50 PPM BTEX

SAMPLE INFORMATION

Sample ID No.: CA92/6-96-1015-1429

Sample Depth: 10' Sample Matrix: Soil

Sample Location: Bottom of excavation

Sample Purpose: Correlation

Number of Samples Taken: 1 Preservatives Used: ICE

Sample Method: TRPH 8015 + BTEX 8020

Headspace Analysis: NT

Contaminated Action Level: >100 PPM TPH + >50 PPM BTEX

SAMPLE INFORMATION

Sample ID No.: CA92/9-96-1016-1440 CA92/10-96-1016-1441, CA92/11-96-1442 CA92/12-96-1016-1443

Sample Depth: 11' Sample Matrix: Soil

Sample Location: sides of excavation

Sample Purpose: Field Screening

Number of Samples Taken: 4 Preservatives Used: ICE

Sample Method: Immnoassay TPH + BTEX, Headspace

Headspace Analysis: ND

Contaminated Action Level: >100 ppm TPH + >50 ppm BTEX

SAMPLE INFORMATION

Sample ID No.: CA92/13-96-1016-1444

Sample Depth: 12' Sample Matrix: Soil

Sample Location: Center of excavation

Sample Purpose: Field Screening

Number of Samples Taken: 1 Preservatives Used: ICE

Sample Method: Immnoassay TPH + BTEX, Headspace

Headspace Analysis: ND

Contaminated Action Level: >100 ppm TPH + >50 ppm BTEX

Notification for Underground Storage Tanks

USTB BUREAU/EPD
1190 St. Francis Drive
Santa Fe, NM 87503

I.D. Number

STATE USE ONLY

Date Received

GENERAL INFORMATION

Notification is required by Federal law for all underground tanks that have been used to store regulated substances since January 1, 1974, that are in the ground as of May 8, 1986, or that are brought into use after May 8, 1986. The information requested is required by Section 9002 of the Resource Conservation and Recovery Act (RCRA) as amended.

The primary purpose of this notification program is to locate and evaluate underground tanks that store or have stored petroleum or hazardous substances. It is expected that the information you provide will be based on reasonably available records, or, in the absence of such records, your knowledge, belief, or recollection.

Who Must Notify? Section 9002 of RCRA, as amended, requires that, unless exempted, owners of underground tanks that store regulated substances must notify designated State or local agencies of the existence of their tanks. Owner means—

(a) in the case of an underground storage tank in use on November 8, 1984, or brought into use after that date, any person who owns an underground storage tank used for the storage, use, or dispensing of regulated substances, and

(b) in the case of any underground storage tank in use before November 8, 1984, but no longer in use on that date, any person who owned such tank immediately before the discontinuation of its use.

What Tanks Are Included? Underground storage tank is defined as any one or combination of tanks that (1) is used to contain an accumulation of "regulated substances," and (2) whose volume (including connected underground piping) is 10% or more beneath the ground. Some examples are underground tanks storing: 1. gasoline, used oil, or diesel fuel, and 2. industrial solvents, pesticides, herbicides or fumigants.

What Tanks Are Excluded? Tanks removed from the ground are not subject to notification. Other tanks excluded from notification are:
1. farm or residential tanks of 1,100 gallons or less capacity used for storing motor fuel for noncommercial purposes;
2. tanks used for storing heating oil for consumptive use on the premises where stored;
3. septic tanks;
4. pipeline facilities (including gathering lines) regulated under the Natural Gas Pipeline Safety Act of 1968, or the Hazardous Liquid Pipeline Safety Act of 1979, or which is an intrastate pipeline facility regulated under State laws;
5. surface impoundments, pits, ponds, or lagoons;
6. storm water or wastewater collection systems;
7. flow-through process tanks;
8. liquid traps or associated gathering lines directly related to oil or gas production and gathering operations;
9. storage tanks situated in an underground area (such as a basement, cellar, mineworking, drift, shaft, or tunnel) if the storage tank is situated upon or above the surface of the floor.

What Substances Are Covered? The notification requirements apply to underground storage tanks that contain regulated substances. This includes any substance defined as hazardous in section 101 (14) of the Comprehensive Environmental Response, Compensation and Liability Act of 1980 (CERCLA), with the exception of those substances regulated as hazardous waste under Subtitle C of RCRA. It also includes petroleum, e.g., crude oil or any fraction thereof which is liquid at standard conditions of temperature and pressure (60 degrees Fahrenheit and 14.7 pounds per square inch absolute).

Where To Notify? Completed notification forms should be sent to the address given at the top of this page.

When To Notify? 1. Owners of underground storage tanks in use or that have been taken out of operation after January 1, 1974, but still in the ground, must notify by May 8, 1986. 2. Owners who bring underground storage tanks into use after May 8, 1986, must notify within 30 days of bringing the tanks into use.

Penalties: Any owner who knowingly fails to notify or submits false information shall be subject to a civil penalty not to exceed $10,000 for each tank for which notification is not given or for which false information is submitted.

INSTRUCTIONS

Please type or print in ink all items except "signature" in Section V. This form must by completed for each location containing underground storage tanks. If more than 5 tanks are owned at this location, photocopy the reverse side, and staple continuation sheets to this form.

Indicate number of continuation sheets attached: [ ]

I. OWNERSHIP OF TANK(S)

Owner Name (Corporation, Individual, Public Agency, or Other Entity): 27th CE/UP

Street Address: Curry III Engineers Way.

County: Cannon AFB

City: 505 State: NM ZIP Code: 88103

Area Code: 505 Phone Number: 784-6022

Type of Owner (Mark all that apply ☒)

- [ ] Current
- [ ] Former
- [ ] State or Local Gov't
- [x] Federal Gov't (GSA facility I.D. no.)
- [ ] Private or Corporate
- [ ] Ownership uncertain

II. LOCATION OF TANK(S)

(If same as Section 1, mark box here [x])

Facility Name or Company Site Identifier, as applicable

Street Address or State Road, as applicable

County

City (nearest) State ZIP Code

Indicate number of tanks at this location: 2

Mark box here if tank(s) are located on land within an Indian reservation or on other Indian trust lands: [ ]

III. CONTACT PERSON AT TANK LOCATION

Name (If same as Section I, mark box here [ ]): Troy Morales

Job Title: CQC Cheyenne Bldg. Cont INC.

Area Code: 505 Phone Number: 763-1410

IV. TYPE OF NOTIFICATION

[ ] Mark box here only if this is an amended or subsequent notification for this location.

V. CERTIFICATION (Read and sign after completing Section VI.)

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete.

Name and official title of owner or owner's authorized representative	Signature	Date Signed

CONTINUE ON REVERSE SIDE

Owner/Operator (from Section I) _____ Location (from Section II) _____ Page No. ____ of ____ Pages

VI. DESCRIPTION OF UNDERGROUND STORAGE TANKS (Complete for each tank at this location)

Tank Identification No. (e.g., ABC-123), or Arbitrarily Assigned Sequential Number (e.g., 1,2,3...)	Tank No.	Tank No.	Tank No.	Tank No.	Tank No.
1. Status of Tank (Mark all that apply ☒)					
Currently in Use	☐	☐	☐	☐	☐
Temporarily Out of Use	☐	☐	☐	☐	☐
Permanently Out of Use	☒	☐	☐	☐	☐
Brought into Use after 5/8/86	☐	☐	☐	☐	☐
2. Estimated Age (Years)	33				
3. Estimated Total Capacity (Gallons)	500				
4. Material of Construction (Mark one ☒)					
Steel	☒	☐	☐	☐	☐
Concrete	☒	☐	☐	☐	☐
Fiberglass Reinforced Plastic	☐	☐	☐	☐	☐
Unknown	☐	☐	☐	☐	☐
Other, Please Specify					
5. Internal Protection (Mark all that apply ☒)					
Cathodic Protection	☐	☐	☐	☐	☐
Interior Lining (e.g., epoxy resins)	☐	☐	☐	☐	☐
None	☒	☐	☐	☐	☐
Unknown	☐	☐	☐	☐	☐
Other, Please Specify					
6. External Protection (Mark all that apply ☒)					
Cathodic Protection	☐	☐	☐	☐	☐
Painted (e.g., asphaltic)	☐	☐	☐	☐	☐
Fiberglass Reinforced Plastic Coated	☐	☐	☐	☐	☐
None	☒	☐	☐	☐	☐
Unknown	☐	☐	☐	☐	☐
Other, Please Specify					
7. Piping (Mark all that apply ☒)					
Bare Steel	☒	☐	☐	☐	☐
Galvanized Steel	☐	☐	☐	☐	☐
Fiberglass Reinforced Plastic	☐	☐	☐	☐	☐
Cathodically Protected	☐	☐	☐	☐	☐
Unknown	☐	☐	☐	☐	☐
Other, Please Specify	Cast				
8. Substance Currently or Last Stored in Greatest Quantity by Volume (Mark all that apply ☒)					
a. Empty	☐	☐	☐	☐	☐
b. Petroleum					
Diesel	☐	☐	☐	☐	☐
Kerosene	☐	☐	☐	☐	☐
Gasoline (including alcohol blends)	☐	☐	☐	☐	☐
Used Oil	☐	☐	☐	☐	☐
Other, Please Specify	sludge/Cont Hzo				
c. Hazardous Substance	☐	☐	☐	☐	☐
Please Indicate Name of Principal CERCLA Substance					
OR Chemical Abstract Service (CAS) No.					
Mark box ☒ if tank stores a mixture of substances					
d. Unknown	☒	☐	☐	☐	☐
9. Additional Information (for tanks permanently taken out of service)					
a. Estimated date last used (mo/yr)	1988	/	/	/	/
Estimated quantity of substance remaining (gal.)	0				
Mark box ☒ if tank was filled with inert material (e.g., sand, concrete)	☐	☐	☐	☐	☐

EPA Form 7530-1 (11-85) Reverse

EXCAVATION CHECK LIST

Company: Cheyenne Bldg. Const	Date: 10-9-96
Site Location/Description: Bldg. 5120 SWMU 92	Time: 10:00 ☒ AM ☐ PM
Inspected by: Troy Moralez	Project Number: DACA47-95-D-0035

INSTRUCTIONS: Read the ITEM NUMBER and DESCRIPTION to determine the current conditions of this excavation site. Mark an (X) in the YES column if description is present and has been satisfied. Mark an (X) in the NO column if the item has not been completed. Mark a line (–) across the YES and NO columns if the ITEM does not apply. Use the NOTES section to list the ITEM NUMBER. Write any comments that apply to the ITEM NUMBER.

Item	DESCRIPTION	YES	NO	Item No.	DESCRIPTION	YES	NO
1	The utility company has been notified of excavation work schedule.	✓		19	Employees working below other employees in trench are protected from hazards.	✓	
2	Location of underground utility lines are identified.	✓		20	The trench is free of standing water.	✓	
3	Hazardous objects have been removed from excavation area or blocked securely.	✓		21	The proper water removal equipment is operating under guidance of competent person.	✓	
4	Soil type is classified.	✓		22	Diversion ditches or dikes are in place to prevent surface water from entering trench.	✓	
5	Sloping and Benching system is designed per OSHA requirements.	✓		23	The trench is inspected by competent person following any amount of rain.	✓	
6	Timber shoring system is designed per OSHA requirements.	✓		24	Employees are wearing proper safety equipment.	✓	
7	Aluminum Hydraulic shoring system is designed per OSHA requirements.	✓		25	Test air quality in trench if a hazardous atmosphere is suspected.	✓	
8	Shielding system is designed per OSHA requirements.	✓		26	A ventilation or respiratory protection is in use.	✓	
9	Shields are free from damage or defects.	✓		27	Protective support systems are installed from the top down.	✓	
10	Employees are protected from cave-ins when entering and exiting the shield.	✓		28	Protective support systems are dismantled from the bottom up.	✓	
	When a combination of sloping and shielding is used, the shield must extend 18 inches above the bottom slope of the excavation.	✓		29	Excavation is backfilled as the protective system is dismantled.	✓	
12	A ladder is provided and secured in trench four or more feet deep; top of ladder extending at least 36 inches above edge of trench.	✓		30	Heavy equipment is mounted on wooden mats to distribute weight.	✓	
13	A ladder is within 25 feet of all employees working in trench	✓		31	Damaged materials or equipment are removed from service.	✓	
14	Excavated material is stored at least two feet from the edge of the excavation.	✓		32	An emergency response program is in place.	✓	
15	Employees are protected from loose material which could fall into trench.	✓		33	Life support equipment is in working order.	✓	
16	A competent person inspects the trench prior to the start of the shift.	✓		34	Note other conditions. CGI = 2% LEL		
17	The location of trench is marked by banners, barricades or other signals.	✓		35	Oxygen = 21% PID = 0.0 PPM VOC		
18	Bridges or walkways over excavations are equipped with guardrails and toeboards.	NA		36			

Notes: ZMS

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46577

MISCELLANEOUS- Chg 5-00
PEAVEY COMPANY
505 East 1st Street
Clovis, N.M. 88101

☐ IN ☐ OUT

Date _____

Name L.C.I. 2

Purpose _____

Gross

30860 lb 10-30-96 2:43PM

Tare

Remarks Asphalt Disposal 330

Net

16520 lb 10-30-96 3:09PM

14340

☐ ON
☐ OFF

Weigher _____

Driver Randy Bryant

46575

MISCELLANEOUS-
PEAVEY COMPANY
505 East 1st Street
Clovis, N.M. 88101

☐ IN ☐ OUT

Date _____

Name LCI 2 INC

Purpose _____

Gross

31260 lb 10-30-96 1:37PM

Tare

Net

16560 lb 10-30-96 2:14PM

14,700

Remarks Concrete disposal
Eldad 92

☐ ON
☐ OFF

Weigher Chuck

Driver Randy Bryant

Data Sheet for PETRO RISC® SamplePro Test

Operator: Troy Moralez Date: 10-15-96 Location: Swmu 92

Sample ID	Low Test Level ΔOD Standards	Low Test Level OD sample ____ ppm	Low Test Level Interpretation	High Test Level ΔOD Standards	High Test Level OD sample ____ ppm	High Test Level Interpretation	Comments
CA92/1-96-1015-1424	-0.02	0.46	< 15 PPM	-0.01	0.94	<100 PPM	
CA92/2-96-1015-1425	-0.02	0.38	< 15 PPM	-0.01	0.99	<100 PPM	
CA92/3-96-1015-1426	-0.02	0.34	<15 PPM	-0.01	0.87	<100 PPM	
CA92/4-96-1015-1427	-0.02	0.30	<15 PPM	-0.01	0.56	<100 PPM	
CA92/5-96-1015-1428	-0.06	0.36	< 15 PPM	-0.29	0.04	<100 PPM	
CA92/6-96-1015-1429	-0.06	0.69	< 15 PPM	-0.29	0.24	<100 PPM	
CA92/8-96-1015-1431	-0.06	0.98	< 15 PPM	-0.29	0.31	<100 PPM	
CA92/9-96-1016-1440	-0.01	0.79	<15 PPM	-0.0	0.17	<100 PPM	
CA92/10-96-1016-1441	-0.01	0.28	<15 PPM	-0.0	0.30	<100 PPM	
CA92/11-96-1016-1442	-0.01	0.55	<15 PPM	-0.0	0.58	<100 PPM	
CA92/12-96-1016-1443	-0.01	0.40	<15 PPM	-0.0	0.36	<100 PPM	
CA92/13-96-1016-1444	-0.01	0.75	<15 PPM	-0.0	0.22	<100 PPM	
CA92/14-96-1016-1445	-0.01	0.52	<15 PPM	-0.0	0.33	<100 PPM	

DATA SHEET
ENVIROGARD PETROLEUM FUELS (BTEX) IN SOIL TEST KIT

	OD VALUE
Negative Control	1.49
10 ppm BTEX Calibrator	1.35
50 ppm BTEX Calibrator	0.93
300 ppm BTEX Calibrator	0.41

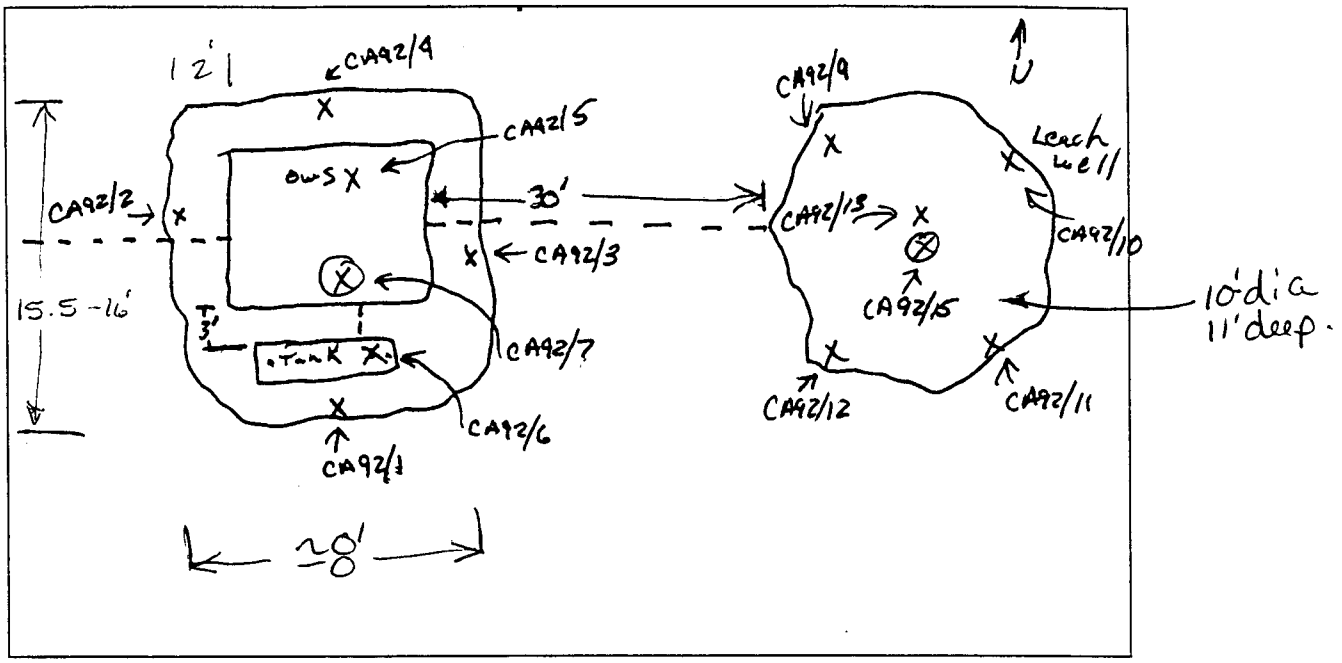
SAMPLE ID	OD VALUE	INTERPRETATION
CA92/1-96-1015-1424	1.41	< 10 PPM BTEX
CA92/2-96-1015-1425	1.27	>10 <50 PPM BTEX
CA92/3-96-1015-1426	1.36	<10 PPM BTEX
CA92/4-96-1015-1427	1.09	>10 <50 PPM BTEX
CA92/5-96-1015-1428	1.25	>10 <50 PPM BTEX
CA92/6-96-1015-1429	1.05	>10 <50 PPM BTEX
CA92/8-96-	NT	

DATA SHEET
ENVIROGARD PETROLEUM FUELS (BTEX) IN SOIL TEST KIT

	OD VALUE
Negative Control	1.33
10 ppm BTEX Calibrator	1.06
50 ppm BTEX Calibrator	0.82
300 ppm BTEX Calibrator	0.37

SAMPLE ID	OD VALUE	INTERPRETATION
CA92/8-96-1015-1431	1.13	<10 PPM BTEX
CA92/9-96-1016-1440	1.22	<10 PPM BTEX
CA92/10-96-1016-1441	1.09	<10 PPM BTEX
CA92/11-96-1016-1442	1.07	<10 PPM BTEX
CA92/12-96-1016-1443	1.11	<10 PPM BTEX
CA92/13-96-1016-1444	1.09	<10 PPM BTEX
CA92/14-96-1016-1445	1.10	<10 PPM BTEX

SKETCH:



OWS/Field Screening: CA92/1 thru CA92/6

Leach Well/Field Screening: CA92/9 thru CA92/13

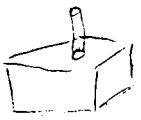
Confirmatory: CA92/7 + CA92/15

Correlation: CA92/2 + CA92/4

Excavated material Confirmatory: CA92/8 + CA92/14

UST: 27" dia x 49" L

LW: 64" x 64" x 3' (concrete cap)
4" thick. The cap was a bottom-less box.



NK CLOSURE WORKSHEE
(COMPLETE AFTER CLOSURE)

Tank Owner 27th CE/UP Phone 784-6022
Mailing Address 111 Engineers Way Cannon AFB NM 88103
Tank Address Bldg. 5120
Contractor Name Cheyenne Bldg. Cont. INC. Phone 763-1410
Address 1712 S Prince St. CLOVIS NM 88101
Contractor Name _____ Phone _____
Address _____

Tank Closure Date 10-9-96 # of Tanks Closed 2

****

I. Tank Closure Initial Procedures (check measures complied with):
- ✓ Obtain recommended safety equipment for all personnel
- ✓ Contact Fire Marshall or other fire officials
- ✓ Bond or ground equipment
- ✓ Drain product from piping and tank
- ✓ Disconnect, then cap or remove piping
- ✓ Remove all residual product from tank
- ✓ Excavate to tank top
- ✓ Remove all tank fixtures
- ✓ Properly purge or inert tank of all flammable vapors using approved method
- ✓ Continually monitor for explosive vapors while tank is being removed

II. Tank Removal
- ✓ Create vent hole
- ✓ Excavate tank using all safety precautions
- ✓ Clean and inspect tank
- ✓ Check excavation for evidence of leaks and notify EID and other proper authorities if leak is found
- ✓ Check vapor levels in tank before transporting
- ✓ Dispose of tank in approved manner

Tank disposal location Landfill CLOVIS NM 88101
City State
How did you assess site for leakage? Field Screening & Lab Analysis
Closure report kept at 111 Engineers Way. Cannon AFB NM 88103
NOTE: Immediately report any evidence of leakage to EID at 827-0188

I hereby state that the above information is correct

[signature] CQC Cheyenne Bldg. Cont. INC.
Signature of owner or contractor performing work

****

FOR EID USE ONLY
Notification Received _____ Approved By _____
Inspection Date _____ Inspector _____

SAMPLE INFORMATION

Sample ID No.: CA92/1-96-1015-1424, CA92/2-96-1015-1425, CA92/3-96-1015-1426
CA92/4-96-1015-1427

Sample Depth: 9' Sample Matrix: Soil

Sample Location: Sides of excavation

Sample Purpose: Field Screening

Number of Samples Taken: 4 Preservatives Used: ICE

Sample Method: Immunoassay TPH+BTEX, Headspace

Headspace Analysis: ND

Contaminated Action Level: >100PPM TPH + >50 PPM BTEX

SAMPLE INFORMATION

Sample ID No.: CA92/5-96-1015-1428 + CA92/6-96-1015-1429

Sample Depth: 10' Sample Matrix: Soil

Sample Location: Bottom of excavation

Sample Purpose: Field Screening

Number of Samples Taken: 2 Preservatives Used: ICE

Sample Method: Immunoassay TPH+BTEX, Headspace

Headspace Analysis: ND

Contaminated Action Level: >100 PPM TPH + >50 PPM BTEX

SAMPLE INFORMATION

Sample ID No.: CA92/7-96-1015-1430 + CA92/15-96-1016-1446

Sample Depth: CA92/7 = 10' CA92/15 = 12' Sample Matrix: Soil

Sample Location: Bottom of excavation

Sample Purpose: Confirmatory Closure

Number of Samples Taken: 4 Preservatives Used: ICE

Sample Method: 8015, 8260, 8270, 7470 + 6010 using 1311 Extraction

Headspace Analysis: UT

Contaminated Action Level:

SAMPLE INFORMATION

Sample ID No.: CA92/8-96-1015-1431 + CA92/14-96-1016-1445

Sample Depth: composite Sample Matrix: Soil

Sample Location: excavated material

Sample Purpose: Disposal

Number of Samples Taken: 2 Preservatives Used: ICE

Sample Method: 1311, Immunoassay TPH + BTEX, Headspace

Headspace Analysis: ND

Contaminated Action Level: >100 PPM TPH + >50 PPM BTEX

The area appeared to be clean. There was no stained soil. The leach well was very large. The contractor excavated an area of ≈ 10' in diameter and 11' deep. The Rocks from the leach well looked very clean. After talking w/ the Base (Sanford) we were told not to excavate the remain Rocks from the leach well if the field test came back clean. The field test came back clean and backfill + compaction began.

CHEYENNE BUILDING CONTRACTORS, INC.
QUALITY CONTROL FIELD NOTES
UNIT REMOVAL AT CANNON AFB, NM
CONTRACT NO.: DACA47-95-D-0035

DATE: 10/23/96
TIME: 9:00 AM
WEATHER: Calm
TEMP.: 60°

UNIT INFORMATION

Unit Owner: U.S. Army Corp of Engineers Phone No.: 505-784-4351

Address: P.O. Box 1580 Albuquerque, NM 87103

Bldg. No.: 186 SWMU No.: 33b

Date Installed: _____ Date Last Used: _____

Units Association with Facility: Solid Waste Management Unit

Unit Width: 6' Unit Length: 6' Unit Depth: 7'

Unit Contents: Water / Sludge Gallons Removed: 532

Type of Ground Cover: Asphalt + Concrete

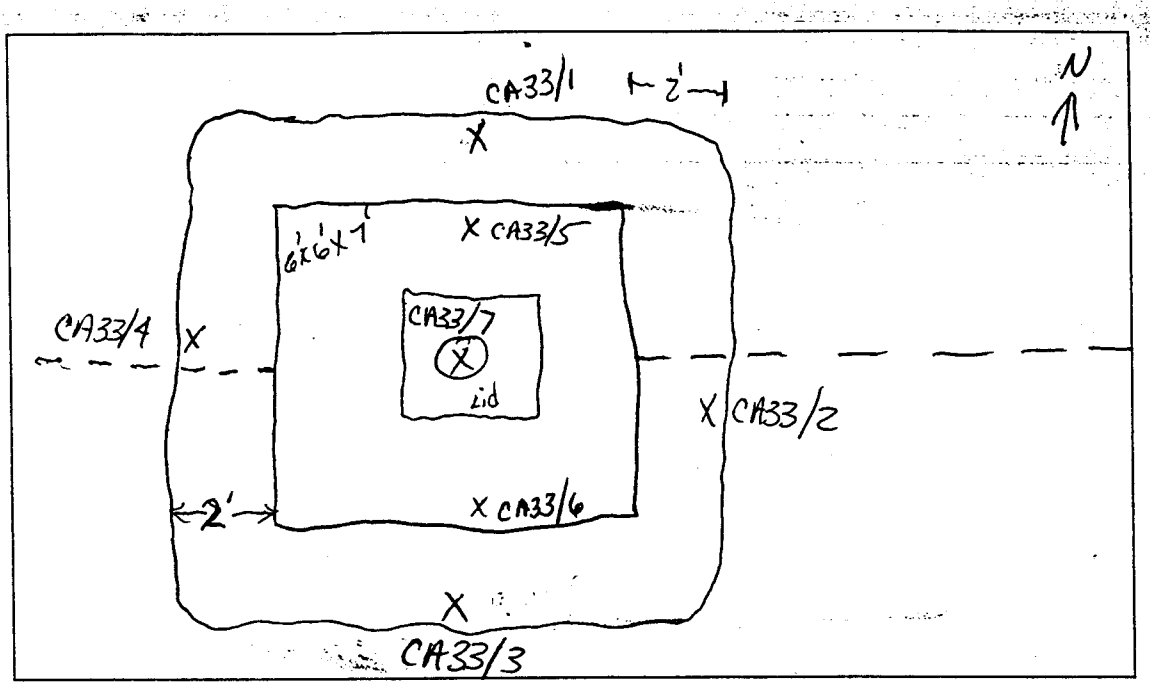
Petroleum Odors: YES ☐ NO ☒

Visual Characterization of Soil: Clean

Evidence of a Spill: YES ☐ NO ☒

Other Potential Sources of Contamination: leaking Pipes

SKETCH: SWMU 336



CA33/1 thru CA33/6 : Field Screening Samples

CA33/7 : Confirmatory Sample

CA33/8 : Excavated material / Confirmatory

CA33/2 + CA33/6 : Correlation Samples

EXCAVATION CHECK LIST

Company Cheyenne	Date 10/24/96
Site Location/Description SWMU 33b Bldg. 186	Time 9:00 ☒ AM ☐ PM
ected by Troy Morales	Project Number DACA47-95-D-0035

RUCTIONS: Read the ITEM NUMBER and DESCRIPTION to determine the current conditions of this excavation site. Mark an (X) in the YES column if e description is present and has been satisfied. Mark an (X) in the NO column if the item has not been completed. Mark a line (–) across the YES and No columns if the ITEM does not apply. Use the NOTES section to list the ITEM NUMBER. Write any comments that apply to the ITEM NUMBER.

Item	DESCRIPTION	YES	NO	Item No.	DESCRIPTION	YES	NO
1	The utility company has been notified of excavation work schedule.	✓		19	Employees working below other employees in trench are protected from hazards.	✓	
2	Location of underground utility lines are identified.	✓		20	The trench is free of standing water.	✓	
3	Hazardous objects have been removed from excavation area or blocked securely.	✓		21	The proper water removal equipment is operating under guidance of competent person.	✓	
4	Soil type is classified.	✓		22	Diversion ditches or dikes are in place to prevent surface water from entering trench.	✓	
5	Sloping and Benching system is designed per OSHA requirements.	✓		23	The trench is inspected by competent person following any amount of rain.	✓	
6	Timber shoring system is designed per OSHA requirements.	✓		24	Employees are wearing proper safety equipment.	✓	
7	Aluminum Hydraulic shoring system is designed per OSHA requirements.	✓		25	Test air quality in trench if a hazardous atmosphere is suspected.	✓	
8	Shielding system is designed per OSHA requirements.	✓		26	A ventilation or respiratory protection is in use.	✓	
9	Shields are free from damage or defects.	✓		27	Protective support systems are installed from the top down.	✓	
10	Employees are protected from cave-ins when entering and exiting the shield.	✓		28	Protective support systems are dismantled from the bottom up.	✓	
11	When a combination of sloping and shielding is used, the shield must extend 18 inches above the bottom slope of the excavation.	✓		29	Excavation is backfilled as the protective system is dismantled.	✓	
12	A ladder is provided and secured in trench four or more feet deep; top of ladder extending at least 36 inches above edge of trench.	✓		30	Heavy equipment is mounted on wooden mats to distribute weight.	✓	
13	A ladder is within 25 feet of all employees working in trench	✓		31	Damaged materials or equipment are removed from service.	✓	
14	Excavated material is stored at least two feet from the edge of the excavation.	✓		32	An emergency response program is in place.	✓	
15	Employees are protected from loose material which could fall into trench.	✓		33	Life support equipment is in working order.	✓	
16	A competent person inspects the trench prior to the start of the shift.	✓		34	Note other conditions. LEL < 2% Oxy = 21%		
17	The location of trench is marked by banners, barricades or other signals.	✓		35	CGI = PID = 0.0 PPM VOC		
18	Bridges or walkways over excavations are equipped with guardrails and toeboards.	✓		36			

Notes:

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CHEYENNE
BUILDING CONTRACTORS INC.
O. BOX 418
OVIS, NEW MEXICO 88102-0418
(505) 769-9019 • FAX (505) 769-2588
GB98
LIC. NO. 30759

CERTIFICATE OF VAPOR TESTING

DATE 10-24-96

TANK OWNER 27th CE PHONE

ADDRESS 111 Engineers Way Cannon AFB, NM 88103

CONTRACTOR REMOVING TANK Cheyenne

ADDRESS 1712 Prince St CLOVIS NM 88101 PHONE 763-1410

CHEYENNE BUILDERS IS CERTIFIED CONTRACTOR IN VAPOR TESTING.

I Troy Moralez HEREBY CERTIFY THAT ~~TANK~~ unit 33b AT Bldg. 186 IS FREE FROM COMBUSTIBLE MATERIAL.

TROY MORALEZ

MIKE LANDGRAF

DATA SHEET
ENVIROGARD PETROLEUM FUELS (BTEX) IN SOIL TEST KIT

	OD VALUE
Negative Control	0.82
10 ppm BTEX Calibrator	0.63
50 ppm BTEX Calibrator	0.45
300 ppm BTEX Calibrator	0.23

SAMPLE ID	OD VALUE	INTERPRETATION
CA33/1-96-1025-1400	0.72	< 10 PPM BTEX
CA33/2-96-1025-1401	0.71	< 10 PPM BTEX
CA33/3-96-1025-1402	0.81	< 10 PPM BTEX
CA33/4-96-1025-1403	0.80	< 10 PPM BTEX
CA33/5-96-1025-1404	0.82	ND
CA33/6-96-1025-1405	0.74	< 10 PPM BTEX
CA33/8-96-1025-1407	0.63	10 PPM BTEX

DATA SHEET
ENVIROGARD PETROLEUM FUELS
(TPH) IN SOIL TEST KIT

	OD VALUE
Negative Control	1.01
20 ppm BTEX Calibrator	0.71
100 ppm BTEX Calibrator	0.40
600 ppm BTEX Calibrator	0.18

SAMPLE ID	OD VALUE	INTERPRETATION
CA33/1-96-1025-1400	0.89	<20 PPM TPH
CA33/2-96-1025-1401	0.91	<20 PPM TPH
CA33/3-96-1025-1402	0.93	<20 PPM TPH
CA33/4-96-1025-1403	0.97	<20 PPM TPH
CA33/5-96-1025-1404	1.01	ND
CA33/6-96-1025-1405	0.85	<20 PPM TPH
CA33/8-96-1025-1405	0.78	<20 PPM TPH

SAMPLE INFORMATION

Sample ID No.: CA33/2-96-1025-1401

Sample Depth: 8' Sample Matrix: Soil

Sample Location: Bottom of excavation

Sample Purpose: Field Screening / lab analysis correlation

Number of Samples Taken: 2 Preservatives Used: ICE

Sample Method: 8015 MOD + 8020

Headspace Analysis: 0.1 ppm

Contaminated Action Level: 7100 ppm TPH + 750 ppm BTEX

SAMPLE INFORMATION

Sample ID No.: CA33/6-96-1025-1405

Sample Depth: 9' Sample Matrix: Soil

Sample Location: Bottom of excavation

Sample Purpose: Field screening / lab analysis correlation

Number of Samples Taken: 1 Preservatives Used: ICE

Sample Method: 8015 MOD + 8020

Headspace Analysis: 0.3 ppm

Contaminated Action Level: 7100 ppm TPH + 750 ppm BTEX

SAMPLE INFORMATION

Sample ID No.: CA33/7-96-1025-1406

Sample Depth: 9' Sample Matrix: Soil

Sample Location: Center of excavation

Sample Purpose: Confirmatory Closure

Number of Samples Taken: 4 Preservatives Used: ICE

Sample Method: 8015, 8260, 8270, 6010 + 7470 using 1311 Extraction

Headspace Analysis: NT

Contaminated Action Level:

SAMPLE INFORMATION

Sample ID No.: CA33/8-96-1025-1407

Sample Depth: Composite Sample Matrix: Soil

Sample Location: Excavated Material

Sample Purpose: Disposal

Number of Samples Taken: 2 Preservatives Used: ICE

Sample Method: 6010 + 7470 using 1311, Immunoassay TPH + BTEX, HS

Headspace Analysis:

Contaminated Action Level: > 100 ppm TPH + > 50 ppm BTEX

SAMPLE INFORMATION

Sample ID No.: CA33/1-96-1025-1400, CA33/2-96-1025-1401, CA33/3-96-1025-1402
CA33/4-96-1025-1403

Sample Depth: 8' Sample Matrix: Soil

Sample Location: Bottom sides of excavation

Sample Purpose: Field Screening

Number of Samples Taken: 4 Preservatives Used: ICE

Sample Method: Immoassay TPH+BTEX, Headspace

Headspace Analysis: CA33/1=0.0ppm, CA33/2=0.1ppm, CA33/3=0.0ppm, CA33/4=0.0ppm

Contaminated Action Level: >100 ppm TPH + >750 ppm BTEX

SAMPLE INFORMATION

Sample ID No.: CA33/5-96-1025-1404, CA33/6-96-1025-1405

Sample Depth: 9' Sample Matrix: Soil

Sample Location: Bottom of Excavation

Sample Purpose: Field Screening

Number of Samples Taken: 2 Preservatives Used: ICE

Sample Method: Immoassay TPH+BTEX, Headspace

Headspace Analysis: CA33/5=0.0ppm, CA33/6=0.3ppm

Contaminated Action Level: >100 ppm TPH, >750 ppm BTEX

Notification for Underground Storage Tanks

UST BUREAU/EID
1190 St. Francis Drive
Santa Fe, NM 87503

STATE USE ONLY
I.D. Number
Date Received

GENERAL INFORMATION

Notification is required by Federal law for all underground tanks that have been used to store regulated substances since January 1, 1974, that are in the ground as of May 8, 1986, or that are brought into use after May 8, 1986. The information requested is required by Section 9002 of the Resource Conservation and Recovery Act (RCRA), as amended.

The primary purpose of this notification program is to locate and evaluate underground tanks that store or have stored petroleum or hazardous substances. It is expected that the information you provide will be based on reasonably available records, or, in the absence of such records, your knowledge, belief, or recollection.

Who Must Notify? Section 9002 of RCRA, as amended, requires that, unless exempted, owners of underground tanks that store regulated substances must notify designated State or local agencies of the existence of their tanks. Owner means—

(a) in the case of an underground storage tank in use on November 8, 1984, or brought into use after that date, any person who owns an underground storage tank used for the storage, use, or dispensing of regulated substances, and

(b) in the case of any underground storage tank in use before November 8, 1984, but no longer in use on that date, any person who owned such tank immediately before the discontinuation of its use.

What Tanks Are Included? Underground storage tank is defined as any one or combination of tanks that (1) is used to contain an accumulation of "regulated substances," and (2) whose volume (including connected underground pipings) is 10% or more beneath the ground. Some examples are underground tanks storing: 1. gasoline, used oil, or diesel fuel, and 2. industrial solvents, pesticides, herbicides or fumigants.

What Tanks Are Excluded? Tanks removed from the ground are not subject to notification. Other tanks excluded from notification are:
1. farm or residential tanks of 1,100 gallons or less capacity used for storing motor fuel for noncommercial purposes;
2. tanks used for storing heating oil for consumptive use on the premises where stored;
3. septic tanks;
4. pipeline facilities (including gathering lines) regulated under the Natural Gas Pipeline Safety Act of 1968, or the Hazardous Liquid Pipeline Safety Act of 1979, or which is an intrastate pipeline facility regulated under State laws;
5. surface impoundments, pits, ponds, or lagoons;
6. storm water or wastewater collection systems;
7. flow-through process tanks;
8. liquid traps or associated gathering lines directly related to oil or gas production and gathering operations;
9. storage tanks situated in an underground area (such as a basement, cellar, mineworking, drift, shaft, or tunnel) if the storage tank is situated upon or above the surface of the floor.

What Substances Are Covered? The notification requirements apply to underground storage tanks that contain regulated substances. This includes any substance defined as hazardous in Section 101 (14) of the Comprehensive Environmental Response, Compensation and Liability Act of 1980 (CERCLA), with the exception of those substances regulated as hazardous waste under Subtitle C of RCRA. It also includes petroleum, e.g., crude oil or any fraction thereof which is liquid at standard conditions of temperature and pressure (60 degrees Fahrenheit and 14.7 pounds per square inch absolute).

Where To Notify? Completed notification forms should be sent to the address given at the top of this page.

When To Notify? 1. Owners of underground storage tanks in use or that have been taken out of operation after January 1, 1974, but still in the ground, must notify by May 8, 1986. 2. Owners who bring underground storage tanks into use after May 8, 1986, must notify within 30 days of bringing the tanks into use.

Penalties: Any owner who knowingly fails to notify or submits false information shall be subject to a civil penalty not to exceed $10,000 for each tank for which notification is not given or for which false information is submitted.

INSTRUCTIONS

Please type or print in ink all items except "signature" in Section V. This form must by completed for each location containing underground storage tanks. If more than 5 tanks are owned at this location, photocopy the reverse side, and staple continuation sheets to this form.

Indicate number of continuation sheets attached ☐

I. OWNERSHIP OF TANK(S)

Owner Name (Corporation, Individual, Public Agency, or Other Entity): 27th CE

Street Address: 111 Engineers Way

County: Curry

City: Cannon AFB State: NM ZIP Code: 88103

Area Code: 505 Phone Number: 784 -

Type of Owner (Mark all that apply ☒)

☐ Current ☐ State or Local Govt ☐ Private or Corporate
☐ Former ☒ Federal Govt (GSA facility I.D. no.) ☐ Ownership uncertain

II. LOCATION OF TANK(S)

(If same as Section 1, mark box here ☐)

Facility Name or Company Site Identifier, as applicable: Bldg. 186 SWMU 336

Street Address or State Road, as applicable:

County:

City (nearest): State: ZIP Code:

Indicate number of tanks at this location: 07

Mark box here if tank(s) are located on land within an Indian reservation or on other Indian trust lands ☐

III. CONTACT PERSON AT TANK LOCATION

Name (If same as Section I, mark box here ☐): Troy Montez Job Title: CQC Cheyenne Bldg. Const. INC Area Code: 505 Phone Number: 763-1410

IV. TYPE OF NOTIFICATION

☐ Mark box here only if this is an amended or subsequent notification for this location.

V. CERTIFICATION (Read and sign after completing Section VI.)

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete.

Name and official title of owner or owner's authorized representative: Signature: Date Signed:

CONTINUE ON REVERSE SIDE

Owner Name (from Section I) _____ Location (from Section II) _____ Page No. ___ of ___ Pages

V. DESCRIPTION OF UNDERGROUND STORAGE TANKS (Complete for each tank at this location)

Tank Identification No. (e.g., ABC-123), or Arbitrarily Assigned Sequential Number (e.g., 1,2,3...)	Tank No.	Tank No.	Tank No.	Tank No.	Tank No.
1. Status of Tank (Mark all that apply ☒) Currently in Use	☐	☐	☐	☐	☐
Temporarily Out of Use	☐	☐	☐	☐	☐
Permanently Out of Use	☒	☐	☐	☐	☐
Brought into Use after 5/8/86	☐	☐	☐	☐	☐
2. Estimated Age (Years)					
3. Estimated Total Capacity (Gallons)					
4. Material of Construction (Mark one ☒) Steel	☐	☐	☐	☐	☐
Concrete	☒	☐	☐	☐	☐
Fiberglass Reinforced Plastic	☐	☐	☐	☐	☐
Unknown	☐	☐	☐	☐	☐
Other, Please Specify					
5. Internal Protection (Mark all that apply ☒) Cathodic Protection	☐	☐	☐	☐	☐
Interior Lining (e.g., epoxy resins)	☐	☐	☐	☐	☐
None	☒	☐	☐	☐	☐
Unknown	☐	☐	☐	☐	☐
Other, Please Specify					
6. External Protection (Mark all that apply ☒) Cathodic Protection	☐	☐	☐	☐	☐
Painted (e.g., asphaltic)	☐	☐	☐	☐	☐
Fiberglass Reinforced Plastic Coated	☐	☐	☐	☐	☐
None	☒	☐	☐	☐	☐
Unknown	☐	☐	☐	☐	☐
Other, Please Specify					
7. Piping (Mark all that apply ☒) Bare Steel	☐	☐	☐	☐	☐
Galvanized Steel	☐	☐	☐	☐	☐
Fiberglass Reinforced Plastic	☐	☐	☐	☐	☐
Cathodically Protected	☐	☐	☐	☐	☐
Unknown	☐	☐	☐	☐	☐
Other, Please Specify	Cast Iron				
8. Substance Currently or Last Stored in Greatest Quantity by Volume (Mark all that apply ☒) a. Empty	☐	☐	☐	☐	☐
b. Petroleum					
Diesel	☐	☐	☐	☐	☐
Kerosene	☐	☐	☐	☐	☐
Gasoline (including alcohol blends)	☐	☐	☐	☐	☐
Used Oil	☐	☐	☐	☐	☐
Other, Please Specify	H2O/Stale				
c. Hazardous Substance	☐	☐	☐	☐	☐
Please Indicate Name of Principal CERCLA Substance OR Chemical Abstract Service (CAS) No.					
Mark box ☒ if tank stores a mixture of substances	☒	☐	☐	☐	☐
d. Unknown	☐	☐	☐	☐	☐
9. Additional Information (for tanks permanently taken out of service) a. Estimated date last used (mo/yr)	10/96				
Estimated quantity of substance remaining (gal.)	0				
b. Mark box ☒ if tank was filled with inert material (e.g., sand, concrete)	☐	☐	☐	☐	☐

ANK CLOSURE WORKSHEET
(COMPLETE AFTER CLOSURE)

Tank Owner 27th CE Phone
Mailing Address 111 Engineers Way Cannon AFB NM 88103
Tank Address Bldg. 186 Sumu 33b
Contractor Name Cheyenne Bldg. Cont. Inc. Phone 763-1410
Address 1712 Prince St Clovis NM 88101
Contractor Name Phone
Address

Tank Closure Date 10-25-96 # of Tanks Closed 1

****

I. Tank Closure Initial Procedures (check measures complied with):
- ✓ Obtain recommended safety equipment for all personnel
- ✓ Contact Fire Marshall or other fire officials
- ✓ Bond or ground equipment
- ✓ Drain product from piping and tank
- ✓ Disconnect, then cap or remove piping
- ✓ Remove all residual product from tank
- ✓ Excavate to tank top
- ✓ Remove all tank fixtures
- ✓ Properly purge or inert tank of all flammable vapors using approved method
- ✓ Continually monitor for explosive vapors while tank is being removed

II. Tank Removal
- ✓ Create vent hole
- ✓ Excavate tank using all safety precautions
- ✓ Clean and inspect tank
- ✓ Check excavation for evidence of leaks and notify EID and other proper authorities if leak is found
- ✓ Check vapor levels in tank before transporting
- ✓ Dispose of tank in approved manner

Tank disposal location Landfill Clovis NM 88101
City State

How did you assess site for leakage? Field Screening / lab analysis
Closure report kept at 111 Engineers Way, Cannon AFB NM 88103
NOTE: Immediately report any evidence of leakage to EID at 827-0188

I hereby state that the above information is correct

Cheyenne Bldg Cont Inc.
Signature of owner or contractor performing work

****

FOR EID USE ONLY
Notification Received Approved By
Inspection Date Inspector

SWMU 33b appeared to be leaking around inlet and outlet pipes. The soil was ~~sta~~ stained a gray/black color. After 2' of soil was removed around the unit, ~~#~~ field sampling showed that the area ~~was~~ to be clean. The inlet and outlet pipes were grouted with a two foot plug. The drains (4 drains) in the building were also grouted with 2' plugs.

CHEYENNE BUILDING CONTRACTORS, INC.
QUALITY CONTROL FIELD NOTES
UNIT REMOVAL AT CANNON AFB, NM
CONTRACT NO.: DACA47-95-D-0035

DATE: 11-4-96
TIME: 10:00AM
WEATHER: Mild
TEMP.: 59°

UNIT INFORMATION

Unit Owner: U.S. Army Corp of Engineers Phone No.: 505-784-4351

Address: P.O. Box 1580 Albuquerque, NM 87103

Bldg. No.: 170 SWMU No.: 11

Date Installed: 1963 Date Last Used: 1989

Units Association with Facility: Solid waste management Unit for bldg. 170.

Unit Width: 7' Unit Length: 5' Unit Depth: 5'

Unit Contents: water/sludge Gallons Removed: 582.33

Type of Ground Cover: Asphalt

Petroleum Odors: YES ☐ NO ☒

Visual Characterization of Soil: Clean

Evidence of a Spill: YES ☐ NO ☒

Other Potential Sources of Contamination: leaking pipes

EXCAVATION CHECK LIST

Company Cheyenne	Date 11-9-96
Site Location/Description SWMU 11 Bldg. 170	Time 10:00 ☒ AM ☐ PM
Inspected by Troy Morales	Project Number DACA47-95-D-0035

INSTRUCTIONS: Read the ITEM NUMBER and DESCRIPTION to determine the current conditions of this excavation site. Mark an (X) in the YES column if description is present and has been satisfied. Mark an (X) in the NO column if the item has not been completed. Mark a line (–) across the YES and No columns if the ITEM does not apply. Use the NOTES section to list the ITEM NUMBER. Write any comments that apply to the ITEM NUMBER.

Item	DESCRIPTION	YES	NO	Item No.	DESCRIPTION	YES	NO
1	The utility company has been notified of excavation work schedule.	✓		19	Employees working below other employees in trench are protected from hazards.	✓	
2	Location of underground utility lines are identified.	✓		20	The trench is free of standing water.	✓	
3	Hazardous objects have been removed from excavation area or blocked securely.	✓		21	The proper water removal equipment is operating under guidance of competent person.	✓	
4	Soil type is classified.	✓		22	Diversion ditches or dikes are in place to prevent surface water from entering trench.	✓	
5	Sloping and Benching system is designed per OSHA requirements.	✓		23	The trench is inspected by competent person following any amount of rain.	✓	
6	Timber shoring system is designed per OSHA requirements.	✓		24	Employees are wearing proper safety equipment.	✓	
7	Aluminum Hydraulic shoring system is designed per OSHA requirements.	✓		25	Test air quality in trench if a hazardous atmosphere is suspected.	✓	
8	Shielding system is designed per OSHA requirements.	✓		26	A ventilation or respiratory protection is in use.	✓	
9	Shields are free from damage or defects.	✓		27	Protective support systems are installed from the top down.	✓	
10	Employees are protected from cave-ins when entering and exiting the shield.	✓		28	Protective support systems are dismantled from the bottom up.	✓	
	When a combination of sloping and shielding is used, the shield must extend 18 inches above the bottom slope of the excavation.	✓		29	Excavation is backfilled as the protective system is dismantled.	✓	
12	A ladder is provided and secured in trench four or more feet deep; top of ladder extending at least 36 inches above edge of trench.	✓		30	Heavy equipment is mounted on wooden mats to distribute weight.	✓	
13	A ladder is within 25 feet of all employees working in trench	✓		31	Damaged materials or equipment are removed from service.	✓	
14	Excavated material is stored at least two feet from the edge of the excavation.	✓		32	An emergency response program is in place.	✓	
15	Employees are protected from loose material which could fall into trench.	✓		33	Life support equipment is in working order.	✓	
16	A competent person inspects the trench prior to the start of the shift.	✓		34	Note other conditions. CGI <20% LEL PID: 0.0PPM		
17	The location of trench is marked by banners, barricades or other signals.	✓		35	Oxygen 21%		
18	Bridges or walkways over excavations are equipped with guardrails and toeboards.	✓		36			

Notes:

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CHEYENNE
BUILDING CONTRACTORS INC.

P. BOX 418
OVIS, NEW MEXICO 88102-0418
(505) 769-9019 • FAX (505) 769-2588

GB98
LIC. NO. 30759

CERTIFICATE OF VAPOR TESTING

DATE 11/7/96

TANK OWNER 27th CE/UP PHONE 784-6022

ADDRESS 111 Engineers Way Cannon AFB NM 88103

CONTRACTOR REMOVING TANK Cheyenne

ADDRESS PO Box 418 Clovis NM 88101 PHONE 769-9216

CHEYENNE BUILDERS IS CERTIFIED CONTRACTOR IN VAPOR TESTING.

I Troy Moralez HEREBY CERTIFY THAT ~~TANK~~ unit AT Bldg. 170 IS FREE FROM COMBUSTIBLE MATERIAL.

TROY MORALEZ

MIKE LANDGRAF

DATA SHEET
ENVIROGARD PETROLEUM FUELS (BTEX) IN SOIL TEST KIT

Swmu 11

	OD VALUE
Negative Control	0.64
10 ppm BTEX Calibrator	0.45
50 ppm BTEX Calibrator	0.35
300 ppm BTEX Calibrator	0.17

SAMPLE ID	OD VALUE	INTERPRETATION
CA11/1-96-1107-1400	0.53	< 10 PPM BTEX
CA11/2-96-1107-1401	0.52	< 10 PPM BTEX
CA11/3-96-1107-1402	0.50	<10 PPM BTEX
CA11/4-96-1107-1403	0.45	10 PPM BTEX
CA11/5-96-1107-1404	0.42	>10 PPM <50 PPM BTEX
CA11/6-96-1107-1405	0.43	>10 <50 PPM BTEX

DATA SHEET
ENVIROGARD PETROLEUM FUELS (TPH) IN SOIL TEST KIT

Scumall

	OD VALUE
Negative Control	0.60
20 ppm BTEX Calibrator	0.42
100 ppm BTEX Calibrator	0.22
600 ppm BTEX Calibrator	0.13

SAMPLE ID	OD VALUE	INTERPRETATION
CA11/1-96-1107-1400	0.50	<20 PPM TPH
CA11/2-96-1107-1401	0.47	<20 PPM TPH
CA11/3-96-1107-1402	0.54	<20 PPM TPH
CA11/4-96-1107-1403	0.52	<20 PPM TPH
CA11/5-96-1107-1404	0.57	<20 PPM TPH
CA11/6-96-1107-1405	0.61	ND

SAMPLE INFORMATION

Sample ID No.: CA11/4-96-1107-1403

Sample Depth: 8' Sample Matrix: Soil

Sample Location: Bottom side of excavation

Sample Purpose: Field Screening / Lab analysis correlation

Number of Samples Taken: 1 Preservatives Used: ICE

Sample Method: 8015 TPH + BTEX 8020

Headspace Analysis: NT

Contaminated Action Level: >100 PPM TPH + >50 PPM BTEX

SAMPLE INFORMATION

Sample ID No.: CA11/5-96-1107-1404

Sample Depth: 9' Sample Matrix: Soil

Sample Location: Bottom of excavation

Sample Purpose: Field Screening / Lab analysis correlation

Number of Samples Taken: 1 Preservatives Used: ICE

Sample Method: TPH 8015 + BTEX 8020

Headspace Analysis: NT

Contaminated Action Level: >100 PPM TPH + >50 PPM BTEX

SAMPLE INFORMATION

Sample ID No.: CA11/7-96-1107-1406

Sample Depth: 9' Sample Matrix: Soil

Sample Location: Center of excavation

Sample Purpose: Confirmatory Closure

Number of Samples Taken: 4 Preservatives Used: ICE

Sample Method: 8015, 8260, 8270, 6010 + 7470 using 3511 extraction

Headspace Analysis: NT

Contaminated Action Level:

SAMPLE INFORMATION

Sample ID No.: CA11/8-96-1107-1407

Sample Depth: Composite Sample Matrix: Soil

Sample Location: excavated material

Sample Purpose: Disposal

Number of Samples Taken: 2 Preservatives Used: ICE

Sample Method: TCLP 1311, 8015 + 8020

Headspace Analysis: NT

Contaminated Action Level: >100PPM TPH + >50PPM BTEX

SAMPLE INFORMATION

Sample ID No.: CA11/1-96-1107-1400, CA11/2-96-1107-1401, CA11/3-96-1107-1402
CA11/4-96-1107-1403

Sample Depth: 8' Sample Matrix: Soil

Sample Location: Bottom sides of excavation

Sample Purpose: Field Screening

Number of Samples Taken: 4 Preservatives Used: ICE

Sample Method: Immunoassay TPH, BTEX + Headspace

Headspace Analysis:

Contaminated Action Level: >100 PPM TPH + 750 PPM BTEX

SAMPLE INFORMATION

Sample ID No.: CA11/5-96-1107-1404, CA11/6-96-1107-1405

Sample Depth: 9' Sample Matrix: Soil

Sample Location: Bottom of excavation

Sample Purpose: Field Screening

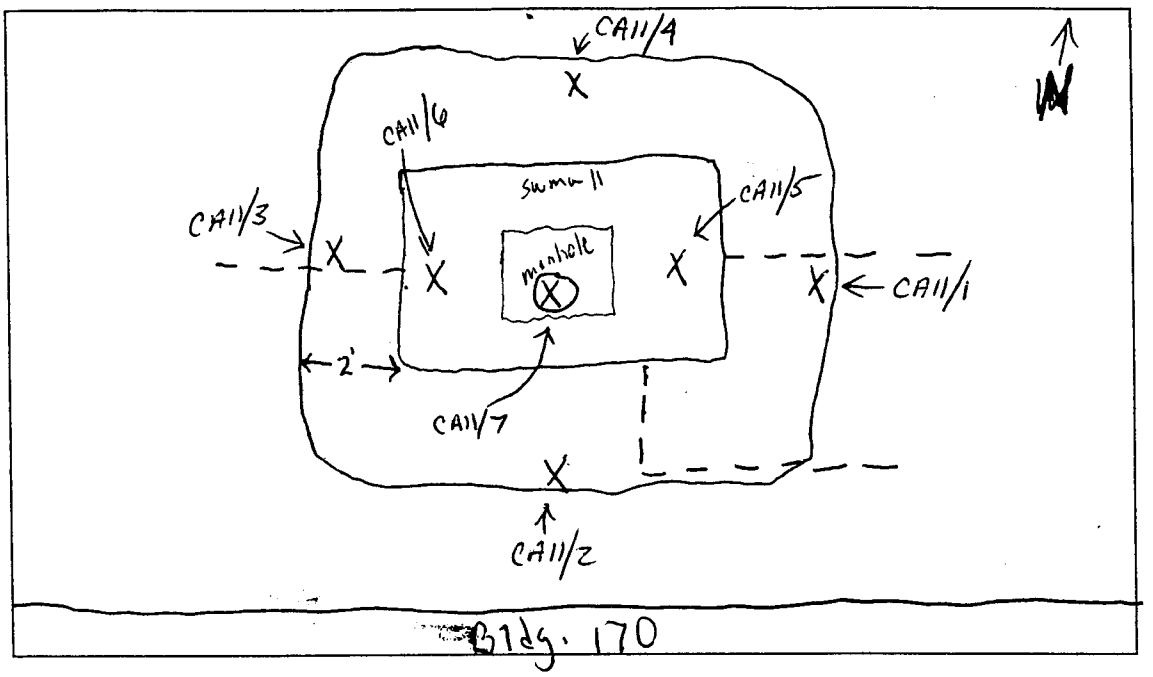
Number of Samples Taken: 2 Preservatives Used: ICE

Sample Method: Immunoassay TPH, BTEX + Headspace

Headspace Analysis:

Contaminated Action Level: >100 PPM TPH + 750 PPM BTEX

SKETCH: SWMU 11



CA11/1 thru CA11/6 : Field Screening

CA11/7 : Confirmatory

CA11/8 : Excavated Material Confirmatory

Notification for Underground Storage Tanks

UST BUREAU/EID
1190 St. Francis Drive
Santa Fe, NM 87503

I.D. Number — STATE USE ONLY

Date Received

GENERAL INFORMATION

Notification is required by Federal law for all underground tanks that have been used to store regulated substances since January 1, 1974, that are in the ground as of May 8, 1986, or that are brought into use after May 8, 1986. The information requested is required by Section 9002 of the Resource Conservation and Recovery Act (RCRA), as amended.

The primary purpose of this notification program is to locate and evaluate underground tanks that store or have stored petroleum or hazardous substances. It is expected that the information you provide will be based on reasonably available records, or, in the absence of such records, your knowledge, belief, or recollection.

Who Must Notify? Section 9002 of RCRA, as amended, requires that, unless exempted, owners of underground tanks that store regulated substances must notify designated State or local agencies of the existence of their tanks. Owner means—

(a) in the case of an underground storage tank in use on November 8, 1984, or brought into use after that date, any person who owns an underground storage tank used for the storage, use, or dispensing of regulated substances, and

(b) in the case of any underground storage tank in use before November 8, 1984, but no longer in use on that date, any person who owned such tank immediately before the discontinuation of its use.

What Tanks Are Included? Underground storage tank is defined as any one or combination of tanks that (1) is used to contain an accumulation of "regulated substances," and (2) whose volume (including connected underground piping) is 10% or more beneath the ground. Some examples are underground tanks storing: 1. gasoline, used oil, or diesel fuel, and 2. industrial solvents, pesticides, herbicides or fumigants.

What Tanks Are Excluded? Tanks removed from the ground are not subject to notification. Other tanks excluded from notification are:
1. farm or residential tanks of 1,100 gallons or less capacity used for storing motor fuel for noncommercial purposes;
2. tanks used for storing heating oil for consumptive use on the premises where stored;
3. septic tanks;
4. pipeline facilities (including gathering lines) regulated under the Natural Gas Pipeline Safety Act of 1968, or the Hazardous Liquid Pipeline Safety Act of 1979, or which is an intrastate pipeline facility regulated under State laws;
5. surface impoundments, pits, ponds, or lagoons;
6. storm water or wastewater collection systems;
7. flow-through process tanks;
8. liquid traps or associated gathering lines directly related to oil or gas production and gathering operations;
9. storage tanks situated in an underground area (such as a basement, cellar, mine working, drift, shaft, or tunnel) if the storage tank is situated upon or above the surface of the floor.

What Substances Are Covered? The notification requirements apply to underground storage tanks that contain regulated substances. This includes any substance defined as hazardous in Section 101 (14) of the Comprehensive Environmental Response, Compensation and Liability Act of 1980 (CERCLA) with the exception of those substances regulated as hazardous waste under Subtitle C of RCRA. It also includes petroleum, e.g., crude oil or any fraction thereof which is liquid at standard conditions of temperature and pressure (60 degrees Fahrenheit and 14.7 pounds per square inch absolute).

Where To Notify? Completed notification forms should be sent to the address given at the top of this page.

When To Notify? 1. Owners of underground storage tanks in use or that have been taken out of operation after January 1, 1974, but still in the ground, must notify by May 8, 1986. 2. Owners who bring underground storage tanks into use after May 8, 1986, must notify within 30 days of bringing the tanks into use.

Penalties: Any owner who knowingly fails to notify or submits false information shall be subject to a civil penalty not to exceed $10,000 for each tank for which notification is not given or for which false information is submitted.

INSTRUCTIONS

Please type or print in ink all items except "signature" in Section V. This form must by completed for each location containing underground storage tanks. If more than 5 tanks are owned at this location, photocopy the reverse side, and staple continuation sheets to this form.

Indicate number of continuation sheets attached [ ]

I. OWNERSHIP OF TANK(S)

Owner Name (Corporation, Individual, Public Agency, or Other Entity): 27th CE/DP

Street Address: 111 Engineers Way

County: Curry

City: Cannon AFB State: NM ZIP Code: 88103

Area Code: 505 Phone Number: 784-6022

Type of Owner (Mark all that apply ☒)

- [ ] Current
- [ ] Former
- [ ] State or Local Govt
- [x] Federal Govt (GSA facility I.D. no. _____)
- [ ] Private or Corporate
- [ ] Ownership uncertain

II. LOCATION OF TANK(S)

(If same as Section I, mark box here [ ])

Facility Name or Company Site Identifier, as applicable: Bldg. 170 Swma 11

Street Address or State Road, as applicable:

County: Curry

City (nearest): Cannon AFB State: NM ZIP Code: 88103

Indicate number of tanks at this location: 1

Mark box here if tank(s) are located on land within an Indian reservation or on other Indian trust lands [ ]

III. CONTACT PERSON AT TANK LOCATION

Name (If same as Section I, mark box here [ ]): [illegible]

Job Title: CGC / Keyenne Bldg Cont INC

Area Code: 505 Phone Number: 769-9216

IV. TYPE OF NOTIFICATION

[ ] Mark box here only if this is an amended or subsequent notification for this location.

V. CERTIFICATION (Read and sign after completing Section VI.)

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete.

Name and official title of owner or owner's authorized representative	Signature	Date Signed

CONTINUE ON REVERSE SIDE

Owner Name (from Section I) _____ Location (from Section II) _____

Page No. ____ of ____ Pages

VI. DESCRIPTION OF UNDERGROUND STORAGE TANKS (Complete for each tank at this location.)

Tank Identification No. (e.g., ABC-123), or Arbitrarily Assigned Sequential Number (e.g., 1,2,3...)	Tank No.	Tank No.	Tank No.	Tank No.	Tank No.
1. Status of Tank (Mark all that apply ☒) — Currently in Use	☐	☐	☐	☐	☐
Temporarily Out of Use	☐	☐	☐	☐	☐
Permanently Out of Use	☒	☐	☐	☐	☐
Brought into Use after 5/8/86	☐	☐	☐	☐	☐
2. Estimated Age (Years)	26				
3. Estimated Total Capacity (Gallons)	400				
4. Material of Construction (Mark one ☒) — Steel	☐	☐	☐	☐	☐
Concrete	☒	☐	☐	☐	☐
Fiberglass Reinforced Plastic	☐	☐	☐	☐	☐
Unknown	☐	☐	☐	☐	☐
Other, Please Specify					
5. Internal Protection (Mark all that apply ☒) — Cathodic Protection	☐	☐	☐	☐	☐
Interior Lining (e.g., epoxy resins)	☐	☐	☐	☐	☐
None	☒	☐	☐	☐	☐
Unknown	☐	☐	☐	☐	☐
Other, Please Specify					
6. External Protection (Mark all that apply ☒) — Cathodic Protection	☐	☐	☐	☐	☐
Painted (e.g., asphaltic)	☐	☐	☐	☐	☐
Fiberglass Reinforced Plastic Coated	☐	☐	☐	☐	☐
None	☒	☐	☐	☐	☐
Unknown	☐	☐	☐	☐	☐
Other, Please Specify					
7. Piping (Mark all that apply ☒) — Bare Steel	☐	☐	☐	☐	☐
Galvanized Steel	☐	☐	☐	☐	☐
Fiberglass Reinforced Plastic	☐	☐	☐	☐	☐
Cathodically Protected	☐	☐	☐	☐	☐
Unknown	☐	☐	☐	☐	☐
Other, Please Specify	Clay				
8. Substance Currently or Last Stored in Greatest Quantity by Volume (Mark all that apply ☒) — a. Empty	☐	☐	☐	☐	☐
b. Petroleum					
Diesel	☐	☐	☐	☐	☐
Kerosene	☐	☐	☐	☐	☐
Gasoline (including alcohol blends)	☐	☐	☐	☐	☐
Used Oil	☐	☐	☐	☐	☐
Other, Please Specify	water/sludge				
c. Hazardous Substance	☐	☐	☐	☐	☐
Please Indicate Name of Principal CERCLA Substance OR Chemical Abstract Service (CAS) No.					
Mark box ☒ if tank stores a mixture of substances	☒	☐	☐	☐	☐
d. Unknown	☐	☐	☐	☐	☐
9. Additional Information (for tanks permanently taken out of service) — a. Estimated date last used (mo/yr)	189	/	/	/	/
Estimated quantity of substance remaining (gal.)	0				
Mark box ☒ if tank was filled with inert material (e.g., sand, concrete)	☐	☐	☐	☐	☐

ANK CLOSURE WORKSHEET
(COMPLETE AFTER CLOSURE)

Tank Owner 27th CE/VP Phone 784-6022
Mailing Address 111 Engineers Way Cannon AFB NM 88103
Tank Address Bldg. 170 Swansea 11
Contractor Name Cheyenne Bldg. Cont. INC Phone 763-1410
Address 1712 S Prince ST CLOVIS NM 88101
Contractor Name _____ Phone _____
Address _____

Tank Closure Date 11-4-96 # of Tanks Closed 1

****

I. Tank Closure Initial Procedures (check measures complied with):
- ✓ Obtain recommended safety equipment for all personnel
- ✓ Contact Fire Marshall or other fire officials
- ✓ Bond or ground equipment
- ✓ Drain product from piping and tank
- ✓ Disconnect, then cap or remove piping
- ✓ Remove all residual product from tank
- ✓ Excavate to tank top
- ✓ Remove all tank fixtures
- ✓ Properly purge or inert tank of all flammable vapors using approved method
- ✓ Continually monitor for explosive vapors while tank is being removed

II. Tank Removal
- ✓ Create vent hole
- ✓ Excavate tank using all safety precautions
- ✓ Clean and inspect tank
- ✓ Check excavation for evidence of leaks and notify EID and other proper authorities if leak is found
- ✓ Check vapor levels in tank before transporting
- ✓ Dispose of tank in approved manner

Tank disposal location Landfill CLOVIS NM 88101
City State

How did you assess site for leakage? Field Screening / Lab analysis
Closure report kept at 111 Engineers Way CANNON AFB NM 88103
NOTE: Immediately report any evidence of leakage to EID at 827-0188

I hereby state that the above information is correct

[signature] CAP Cheyenne Bldg. Cont. INC.
Signature of ~~owner~~ or contractor performing work

****

FOR EID USE ONLY
Notification Received _____ Approved By _____
Inspection Date _____ Inspector _____

CHEYENNE BUILDING CONTRACTORS, INC.
QUALITY CONTROL FIELD NOTES
UNIT REMOVAL AT CANNON AFB, NM
CONTRACT NO.: DACA47-95-D-0035

DATE: 11-5-96
TIME: 9:00
WEATHER: mild
TEMP.: 63°

UNIT INFORMATION

Unit Owner: U.S. Army Corp of Engineers Phone No.: 505-784-4351

Address: P.O. Box 1580 Albuquerque, NM 87103

Bldg. No.: 129 SWMU No.: 7

Date Installed: 1943 Date Last Used: 11-7-96

Units Association with Facility: Solid Waste Management Unit for Bldg. 129.

Unit Width: 7' Unit Length: 5' Unit Depth: 5'

Unit Contents: water /sludge Gallons Removed: 629

Type of Ground Cover: Asphalt

Petroleum Odors: YES ☐ NO ☒

Visual Characterization of Soil: Clean

Evidence of a Spill: YES ☐ NO ☒

Other Potential Sources of Contamination: leaking Pipe

ANK CLOSURE WORKSHEET
(COMPLETE AFTER CLOSURE)

Tank Owner 27th CE/UP Phone 784-6022
Mailing Address 111 Engineers Way Cannon AFB NM 88103
Tank Address Bldg. 129 Swma 7
Contractor Name Cheyenne Bldg. Cont. INC Phone 769-9216
Address 1712 Spruce st Clovis NM 88101
Contractor Name _____ Phone _____
Address _____

Tank Closure Date 11-7-96 # of Tanks Closed 1

****

I. Tank Closure Initial Procedures (check measures complied with):
- ✓ Obtain recommended safety equipment for all personnel
- ✓ Contact Fire Marshall or other fire officials
- ✓ Bond or ground equipment
- ✓ Drain product from piping and tank
- ✓ Disconnect, then cap or remove piping
- ✓ Remove all residual product from tank
- ✓ Excavate to tank top
- ✓ Remove all tank fixtures
- ✓ Properly purge or inert tank of all flammable vapors using approved method
- ✓ Continually monitor for explosive vapors while tank is being removed

II. Tank Removal
- ✓ Create vent hole
- ✓ Excavate tank using all safety precautions
- ✓ Clean and inspect tank
- ✓ Check excavation for evidence of leaks and notify EID and other proper authorities if leak is found
- ✓ Check vapor levels in tank before transporting
- ✓ Dispose of tank in approved manner

Tank disposal location Landfill Clovis NM 88101
City State

How did you assess site for leakage? Field Screening / Lab analysis
Closure report kept at 111 Engineers Way Cannon AFB 88103
NOTE: Immediately report any evidence of leakage to EID at 827-0188

I hereby state that the above information is correct

[signature] Col Cheyenne Bldg. Cont. INC.
Signature of owner or contractor performing work

****

FOR EID USE ONLY
Notification Received _____ Approved By _____
Inspection Date _____ Inspector _____

EXCAVATION CHECK LIST

Company Cheyenne	Date 11/7/96
Site Location/Description Sumu 7 Bldg. 129	Time 11:00 ☒ AM ☐ PM
Inspected by Troy Morales	Project Number DACA47-95-D-0035

INSTRUCTIONS: Read the ITEM NUMBER and DESCRIPTION to determine the current conditions of this excavation site. Mark an (X) in the YES column if the description is present and has been satisfied. Mark an (X) in the NO column if the item has not been completed. Mark a line (–) across the YES and NO columns if the ITEM does not apply. Use the NOTES section to list the ITEM NUMBER. Write any comments that apply to the ITEM NUMBER.

Item	DESCRIPTION	YES	NO	Item No.	DESCRIPTION	YES	NO
1	The utility company has been notified of excavation work schedule.	✓		19	Employees working below other employees in trench are protected from hazards.	✓	
2	Location of underground utility lines are identified.	✓		20	The trench is free of standing water.	✓	
3	Hazardous objects have been removed from excavation area or blocked securely.	✓		21	The proper water removal equipment is operating under guidance of competent person.	✓	
4	Soil type is classified.	✓		22	Diversion ditches or dikes are in place to prevent surface water from entering trench.	✓	
5	Sloping and Benching system is designed per OSHA requirements.		✓	23	The trench is inspected by competent person following any amount of rain.	✓	
6	Timber shoring system is designed per OSHA requirements.	✓		24	Employees are wearing proper safety equipment.	✓	
7	Aluminum Hydraulic shoring system is designed per OSHA requirements.	✓		25	Test air quality in trench if a hazardous atmosphere is suspected.	✓	
8	Shielding system is designed per OSHA requirements.	✓		26	A ventilation or respiratory protection is in use.	✓	
9	Shields are free from damage or defects.	✓		27	Protective support systems are installed from the top down.	✓	
10	Employees are protected from cave-ins when entering and exiting the shield.	✓		28	Protective support systems are dismantled from the bottom up.	✓	
11	When a combination of sloping and shielding is used, the shield must extend 18 inches above the bottom slope of the excavation.	✓		29	Excavation is backfilled as the protective system is dismantled.	✓	
12	A ladder is provided and secured in trench four or more feet deep; top of ladder extending at least 36 inches above edge of trench.	✓		30	Heavy equipment is mounted on wooden mats to distribute weight.	✓	
13	A ladder is within 25 feet of all employees working in trench	✓		31	Damaged materials or equipment are removed from service.	✓	
14	Excavated material is stored at least two feet from the edge of the excavation.	✓		32	An emergency response program is in place.	✓	
15	Employees are protected from loose material which could fall into trench.	✓		33	Life support equipment is in working order.	✓	
16	A competent person inspects the trench prior to the start of the shift.	✓		34	Note other conditions. CGI - < 2% LEL Oxygen - 21%		
17	The location of trench is marked by banners, barricades or other signals.	✓		35	PID = 0.3 PPM VOC		
18	Bridges or walkways over excavations are equipped with guardrails and toeboards.	✓		36			

Notes:

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GB98
LIC. NO. 30759

CERTIFICATE OF VAPOR TESTING

DATE 11/7/96

TANK OWNER 27th CE/UP PHONE 784-6022

ADDRESS 111 Engineers Way Cannon AFB, NM 88103

CONTRACTOR REMOVING TANK Cheyenne

ADDRESS P.O. Box 418 CLOVIS NM 88101 PHONE 769-9216

CHEYENNE BUILDERS IS CERTIFIED CONTRACTOR IN VAPOR TESTING.

I Troy Moralez HEREBY CERTIFY THAT ~~TANK~~ unit 7 AT Bldg. 129 IS FREE FROM COMBUSTIBLE MATERIAL.

TROY MORALEZ

MIKE LANDGRAF

DATA SHEET
ENVIROGARD PETROLEUM FUELS (TPH) IN SOIL TEST KIT

SWMU 7

	OD VALUE
Negative Control	0.60
20 ppm BTEX Calibrator	0.42
100 ppm BTEX Calibrator	0.22
600 ppm BTEX Calibrator	0.13

SAMPLE ID	OD VALUE	INTERPRETATION
CA7/1-96-1107-1500	0.48	< 20 PPM TPH
CA7/2-96-1107-1501	0.53	< 20 PPM TPH
CA7/3-96-1107-1502	0.47	< 20 PPM TPH
CA7/4-96-1107-1503	0.45	< 20 PPM TPH
CA7/5-96-1107-1504	0.47	< 20 PPM TPH
CA7/6-96-1107-1505	0.44	< 20 PPM TPH

DATA SHEET
ENVIROGARD PETROLEUM FUELS (BTEX) IN SOIL TEST KIT

SWMU 7

	OD VALUE
Negative Control	0.64
10 ppm BTEX Calibrator	0.45
50 ppm BTEX Calibrator	0.35
300 ppm BTEX Calibrator	0.17

SAMPLE ID	OD VALUE	INTERPRETATION
CA7/1-96-1107-1500	0.45	10 PPM BTEX
CA7/2-96-1107-1501	0.50	<10 PPM BTEX
CA7/3-96-1107-1502	0.46	<10 PPM BTEX
CA7/4-96-1107-1503	0.40	>10 <50 PPM BTEX
CA7/5-96-1107-1504	0.42	>10 <50 PPM BTEX
CA7/6-96-1107-1505	0.37	>10 <50 PPM BTEX

SAMPLE INFORMATION

Sample ID No.: CA7/4-96-1107-1503

Sample Depth: 8' Sample Matrix: Soil

Sample Location: bottom side of excavation

Sample Purpose: Field Screening / Lab analysis correlation

Number of Samples Taken: 1 Preservatives Used: ICE

Sample Method: TPH 8015 & Btex 8020

Headspace Analysis: NT

Contaminated Action Level: >100 ppm TPH & >50 ppm BTEX

SAMPLE INFORMATION

Sample ID No.: CA7/6-96-1107-1505

Sample Depth: 8' Sample Matrix: Soil

Sample Location: Bottom of excavation

Sample Purpose: Field Screening / Lab analysis correlation

Number of Samples Taken: 1 Preservatives Used: ICE

Sample Method: TPH 8015 & BTEX 8020

Headspace Analysis: NT

Contaminated Action Level: >100 ppm TPH & >50 ppm BTEX

SAMPLE INFORMATION

Sample ID No.: CA7/7-96-1107-1506

Sample Depth: 8' Sample Matrix: Soil

Sample Location: center of excavation

Sample Purpose: Confirmatory Closure

Number of Samples Taken: 4 Preservatives Used: ICE

Sample Method: TPH 8015, 8260, 8270, 6010 & 7470 using 3511 extraction

Headspace Analysis: NT

Contaminated Action Level:

SAMPLE INFORMATION

Sample ID No.: CA7/8-96-1107-1507

Sample Depth: Composite Sample Matrix: Soil

Sample Location: excavated material

Sample Purpose: Disposal

Number of Samples Taken: 2 Preservatives Used: ICE

Sample Method: TCLP 1311 & TPH, BTEX

Headspace Analysis: NT

Contaminated Action Level: >100 PPM TPH & >50 PPM BTEX

SAMPLE INFORMATION

Sample ID No.: CA7/1-96-1107-1500, CA7/2-96-1107-1501, CA7/3-96-1107-1502
CA7/4-96-1107-1503

Sample Depth: 8' Sample Matrix: Soil

Sample Location: Bottom sides of excavation

Sample Purpose: Field Screening

Number of Samples Taken: 4 Preservatives Used: ICE

Sample Method: Immnoassay TPH+BTEX, Head Space

Headspace Analysis: CA7/1 = 0.0PPM, CA7/2 = 0.0ppm, CA7/3 = 0.0ppm
CA7/4 = 0.1 PPM

Contaminated Action Level: >100 PPM TPH + >50 PPM BTEX

SAMPLE INFORMATION

Sample ID No.: CA7/5-96-1107-1504, CA7/6-96-1107-1505

Sample Depth: 8' Sample Matrix: Soil

Sample Location: Bottom of excavation

Sample Purpose: Field Screening

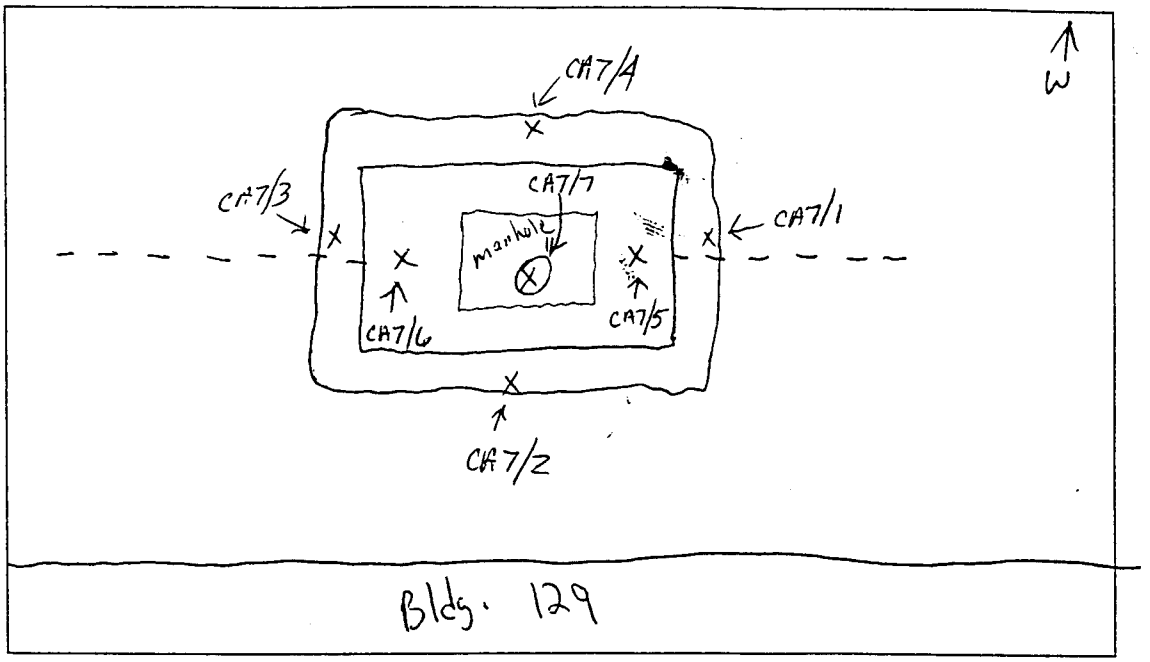
Number of Samples Taken: 2 Preservatives Used: ICE

Sample Method: Immnoassay TPH, BTEX + Head Space

Headspace Analysis: CA7/5 = 0.0 PPM, CA7/6 = 0.3 PPM

Contaminated Action Level: >100 PPM TPH, >50 PPM BTEX

SKETCH: SWMU 7



CA7/1 thru CA7/6 : Field Screening

CA/7 : Confirmatory

CA/8 : Excavated Material Confirmatory

Notification for Underground Storage Tanks

UST BUREAU/EID
1190 St. Francis Drive
Santa Fe, NM 87503

I.D. Number STATE USE ONLY

Date Received

GENERAL INFORMATION

Notification is required by Federal law for all underground tanks that have been used to store regulated substances since January 1, 1974, that are in the ground as of May 8, 1986, or that are brought into use after May 8, 1986. The information requested is required by Section 9002 of the Resource Conservation and Recovery Act (RCRA), as amended.

The primary purpose of this notification program is to locate and evaluate underground tanks that store or have stored petroleum or hazardous substances. It is expected that the information you provide will be based on reasonably available records or, in the absence of such records, your knowledge, belief, or recollection.

Who Must Notify? Section 9002 of RCRA, as amended, requires that, unless exempted, owners of underground tanks that store regulated substances must notify designated State or local agencies of the existence of their tanks. Owner means—

(a) in the case of an underground storage tank in use on November 8, 1984, or brought into use after that date, any person who owns an underground storage tank used for the storage, use, or dispensing of regulated substances; and

(b) in the case of any underground storage tank in use before November 8, 1984, but no longer in use on that date, any person who owned such tank immediately before the discontinuation of its use.

What Tanks Are Included? Underground storage tank is defined as any one or combination of tanks that (1) is used to contain an accumulation of "regulated substances," and (2) whose volume (including connected underground pipings) is 10% or more beneath the ground. Some examples are underground tanks storing: 1. gasoline, used oil, or diesel fuel, and 2. industrial solvents, pesticides, herbicides or fumigants.

What Tanks Are Excluded? Tanks removed from the ground are not subject to notification. Other tanks excluded from notification are:

1. farm or residential tanks of 1,100 gallons or less capacity used for storing motor fuel for noncommercial purposes;
2. tanks used for storing heating oil for consumptive use on the premises where stored;
3. septic tanks;
4. pipeline facilities (including gathering lines) regulated under the Natural Gas Pipeline Safety Act of 1968, or the Hazardous Liquid Pipeline Safety Act of 1979, or which is an intrastate pipeline facility regulated under State laws;
5. surface impoundments, pits, ponds, or lagoons;
6. storm water or wastewater collection systems;
7. flow-through process tanks;
8. liquid traps or associated gathering lines directly related to oil or gas production and gathering operations;
9. storage tanks situated in an underground area (such as a basement, cellar, mineworking, drift, shaft, or tunnel) if the storage tank is situated upon or above the surface of the floor.

What Substances Are Covered? The notification requirements apply to underground storage tanks that contain regulated substances. This includes any substance defined as hazardous in section 101 (14) of the Comprehensive Environmental Response, Compensation and Liability Act of 1980 (CERCLA) with the exception of those substances regulated as hazardous waste under Subtitle C of RCRA. It also includes petroleum, e.g., crude oil or any fraction thereof which is liquid at standard conditions of temperature and pressure (60 degrees Fahrenheit and 14.7 pounds per square inch absolute).

Where To Notify? Completed notification forms should be sent to the address given at the top of this page.

When To Notify? 1. Owners of underground storage tanks in use or that have been taken out of operation after January 1, 1974, but still in the ground, must notify by May 8, 1986. 2. Owners who bring underground storage tanks into use after May 8, 1986, must notify within 30 days of bringing the tanks into use.

Penalties: Any owner who knowingly fails to notify or submits false information shall be subject to a civil penalty not to exceed $10,000 for each tank for which notification is not given or for which false information is submitted.

INSTRUCTIONS

Please type or print in ink all items except "signature" in Section V. This form must by completed for each location containing underground storage tanks. If more than 5 tanks are owned at this location, photocopy the reverse side, and staple continuation sheets to this form.

Indicate number of continuation sheets attached [ ]

I. OWNERSHIP OF TANK(S)

Owner Name (Corporation, Individual, Public Agency, or Other Entity): 27th CE/RP

Street Address: 111 Engineers Way

County: Curry

City: Cannon AFB State: NM ZIP Code: 88103

Area Code: 505 Phone Number: 784-6022

Type of Owner (Mark all that apply ☑):

- [ ] Current
- [ ] Former
- [ ] State or Local Gov't
- [x] Federal Gov't (GSA facility I.D. no.)
- [ ] Private or Corporate
- [ ] Ownership uncertain

II. LOCATION OF TANK(S)

(If same as Section 1, mark box here [ ])

Facility Name or Company Site Identifier, as applicable: Bldg. 129 SWMU 7

Street Address or State Road, as applicable:

County: Curry

City (nearest): Cannon AFB State: NM ZIP Code: 88103

Indicate number of tanks at this location: 1

Mark box here if tank(s) are located on land within an Indian reservation or on other Indian trust lands [ ]

III. CONTACT PERSON AT TANK LOCATION

Name (If same as Section I, mark box here [ ]): [illegible] Job Title: CE C-Chevenne Bldg. Cont. Tk. Area Code: 505 Phone Number: 769-9216

IV. TYPE OF NOTIFICATION

[ ] Mark box here only if this is an amended or subsequent notification for this location.

V. CERTIFICATION (Read and sign after completing Section VI.)

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete.

Name and official title of owner or owner's authorized representative | Signature | Date Signed

CONTINUE ON REVERSE SIDE

Owner Name (from Section I) _____ Location (from Section II) _____

[redacted] Page No. ____ of ____ Pages

Tank Identification No. (e.g., ABC-123), or Arbitrarily Assigned Sequential Number (e.g., 1, 2, 3 ...)	Tank No.	Tank No.	Tank No.	Tank No.	Tank No.
Status of Tank (Mark all that apply ☒)					
Currently in Use	☐	☐	☐	☐	☐
Temporarily Out of Use	☐	☐	☐	☐	☐
Permanently Out of Use	☒	☐	☐	☐	☐
Brought into Use after 5/8/85	☐	☐	☐	☐	☐
2. Estimated Age (Years)					
3. Estimated Total Capacity (Gallons)	53900				
4. Material of Construction (Mark one ☒)					
Steel	☐	☐	☐	☐	☐
Concrete	☒	☐	☐	☐	☐
Fiberglass Reinforced Plastic	☐	☐	☐	☐	☐
Unknown	☐	☐	☐	☐	☐
Other, Please Specify					
5. Internal Protection (Mark all that apply ☒)					
Cathodic Protection	☐	☐	☐	☐	☐
Interior Lining (e.g., epoxy resins)	☐	☐	☐	☐	☐
None	☒	☐	☐	☐	☐
Unknown	☐	☐	☐	☐	☐
Other, Please Specify					
6. External Protection (Mark all that apply ☒)					
Cathodic Protection	☐	☐	☐	☐	☐
Painted (e.g., asphaltic)	☐	☐	☐	☐	☐
Fiberglass Reinforced Plastic Coated	☐	☐	☐	☐	☐
None	☒	☐	☐	☐	☐
Unknown	☐	☐	☐	☐	☐
Other, Please Specify					
7. Piping (Mark all that apply ☒)					
Bare Steel	☐	☐	☐	☐	☐
Galvanized Steel	☐	☐	☐	☐	☐
Fiberglass Reinforced Plastic	☐	☐	☐	☐	☐
Cathodically Protected	☐	☐	☐	☐	☐
Unknown	☐	☐	☐	☐	☐
Other, Please Specify	Cast				
8. Substance Currently or Last Stored in Greatest Quantity by Volume (Mark all that apply ☒)					
a. Empty	☐	☐	☐	☐	☐
b. Petroleum				☐	☐
Diesel	☐	☐	☐		
Kerosene	☐	☐	☐	☐	☐
Gasoline (including alcohol blends)	☐	☐	☐	☐	☐
Used Oil	☐	☐	☐	☐	☐
Other, Please Specify	water/sludge				
c. Hazardous Substance	☐	☐	☐	☐	☐
Please Indicate Name of Principal CERCLA Substance OR Chemical Abstract Service (CAS) No.					
Mark box ☒ if tank stores a mixture of substances	☒	☐	☐	☐	☐
d. Unknown	☐	☐	☐	☐	☐
9. Additional Information (for tanks permanently taken out of service)					
a. Estimated date last used (mo/yr)	11/96	/	/	/	/
b. Estimated quantity of substance remaining (gal.)	0				
c. Mark box ☒ if tank was filled with inert material (e.g., sand, concrete)	☐	☐	☐	☐	☐

CHEYENNE BUILDING CONTRACTORS, INC.
QUALITY CONTROL FIELD NOTES
UNIT REMOVAL AT CANNON AFB, NM
CONTRACT NO.: DACA47-95-D-0035

DATE: 11-6-96
TIME: 9:00 AM
WEATHER: mild
TEMP.: 61°

UNIT INFORMATION

Unit Owner: U.S. Army Corp of Engineers Phone No.: 505-784-4351

Address: P.O. Box 1580 Albuquerque, NM 87103

Bldg. No.: 119 SWMU No.: 7

Date Installed: 1963 Date Last Used: 1996

Units Association with Facility: Solid Waste Management unit for bldg. 119

Unit Width: 76" Unit Length: 192" Unit Depth: 111"

Unit Contents: Sludge / water Gallons Removed: 1,709.81

Type of Ground Cover: Asphalt

Petroleum Odors: YES ☐ NO ☒

Visual Characterization of Soil: Clean

Evidence of a Spill: YES ☐ NO ☒

Other Potential Sources of Contamination: leaking Pipes

ANK CLOSURE WORKSHEE.
(COMPLETE AFTER CLOSURE)

Tank Owner 27th CE/UP Phone 784-6022
Mailing Address 111 Engineers Way Cannon AFB NM 88103
Tank Address Bldg. 119 SWMU I
Contractor Name Cheyenne Phone 769-9216
Address P.O. Box 418 CLOVIS NM 88101
Contractor Name _____ Phone _____
Address _____

Tank Closure Date 11-6-96 # of Tanks Closed 1

****

I. Tank Closure Initial Procedures (check measures complied with):
- ✓ Obtain recommended safety equipment for all personnel
- ✓ Contact Fire Marshall or other fire officials
- ✓ Bond or ground equipment
- ✓ Drain product from piping and tank
- ✓ Disconnect, then cap or remove piping
- ✓ Remove all residual product from tank
- ✓ Excavate to tank top
- ✓ Remove all tank fixtures
- ✓ Properly purge or inert tank of all flammable vapors using approved method
- ✓ Continually monitor for explosive vapors while tank is being removed

II. Tank Removal
- ✓ Create vent hole
- ✓ Excavate tank using all safety precautions
- ✓ Clean and inspect tank
- ✓ Check excavation for evidence of leaks and notify EID and other proper authorities if leak is found
- ✓ Check vapor levels in tank before transporting
- ✓ Dispose of tank in approved manner

Tank disposal location Landfill CLOVIS NM 88101
City State

How did you assess site for leakage? Field Screening / Lab analysis
Closure report kept at 111 Engineers Way Cannon AFB NM 88103
NOTE: Immediately report any evidence of leakage to EID at 827-0188

I hereby state that the above information is correct

[signature] CEC Cheyenne Bldg. Cont. INC.
Signature of owner or contractor performing work

****

FOR EID USE ONLY
Notification Received _____ Approved By _____
Inspection Date _____ Inspector _____

EXCAVATION CHECK LIST

Company: Cheyenne	Date: 11/7/96
Site Location/Description: Bldg. 119 Swmu I	Time: 11:00 ☒ AM ☐ PM
Inspected by: Troy Morales	Project Number: DAGF47-95-D-0035

INSTRUCTIONS: Read the ITEM NUMBER and DESCRIPTION to determine the current conditions of this excavation site. Mark an (X) in the YES column if the description is present and has been satisfied. Mark an (X) in the NO column if the item has not been completed. Mark a line (–) across the YES and No columns if the ITEM does not apply. Use the NOTES section to list the ITEM NUMBER. Write any comments that apply to the ITEM NUMBER.

Item	DESCRIPTION	YES	NO	Item No.	DESCRIPTION	YES	NO
1	The utility company has been notified of excavation work schedule.	✓		19	Employees working below other employees in trench are protected from hazards.	✓	
2	Location of underground utility lines are identified.	✓		20	The trench is free of standing water.	✓	
3	Hazardous objects have been removed from excavation area or blocked securely.	✓		21	The proper water removal equipment is operating under guidance of competent person.	✓	
4	Soil type is classified.	✓		22	Diversion ditches or dikes are in place to prevent surface water from entering trench.	✓	
5	Sloping and Benching system is designed per OSHA requirements.	✓		23	The trench is inspected by competent person following any amount of rain.	✓	
6	Timber shoring system is designed per OSHA requirements.	✓		24	Employees are wearing proper safety equipment.	✓	
7	Aluminum Hydraulic shoring system is designed per OSHA requirements.	✓		25	Test air quality in trench if a hazardous atmosphere is suspected.	✓	
8	Shielding system is designed per OSHA requirements.	✓		26	A ventilation or respiratory protection is in use.	✓	
9	Shields are free from damage or defects.	✓		27	Protective support systems are installed from the top down.	✓	
10	Employees are protected from cave-ins when entering and exiting the shield.	✓		28	Protective support systems are dismantled from the bottom up.	✓	
11	When a combination of sloping and shielding is used, the shield must extend 18 inches above the bottom slope of the excavation.	✓		29	Excavation is backfilled as the protective system is dismantled.	✓	
12	A ladder is provided and secured in trench four or more feet deep; top of ladder extending at least 36 inches above edge of trench.	✓		30	Heavy equipment is mounted on wooden mats to distribute weight.	✓	
13	A ladder is within 25 feet of all employees working in trench	✓		31	Damaged materials or equipment are removed from service.	✓	
14	Excavated material is stored at least two feet from the edge of the excavation.	✓		32	An emergency response program is in place.	✓	
15	Employees are protected from loose material which could fall into trench.	✓		33	Life support equipment is in working order.	✓	
16	A competent person inspects the trench prior to the start of the shift.	✓		34	Note other conditions. PID: 0.0 PPM		
17	The location of trench is marked by banners, barricades or other signals.	✓		35	CGI: < 20% LEL Oxygen: 21%		
18	Bridges or walkways over excavations are equipped with guardrails and toeboards.	✓		36			

Notes:

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GB98
LIC. NO. 30759

CERTIFICATE OF VAPOR TESTING

DATE 11-6-96

TANK OWNER 27th CE/UP PHONE 784-6022

ADDRESS 111 Engineers Way Cannon AFB NM 88103

CONTRACTOR REMOVING TANK Cheyenne

ADDRESS PO. BOX 418 CLVIS NM 88103 PHONE 769-9216

CHEYENNE BUILDERS IS CERTIFIED CONTRACTOR IN VAPOR TESTING.

I Troy Moralez HEREBY CERTIFY THAT ~~TANK~~ Sump I AT Bldg. 119 IS FREE FROM COMBUSTIBLE MATERIAL.

TROY MORALEZ

MIKE LANDGRAF

DATA SHEET
ENVIROGARD PETROLEUM FUELS (BTEX) IN SOIL TEST KIT

	OD VALUE
Negative Control	1.04
10 ppm BTEX Calibrator	0.84
50 ppm BTEX Calibrator	0.60
300 ppm BTEX Calibrator	0.37

SAMPLE ID	OD VALUE	INTERPRETATION
CA1/1-96-1114-0930	0.84	10 PPM BTEX
CA1/2-96-1114-0931	0.89	<10 PPM BTEX
CA1/3-96-1114-0932	0.99	<10 PPM BTEX
CA1/4-96-1114-0933	0.97	<10 PPM BTEX
CA1/5-96-1114-0934	1.01	<10 PPM BTEX
CA1/6-96-1114-0935	0.96	<10 PPM BTEX

DATA SHEET
ENVIROGARD PETROLEUM FUELS (TPH) IN SOIL TEST KIT

	OD VALUE
Negative Control	1.27
20 ppm BTEX Calibrator	1.10
100 ppm BTEX Calibrator	0.59
600 ppm BTEX Calibrator	0.25

SAMPLE ID	OD VALUE	INTERPRETATION
CA1/1-96-1114-0930	0.97	>20 <100 PPM TPH
CA1/2-96-1114-0931	1.18	<20 PPM TPH
CA1/3-96-1114-0932	1.16	<20 PPM TPH
CA1/4-96-1114-0933	1.24	<20 PPM TPH
CA1/5-96-1114-0934	1.22	<20 PPM TPH
CA1/6-96-1114-0935	1.23	<20 PPM TPH

SAMPLE INFORMATION

Sample ID No.: CA1/7-96-1114-0936

Sample Depth: 11' Sample Matrix: Soil

Sample Location: 2' below OWS 4' bgs

Sample Purpose: Confirmatory Closure

Number of Samples Taken: 4 Preservatives Used: ICE

Sample Method: 8015, 8260, 8270, 6010 + 7470 using 1311 Extraction

Headspace Analysis: NT

Contaminated Action Level:

SAMPLE INFORMATION

Sample ID No.: CA1/1-96-1114-0930 + CA1/2-96-1114-0931

Sample Depth: CA1/1 5' CA1/2 11' Sample Matrix: Soil

Sample Location: CA1/1 2' below discharge pipe + CA1/2 2' below slab

Sample Purpose: Field Screening / Lab analysis Correlation

Number of Samples Taken: 2 Preservatives Used: ICE

Sample Method: TPH 8015 MOD + BTEX 8020

Headspace Analysis: CA1/1 = 0.02 PPM + CA1/2 = 0.0 PPM VOC's

Contaminated Action Level: > 100 PPM TPH + 750 PPM BTEX

SAMPLE INFORMATION

Sample ID No.: CA1/1-96-1114-0930 , CA1/3-96-1114-0932

Sample Depth: 2' below piping Sample Matrix: Soil

Sample Location: CA1/1 Discharge pipe, CA1/3 inlet pipe

Sample Purpose: field Screening

Number of Samples Taken: 2 Preservatives Used: ICE

Sample Method: Immunoassay TPH+BTEX, Headspace

Headspace Analysis: CA1/1 0.02 PPM, CA1/3 0.0 PPM VOC's

Contaminated Action Level: >100 PPM TPH + >50 PPM BTEX

SAMPLE INFORMATION

Sample ID No.: CA1/2-96-1114-0931, CA1/4-96-1114-0933, CA1/5-96-1114-0934, CA1/6-96-1114-0935

Sample Depth: 11' Sample Matrix: Soil

Sample Location: Below OWS (2')

Sample Purpose: Field Screening

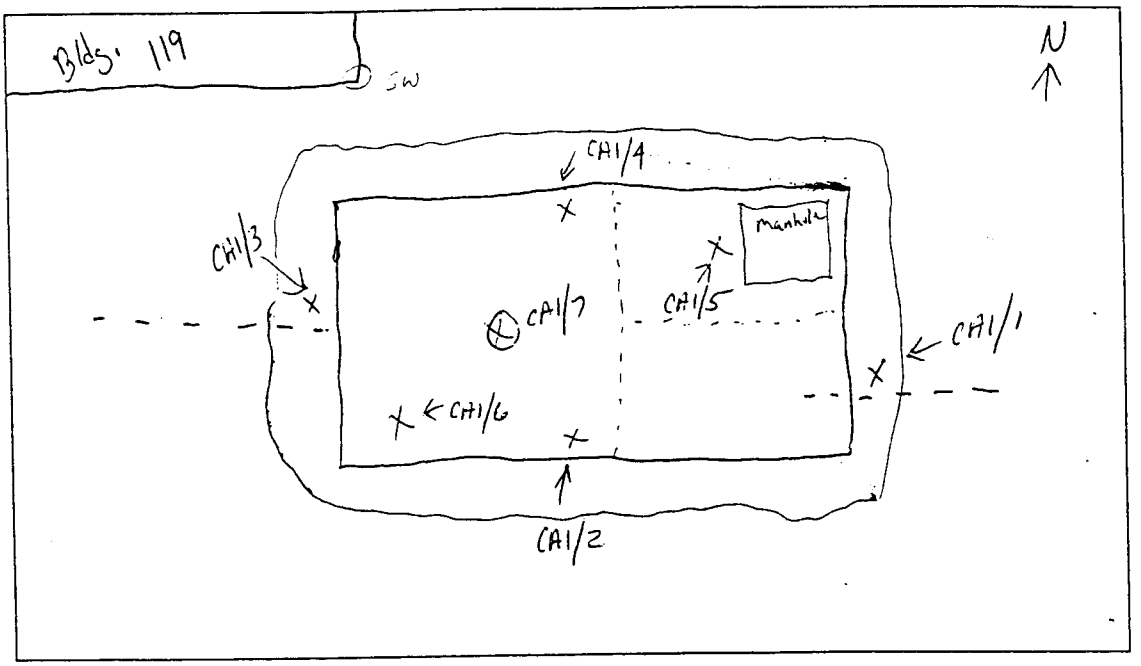
Number of Samples Taken: 4 Preservatives Used: ICE

Sample Method: Immunoassay TPH + BTEX, Headspace

Headspace Analysis: CA1/2=0.0 PPM, CA1/4=0.0 PPM, CA1/5=0.0 PPM, CA1/6=0.0 PPM VOC

Contaminated Action Level: >100 PPM TPH + >50 PPM BTEX

SKETCH:



CA1/1 thru CA1/6 : Field Screening

CA1/7 : Confirmatory

CA1/1 + CA1/2 : Correlation samples

Notification for Underground Storage Tanks

UST BUREAU/EID
1190 St. Francis Drive
Santa Fe, NM 87503

I.D. Number STATE USE ONLY

Date Received

GENERAL INFORMATION

Notification is required by Federal law for all underground tanks that have been used to store regulated substances since January 1, 1974, that are in the ground as of May 8, 1986, or that are brought into use after May 8, 1986. The information requested is required by Section 9002 of the Resource Conservation and Recovery Act (RCRA), as amended.

The primary purpose of this notification program is to locate and evaluate underground tanks that store or have stored petroleum or hazardous substances. It is expected that the information you provide will be based on reasonably available records, or, in the absence of such records, your knowledge, belief, or recollection.

Who Must Notify? Section 9002 of RCRA, as amended, requires that, unless exempted, owners of underground tanks that store regulated substances must notify designated State or local agencies of the existence of their tanks. Owner means—

(a) in the case of an underground storage tank in use on November 8, 1984, or brought into use after that date, any person who owns an underground storage tank used for the storage, use, or dispensing of regulated substances; and

(b) in the case of any underground storage tank in use before November 8, 1984, but no longer in use on that date, any person who owned such tank immediately before the discontinuation of its use.

What Tanks Are Included? Underground storage tank is defined as any one or combination of tanks that (1) is used to contain an accumulation of "regulated substances," and (2) whose volume (including connected underground pipings) is 10% or more beneath the ground. Some examples are underground tanks storing: 1. gasoline, used oil, or diesel fuel, and 2. industrial solvents, pesticides, herbicides or fumigants.

What Tanks Are Excluded? Tanks removed from the ground are not subject to notification. Other tanks excluded from notification are:
1. farm or residential tanks of 1,100 gallons or less capacity used for storing motor fuel for noncommercial purposes;
2. tanks used for storing heating oil for consumptive use on the premises where stored;
3. septic tanks;
4. pipeline facilities (including gathering lines) regulated under the Natural Gas Pipeline Safety Act of 1968, or the Hazardous Liquid Pipeline Safety Act of 1979, or which is an intrastate pipeline facility regulated under State laws;
5. surface impoundments, pits, ponds, or lagoons;
6. storm water or wastewater collection systems;
7. flow-through process tanks;
8. liquid traps or associated gathering lines directly related to oil or gas production and gathering operations;
9. storage tanks situated in an underground area (such as a basement, cellar, mine working, drift, shaft, or tunnel) if the storage tank is situated upon or above the surface of the floor.

What Substances Are Covered? The notification requirements apply to underground storage tanks that contain regulated substances. This includes any substance defined as hazardous in Section 101 (14) of the Comprehensive Environmental Response, Compensation and Liability Act of 1980 (CERCLA) with the exception of those substances regulated as hazardous waste under Subtitle C of RCRA. It also includes petroleum, e.g., crude oil or any fraction thereof which is liquid at standard conditions of temperature and pressure (60 degrees Fahrenheit and 14.7 pounds per square inch absolute).

Where To Notify? Completed notification forms should be sent to the address given at the top of this page.

When To Notify? 1. Owners of underground storage tanks in use or that have been taken out of operation after January 1, 1974, but still in the ground, must notify by May 8, 1986. 2. Owners who bring underground storage tanks into use after May 8, 1986, must notify within 30 days of bringing the tanks into use.

Penalties: Any owner who knowingly fails to notify or submits false information shall be subject to a civil penalty not to exceed $10,000 for each tank for which notification is not given or for which false information is submitted.

INSTRUCTIONS

Please type or print in ink all items except "signature" in Section V. This form must by completed for each location containing underground storage tanks. If more than 5 tanks are owned at this location, photocopy the reverse side, and staple continuation sheets to this form.

Indicate number of continuation sheets attached

I. OWNERSHIP OF TANK(S)

Owner Name (Corporation, Individual, Public Agency, or Other Entity): 27th CE/UP

Street Address: 111 Engineers Way

County: Curry

City: Cannon AFB State: NM ZIP Code: 88103

Area Code: 505 Phone Number: 784-6022

Type of Owner (Mark all that apply ☒)

- ☐ Current
- ☐ Former
- ☐ State or Local Govt
- ☒ Federal Govt (GSA facility I.D. no.)
- ☐ Private or Corporate
- ☐ Ownership uncertain

II. LOCATION OF TANK(S)

(If same as Section 1, mark box here ☐)

Facility Name or Company Site Identifier, as applicable: Bldg. 119 SWMU 7

Street Address or Site Plan, as applicable:

County: Curry

City (nearest): Cannon AFB State: NM ZIP Code: 88103

Indicate number of tanks at this location: 7

Mark box here if tank(s) are located on land within an Indian reservation or on other Indian trust lands ☐

III. CONTACT PERSON AT TANK LOCATION

Name (If same as Section I, mark box here ☐): [illegible]

Job Title: C.E.C Chief

Area Code: 505 Phone Number: 769-9216

IV. TYPE OF NOTIFICATION

☐ Mark box here only if this is an amended or subsequent notification for this location.

V. CERTIFICATION (Read and sign after completing Section VI.)

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete.

Name and official title of owner or owner's authorized representative	Signature	Date Signed

CONTINUE ON REVERSE SIDE

Owner Name (from Section I) _____ Location (from Section II) _____ Page No. ___ of ___ Pages

Underground Storage Tanks (Complete for each tank at this location)

Tank Identification No. (e.g., ABC-123), or Arbitrarily Assigned Sequential Number (e.g., 1, 2, 3...)	Tank No.	Tank No.	Tank No.	Tank No.	Tank No.
1. Status of Tank (Mark all that apply ☒)					
Currently in Use	☐	☐	☐	☐	☐
Temporarily Out of Use	☐	☐	☐	☐	☐
Permanently Out of Use	☒	☐	☐	☐	☐
Brought into Use after 5/8/86	☐	☐	☐	☐	☐
2. Estimated Age (Years)	33				
3. Estimated Total Capacity (Gallons)	2000				
4. Material of Construction (Mark one ☒)					
Steel	☐	☐	☐	☐	☐
Concrete	☒	☐	☐	☐	☐
Fiberglass Reinforced Plastic	☐	☐	☐	☐	☐
Unknown	☐	☐	☐	☐	☐
Other, Please Specify					
5. Internal Protection (Mark all that apply ☒)					
Cathodic Protection	☐	☐	☐	☐	☐
Interior Lining (e.g., epoxy resins)	☐	☐	☐	☐	☐
None	☒	☐	☐	☐	☐
Unknown	☐	☐	☐	☐	☐
Other, Please Specify					
6. External Protection (Mark all that apply ☒)					
Cathodic Protection	☐	☐	☐	☐	☐
Painted (e.g., asphaltic)	☐	☐	☐	☐	☐
Fiberglass Reinforced Plastic Coated	☐	☐	☐	☐	☐
None	☒	☐	☐	☐	☐
Unknown	☐	☐	☐	☐	☐
Other, Please Specify					
7. Piping (Mark all that apply ☒)					
Bare Steel	☒	☐	☐	☐	☐
Galvanized Steel	☐	☐	☐	☐	☐
Fiberglass Reinforced Plastic	☐	☐	☐	☐	☐
Cathodically Protected	☐	☐	☐	☐	☐
Unknown	☐	☐	☐	☐	☐
Other, Please Specify					
8. Substance Currently or Last Stored in Greatest Quantity by Volume (Mark all that apply ☒)					
a. Empty	☐	☐	☐	☐	☐
b. Petroleum					
Diesel	☐	☐	☐	☐	☐
Kerosene	☐	☐	☐	☐	☐
Gasoline (including alcohol blends)	☐	☐	☐	☐	☐
Used Oil	☐	☐	☐	☐	☐
Other, Please Specify	water/sludge				
c. Hazardous Substance	☐	☐	☐	☐	☐
Please Indicate Name of Principal CERCLA Substance OR Chemical Abstract Service (CAS) No.					
Mark box ☒ if tank stores a mixture of substances	☒	☐	☐	☐	☐
d. Unknown	☐	☐	☐	☐	☐
9. Additional Information (for tanks permanently taken out of service)					
a. Estimated date last used (mo/yr)	11 / 96	/	/	/	/
Estimated quantity of substance remaining (gal.)	0				
Mark box ☒ if tank was filled with inert material (e.g., sand, concrete)	☒	☐	☐	☐	☐

CHEYENNE BUILDING CONTRACTORS, INC.
QUALITY CONTROL FIELD NOTES
UNIT REMOVAL AT CANNON AFB, NM
CONTRACT NO.: DACA47-95-D-0035

DATE: 11/22/96
TIME: 10:00AM
WEATHER: Mild
TEMP.: 70°

UNIT INFORMATION

Unit Owner: U.S. Army Corp of Engineers Phone No.: 505-784-4351

Address: P.O. Box 1580 Albuquerque, NM 87103

Bldg. No.: 494 SWMU No.: 47A

Date Installed: 1982 Date Last Used: 11/96

Units Association with Facility: Sand trap for floor drain

Unit Width: 4' Unit Length: 5' Unit Depth: 5.5'

Unit Contents: Cont. H_2O + Sludge Gallons Removed: 165 gal H_2O
23.83 gal sludge

Type of Ground Cover: Sand + gravel

Petroleum Odors: YES ☐ NO ☒

Visual Characterization of Soil: Clean!

Evidence of a Spill: YES ☐ NO ☒

Other Potential Sources of Contamination: leaking pipes

ANK CLOSURE WORKSHEET
(COMPLETE AFTER CLOSURE)

Tank Owner 27th CEPEUP Phone 784-6022
Mailing Address 111 Engineers Way Cannon AFB NM 88103
Tank Address Bldg. 494 SC-MW 47A
Contractor Name Cheyenne Bldg. Const INC Phone 769-9019
Address 1712 S Pine St CLOVIS NM 88101
Contractor Name _____ Phone _____
Address _____

Tank Closure Date 11/22/96 # of Tanks Closed 1

****

I. Tank Closure Initial Procedures (check measures complied with):
- ✓ Obtain recommended safety equipment for all personnel
- ✓ Contact Fire Marshall or other fire officials
- ✓ Bond or ground equipment
- ✓ Drain product from piping and tank
- ✓ Disconnect, then cap or remove piping
- ✓ Remove all residual product from tank
- ✓ Excavate to tank top
- ✓ Remove all tank fixtures
- ✓ Properly purge or inert tank of all flammable vapors using approved method
- ✓ Continually monitor for explosive vapors while tank is being removed

II. Tank Removal
- ✓ Create vent hole
- ✓ Excavate tank using all safety precautions
- ✓ Clean and inspect tank
- ✓ Check excavation for evidence of leaks and notify EID and other proper authorities if leak is found
- ✓ Check vapor levels in tank before transporting
- ✓ Dispose of tank in approved manner

Tank disposal location CLOVIS City Landfill NM
City State

How did you assess site for leakage? Field Screening/Laboratory's Correlation
Closure report kept at 111 Engineers Way Cannon AFB NM 88103
NOTE: Immediately report any evidence of leakage to EID at 827-0188

I hereby state that the above information is correct

[signature] CQC Cheyenne Bldg. Const. INC.
Signature of owner or contractor performing work

****

FOR EID USE ONLY
Notification Received _____ Approved By _____
Inspection Date _____ Inspector _____

Notification for Underground Storage Tanks

UST BUREAU/EID
1190 St. Francis Drive
Santa Fe, NM 87503

I.D. Number

STATE USE ONLY

Date Received

GENERAL INFORMATION

Notification is required by Federal law for all underground tanks that have been used to store regulated substances since January 1, 1974, that are in the ground as of May 8, 1986, or that are brought into use after May 8, 1986. The information requested is required by Section 9002 of the Resource Conservation and Recovery Act (RCRA) as amended.

The primary purpose of this notification program is to locate and evaluate underground tanks that store or have stored petroleum or hazardous substances. It is expected that the information you provide will be based on reasonably available records, or, in the absence of such records, your knowledge, belief, or recollection.

Who Must Notify? Section 9002 of RCRA, as amended, requires that, unless exempted, owners of underground tanks that store regulated substances must notify designated State or local agencies of the existence of their tanks. Owner means—

(a) in the case of an underground storage tank in use on November 8, 1984, or brought into use after that date, any person who owns an underground storage tank used for the storage, use, or dispensing of regulated substances; and

(b) in the case of any underground storage tank in use before November 8, 1984, but no longer in use on that date, any person who owned such tank immediately before the discontinuation of its use.

What Tanks Are Included? Underground storage tank is defined as any one or combination of tanks that (1) is used to contain an accumulation of "regulated substances," and (2) whose volume (including connected underground piping) is 10% or more beneath the ground. Some examples are underground tanks storing: 1. gasoline, used oil, or diesel fuel, and 2. industrial solvents, pesticides, herbicides or fumigants.

What Tanks Are Excluded? Tanks removed from the ground are not subject to notification. Other tanks excluded from notification are:

1. farm or residential tanks of 1,100 gallons or less capacity used for storing motor fuel for noncommercial purposes;
2. tanks used for storing heating oil for consumptive use on the premises where stored;
3. septic tanks;
4. pipeline facilities (including gathering lines) regulated under the Natural Gas Pipeline Safety Act of 1968, or the Hazardous Liquid Pipeline Safety Act of 1979, or which is an intrastate pipeline facility regulated under State laws;
5. surface impoundments, pits, ponds, or lagoons;
6. storm water or wastewater collection systems;
7. flow-through process tanks;
8. liquid traps or associated gathering lines directly related to oil or gas production and gathering operations;
9. storage tanks situated in an underground area (such as a basement, cellar, mineworking, drift, shaft, or tunnel) if the storage tank is situated upon or above the surface of the floor.

What Substances Are Covered? The notification requirements apply to underground storage tanks that contain regulated substances. This includes any substance defined as hazardous in Section 101 (14) of the Comprehensive Environmental Response, Compensation and Liability Act of 1980 (CERCLA) with the exception of those substances regulated as hazardous waste under Subtitle C of RCRA. It also includes petroleum, e.g., crude oil or any fraction thereof which is liquid at standard conditions of temperature and pressure (60 degrees Fahrenheit and 14.7 pounds per square inch absolute).

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Penalties: Any owner who knowingly fails to notify or submits false information shall be subject to a civil penalty not to exceed $10,000 for each tank for which notification is not given or for which false information is submitted.

INSTRUCTIONS

Please type or print in ink all items except "signature" in Section V. This form must by completed for each location containing underground storage tanks. If more than 5 tanks are owned at this location, photocopy the reverse side, and staple continuation sheets to this form.

Indicate number of continuation sheets attached: [ ]

I. OWNERSHIP OF TANK(S)

Owner Name (Corporation, Individual, Public Agency, or Other Entity): 27th CE/CEUP

Street Address: 111 Engineers Way

County: Curry

City: Cannon AFB State: NM ZIP Code: 88103

Area Code: 505 Phone Number: 784-6022

Type of Owner (Mark all that apply ☒)

- [ ] Current
- [ ] Former
- [ ] State or Local Govt
- [x] Federal Govt (GSA facility I.D. no. _____)
- [ ] Private or Corporate
- [ ] Ownership uncertain

II. LOCATION OF TANK(S)

(If same as Section 1, mark box here [ ])

Facility Name or Company Site Identifier, as applicable

Street Address or State Road, as applicable

County

City (nearest) State ZIP Code

Indicate number of tanks at this location: [ ]

Mark box here if tank(s) are located on land within an Indian reservation or on other Indian trust lands: [ ]

III. CONTACT PERSON AT TANK LOCATION

Name (If same as Section I, mark box here [ ]): Troy Mendez

Job Title: CQC Cheyenne Bldg. Cont. INC.

Area Code: 505 Phone Number: 768-9216

IV. TYPE OF NOTIFICATION

[ ] Mark box here only if this is an amended or subsequent notification for this location.

V. CERTIFICATION (Read and sign after completing Section VI.)

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete.

Name and official title of owner or owner's authorized representative	Signature	Date Signed

CONTINUE ON REVERSE SIDE

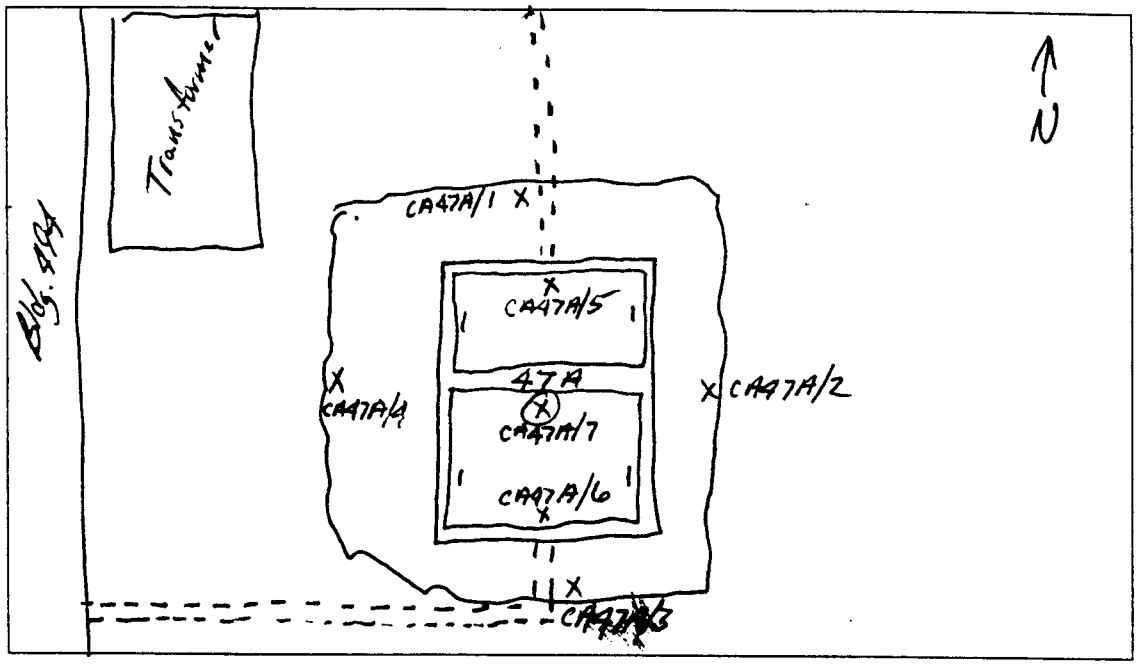
Location (from Section II) _____ Page No. ____ of ____ Pages

Tank Identification No. (e.g., ABC-123), or Arbitrarily Assigned Sequential Number (e.g., 1, 2, 3...)	Tank No.	Tank No.	Tank No.	Tank No.	Tank No.
1. Status of Tank (Mark all that apply ☒)					
Currently in Use	☐	☐	☐	☐	☐
Temporarily Out of Use	☐	☐	☐	☐	☐
Permanently Out of Use	☑	☐	☐	☐	☐
Brought into Use after 5/8/86	☐	☐	☐	☐	☐
2. Estimated Age (Years)					
3. Estimated Total Capacity (Gallons)					
4. Material of Construction (Mark one ☒)					
Steel	☐	☐	☐	☐	☐
Concrete	☑	☐	☐	☐	☐
Fiberglass Reinforced Plastic	☐	☐	☐	☐	☐
Unknown	☐	☐	☐	☐	☐
Other, Please Specify					
5. Internal Protection (Mark all that apply ☒)					
Cathodic Protection	☐	☐	☐	☐	☐
Interior Lining (e.g., epoxy resins)	☐	☐	☐	☐	☐
None	☑	☐	☐	☐	☐
Unknown	☐	☐	☐	☐	☐
Other, Please Specify					
6. External Protection (Mark all that apply ☒)					
Cathodic Protection	☐	☐	☐	☐	☐
Painted (e.g., asphaltic)	☐	☐	☐	☐	☐
Fiberglass Reinforced Plastic Coated	☐	☐	☐	☐	☐
None	☑	☐	☐	☐	☐
Unknown	☐	☐	☐	☐	☐
Other, Please Specify					
7. Piping (Mark all that apply ☒)					
Bare Steel	☐	☐	☐	☐	☐
Galvanized Steel	☐	☐	☐	☐	☐
Fiberglass Reinforced Plastic	☐	☐	☐	☐	☐
Cathodically Protected	☐	☐	☐	☐	☐
Unknown	☐	☐	☐	☐	☐
Other, Please Specify	Cast IRON				
8. Substance Currently or Last Stored in Greatest Quantity by Volume (Mark all that apply ☒)					
a. Empty	☐	☐	☐	☐	☐
b. Petroleum					
Diesel	☐	☐	☐	☐	☐
Kerosene	☐	☐	☐	☐	☐
Gasoline (including alcohol blends)	☐	☐	☐	☐	☐
Used Oil	☐	☐	☐	☐	☐
Other, Please Specify	Cont. Haz/Sludge				
c. Hazardous Substance	☐	☐	☐	☐	☐
Please Indicate Name of Principal CERCLA Substance OR Chemical Abstract Service (CAS) No.					
Mark box ☒ if tank stores a mixture of substances	☒	☐	☐	☐	☐
d. Unknown	☐	☐	☐	☐	☐
9. Additional Information (for tanks permanently taken out of service)					
a. Estimated date last used (mo/yr)	11 / 96	/	/	/	/
b. Estimated quantity of substance remaining (gal.)	0				
c. Mark box ☒ if tank was filled with inert material (e.g., sand, concrete)	☐	☐	☐	☐	☐

EPA Form 7530-1 (11-85) Reverse

Page

SKETCH: SWMU 47A



CA47A/1 thru CA47A/6 : Field Screening Samples

CA47A/7: Confirmatory Sample (site)

CA47A/8: Excavated Material Confirmatory

CA47A/3 + CA47A/5 : Correlation Samples

SAMPLE INFORMATION

Sample ID No.: CA47A/1-96-1122-1400, CA47A/2-96-1122-1401, CA47A/3-96-1122-1402
CA47A/4-96-1122-1403

Sample Depth: 7'-6" Sample Matrix: Soil

Sample Location: sides of excavation

Sample Purpose: Field Screening

Number of Samples Taken: 4 Preservatives Used: ICE

Sample Method: Immnoassay TPH + BTEX, Headspace

Headspace Analysis: CA47A/1 = 0.0PPM, CA47A/2 = 0.0PPM, CA47A/3 0.2 PPM,
CA47A/4 = 0.1 PPM VOC

Contaminated Action Level: 7100ppm TPH + 750 PPM BTEX

SAMPLE INFORMATION

Sample ID No.: CA47A/5-96-1122-1404, CA47A/6-96-1122-1405

Sample Depth: 7'-6" Sample Matrix: Soil

Sample Location: Center of excavation

Sample Purpose: Field Screening

Number of Samples Taken: 2 Preservatives Used: ICE

Sample Method: Immnoassay TPH + BTEX, Headspace

Headspace Analysis: CA47/5 0.3PPM VOC CA47A/6 = 0.1PPM VOC

Contaminated Action Level: 7100PPM TPH + 750 PPM BTEX

SAMPLE INFORMATION

Sample ID No.: CA47A/7-96-1122-1406

Sample Depth: 7'-6" Sample Matrix: Soil

Sample Location: Center of excavation

Sample Purpose: Confirmatory Closure

Number of Samples Taken: 4 Preservatives Used: ICE

Sample Method: 8015, 8260, 8270, 6010 + 7470 using 1311 Extraction

Headspace Analysis: NT

Contaminated Action Level:

SAMPLE INFORMATION

Sample ID No.: CA47A/8-96-1122-1407

Sample Depth: composite Sample Matrix: Soil

Sample Location: excavated material

Sample Purpose: Disposal

Number of Samples Taken: 2 Preservatives Used: ICE

Sample Method: 8015, 8020, + 1311

Headspace Analysis: NT

Contaminated Action Level: >100 PPM TPH + >50 PPM BTEX

SAMPLE INFORMATION

Sample ID No.: CA47A/3-96-1122-1402

Sample Depth: 7'-6" Sample Matrix: Soil

Sample Location: Side of excavation

Sample Purpose: field screening / Lab analysis corrvelation

Number of Samples Taken: 1 Preservatives Used: ICE

Sample Method: 8015 + 8020

Headspace Analysis: 0.2 PPM VOC

Contaminated Action Level: 7100 PPM TPH + 750 PPM BTEX

SAMPLE INFORMATION

Sample ID No.: CA47A/5-96-1122-1404

Sample Depth: 7'-6" Sample Matrix: Soil

Sample Location: center of excavation

Sample Purpose: field Screening / Lab analysis corrvelation

Number of Samples Taken: 1 Preservatives Used: ICE

Sample Method: 8015 + 8020

Headspace Analysis: 0.3 PPM VOC

Contaminated Action Level: >100 PPM TPH + 750 PPM BTEX

DATA SHEET
ENVIROGARD PETROLEUM FUELS (BTEX) IN SOIL TEST KIT

	OD VALUE
Negative Control	0.89
10 ppm BTEX Calibrator	0.69
50 ppm BTEX Calibrator	0.49
300 ppm BTEX Calibrator	0.19

SAMPLE ID	OD VALUE	INTERPRETATION
CA47A/1-96-1122-1400	0.60	710 < 50 PPM BTEX
CA47A/2-96-1122-1401	0.60	710 < 50 PPM BTEX
CA47A/3-96-1122-1402	0.59	710 < 50 PPM BTEX
CA47A/4-96-1122-1403	0.61	710 < 50 PPM BTEX
CA47A/5-96-1122-1404	0.50	710 < 50 PPM BTEX
CA47A/6-96-1122-1405	0.60	710 < 50 PPM BTEX

DATA SHEET
ENVIROGARD PETROLEUM FUELS (TPH) IN SOIL TEST KIT

	OD VALUE
Negative Control	1.19
20 ppm BTEX Calibrator	0.85
100 ppm BTEX Calibrator	0.49
600 ppm BTEX Calibrator	0.19

SAMPLE ID	OD VALUE	INTERPRETATION
CA47A/1-96-1122-1400	0.98	<20 PPM TPH
CA47A/2-96-1122-1401	0.95	<20 PPM TPH
CA47A/3-96-1122-1402	1.00	<20 PPM TPH
CA47A/4-96-1122-1403	0.94	<20 PPM TPH
CA47A/5-96-1122-1404	0.68	>20 <100 PPM TPH
CA47A/6-96-1122-1405	0.93	<20 PPM TPH

CHEYENNE
BUILDING CONTRACTORS INC.

P.O. BOX 418
CLOVIS, NEW MEXICO 88102-0418
(505) 769-9019 • FAX (505) 769-2588

GB98
LIC. NO. 30759

CERTIFICATE OF VAPOR TESTING

DATE 11/22/96

TANK OWNER 22th CE/CEVP PHONE 505 784 6022

ADDRESS 111 Engineers Way Cannon AFB NM 88103

CONTRACTOR REMOVING TANK Cheyenne

ADDRESS P.O. Box 418 Clovis NM PHONE 769-9019

CHEYENNE BUILDERS IS CERTIFIED CONTRACTOR IN VAPOR TESTING.

I Troy Moralez HEREBY CERTIFY THAT ~~TANK~~ SWMU 47A AT Bldg. 494 IS FREE FROM COMBUSTIBLE MATERIAL.

TROY MORALEZ

MIKE LANDGRAF

EXCAVATION CHECK LIST

Company Cheyenne	Date 11/22/96
Site Location/Description SWMU 47A at Bldg. 494	Time 10:00 ☒ AM ☐ PM
Inspected by Troy Morales	Project Number DACA47-95-D-0035

INSTRUCTIONS: Read the ITEM NUMBER and DESCRIPTION to determine the current conditions of this excavation site. Mark an (X) in the YES column if the description is present and has been satisfied. Mark an (X) in the NO column if the item has not been completed. Mark a line (–) across the YES and No columns if the ITEM does not apply. Use the NOTES section to list the ITEM NUMBER. Write any comments that apply to the ITEM NUMBER.

Item	DESCRIPTION	YES	NO	Item No.	DESCRIPTION	YES	NO
1	The utility company has been notified of excavation work schedule.	✓		19	Employees working below other employees in trench are protected from hazards.	✓	
2	Location of underground utility lines are identified.	✓		20	The trench is free of standing water.	✓	
3	Hazardous objects have been removed from excavation area or blocked securely.	✓		21	The proper water removal equipment is operating under guidance of competent person.	✓	
4	Soil type is classified.	✓		22	Diversion ditches or dikes are in place to prevent surface water from entering trench.	✓	
5	Sloping and Benching system is designed per OSHA requirements.	✓		23	The trench is inspected by competent person following any amount of rain.	✓	
6	Timber shoring system is designed per OSHA requirements.	✓		24	Employees are wearing proper safety equipment.	✓	
7	Aluminum Hydraulic shoring system is designed per OSHA requirements.	✓		25	Test air quality in trench if a hazardous atmosphere is suspected.	✓	
8	Shielding system is designed per OSHA requirements.	✓		26	A ventilation or respiratory protection is in use.	✓	
9	Shields are free from damage or defects.	✓		27	Protective support systems are installed from the top down.	✓	
10	Employees are protected from cave-ins when entering and exiting the shield.	✓		28	Protective support systems are dismantled from the bottom up.	✓	
11	When a combination of sloping and shielding is used, the shield must extend 18 inches above the bottom slope of the excavation.	✓		29	Excavation is backfilled as the protective system is dismantled.	✓	
12	A ladder is provided and secured in trench four or more feet deep; top of ladder extending at least 36 inches above edge of trench.	✓		30	Heavy equipment is mounted on wooden mats to distribute weight.	✓	
13	A ladder is within 25 feet of all employees working in trench	✓		31	Damaged materials or equipment are removed from service.	✓	
14	Excavated material is stored at least two feet from the edge of the excavation.	✓		32	An emergency response program is in place.	✓	
15	Employees are protected from loose material which could fall into trench.	✓		33	Life support equipment is in working order.	✓	
16	A competent person inspects the trench prior to the start of the shift.	✓		34	Note other conditions. Oxy 21%		
17	The location of trench is marked by banners, barricades or other signals.	✓		35	Breathing Zone 0.0 PPM		
18	Bridges or walkways over excavations are equipped with guardrails and toeboards.	✓		36	CGI - 2% LEL		

Notes:

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CHEYENNE BUILDING CONTRACTORS, INC.
QUALITY CONTROL FIELD NOTES
UNIT REMOVAL AT CANNON AFB, NM
CONTRACT NO.: DACA47-95-D-0035

DATE: 12-2-96
TIME: 8:00
WEATHER: Breezy
TEMP.: 56°

UNIT INFORMATION

Unit Owner: U.S. Army Corp of Engineers Phone No.: 505-784-4351

Address: P.O. Box 1580 Albuquerque, NM 87103

Bldg. No.: 379 SWMU No.: 57

Date Installed: 1965 Date Last Used: 12/96

Units Association with Facility: Solid Waste Management Unit for bldg. 379

Unit Width: 5' Unit Length: 6'-6" Unit Depth: 6'

Unit Contents: water / sludge Gallons Removed: 474.83 gal H_2O / 67.83 gal sludge

Type of Ground Cover: Asphalt pavement

Petroleum Odors: YES ☐ NO ☒

Visual Characterization of Soil: Clean

Evidence of a Spill: YES ☐ NO ☒

Other Potential Sources of Contamination: leaking pipes

ANK CLOSURE WORKSHEET
(COMPLETE AFTER CLOSURE)

Tank Owner 27TH CE/CEVP Phone 784-6022
Mailing Address 111 Engineers Way Cannon AFB NM 88103
Tank Address Bldg. 379 SWMU 57
Contractor Name Cheyenne Phone 769-9019
Address 1712 S Prince St Clovis NM 88101
Contractor Name _____ Phone _____
Address _____

Tank Closure Date 12-2-96 # of Tanks Closed 1

****

I. Tank Closure Initial Procedures (check measures complied with):

- X Obtain recommended safety equipment for all personnel
- X Contact Fire Marshall or other fire officials
- X Bond or ground equipment
- X Drain product from piping and tank
- X Disconnect, then cap or remove piping
- X Remove all residual product from tank
- X Excavate to tank top
- X Remove all tank fixtures
- X Properly purge or inert tank of all flammable vapors using approved method
- X Continually monitor for explosive vapors while tank is being removed

II. Tank Removal

- X Create vent hole
- X Excavate tank using all safety precautions
- X Clean and inspect tank
- X Check excavation for evidence of leaks and notify EID and other proper authorities if leak is found
- X Check vapor levels in tank before transporting
- X Dispose of tank in approved manner

Tank disposal location Land fill Clovis NM 88101
City State

How did you assess site for leakage? Field screening/Lab analysis
Closure report kept at 111 Engineers Way Cannon AFB NM88103
NOTE: Immediately report any evidence of leakage to EID at 827-0188

I hereby state that the above information is correct

CQC Cheyenne Bldg. Cont. INC.
Signature of owner or contractor performing work

****

FOR EID USE ONLY
Notification Received _____ Approved By _____
Inspection Date _____ Inspector _____

Notification for Underground Storage Tanks

UST BUREAU/EID
1190 St. Francis Drive
Santa Fe, NM 87503

STATE USE ONLY

I.D. Number

Date Received

GENERAL INFORMATION

Notification is required by Federal law for all underground tanks that have been used to store regulated substances since January 1, 1974, that are in the ground as of May 8, 1986, or that are brought into use after May 8, 1986. The information requested is required by Section 9002 of the Resource Conservation and Recovery Act (RCRA), as amended.

The primary purpose of this notification program is to locate and evaluate underground tanks that store or have stored petroleum or hazardous substances. It is expected that the information you provide will be based on reasonably available records, or, in the absence of such records, your knowledge, belief, or recollection.

Who Must Notify? Section 9002 of RCRA, as amended, requires that, unless exempted, owners of underground tanks that store regulated substances must notify designated State or local agencies of the existence of their tanks. Owner means—

(a) in the case of an underground storage tank in use on November 8, 1984, or brought into use after that date, any person who owns an underground storage tank used for the storage, use, or dispensing of regulated substances; and

(b) in the case of any underground storage tank in use before November 8, 1984, but no longer in use on that date, any person who owned such tank immediately before the discontinuation of its use.

What Tanks Are Included? Underground storage tank is defined as any one or combination of tanks that (1) is used to contain an accumulation of "regulated substances," and (2) whose volume (including connected underground piping) is 10% or more beneath the ground. Some examples are underground tanks storing: 1. gasoline, used oil, or diesel fuel, and 2. industrial solvents, pesticides, herbicides or fumigants.

What Tanks Are Excluded? Tanks removed from the ground are not subject to notification. Other tanks excluded from notification are:

1. farm or residential tanks of 1,100 gallons or less capacity used for storing motor fuel for noncommercial purposes;
2. tanks used for storing heating oil for consumptive use on the premises where stored;
3. septic tanks;
4. pipeline facilities (including gathering lines) regulated under the Natural Gas Pipeline Safety Act of 1968, or the Hazardous Liquid Pipeline Safety Act of 1979, or which is an intrastate pipeline facility regulated under State laws;
5. surface impoundments, pits, ponds, or lagoons;
6. storm water or wastewater collection systems;
7. flow-through process tanks;
8. liquid traps or associated gathering lines directly related to oil or gas production and gathering operations;
9. storage tanks situated in an underground area (such as a basement, cellar, mine working, drift, shaft, or tunnel) if the storage tank is situated upon or above the surface of the floor.

What Substances Are Covered? The notification requirements apply to underground storage tanks that contain regulated substances. This includes any substance defined as hazardous in section 101 (14) of the Comprehensive Environmental Response, Compensation and Liability Act of 1980 (CERCLA), with the exception of those substances regulated as hazardous waste under Subtitle C of RCRA. It also includes petroleum, e.g., crude oil or any fraction thereof which is liquid at standard conditions of temperature and pressure (60 degrees Fahrenheit and 14.7 pounds per square inch absolute).

Where To Notify? Completed notification forms should be sent to the address given at the top of this page.

When To Notify? 1. Owners of underground storage tanks in use or that have been taken out of operation after January 1, 1974, but still in the ground, must notify by May 8, 1986. 2. Owners who bring underground storage tanks into use after May 8, 1986, must notify within 30 days of bringing the tanks into use.

Penalties: Any owner who knowingly fails to notify or submits false information shall be subject to a civil penalty not to exceed $10,000 for each tank for which notification is not given or for which false information is submitted.

INSTRUCTIONS

Please type or print in ink all items except "signature" in Section V. This form must by completed for each location containing underground storage tanks. If more than 5 tanks are owned at this location, photocopy the reverse side, and staple continuation sheets to this form.

Indicate number of continuation sheets attached: [ ]

I. OWNERSHIP OF TANK(S)

Owner Name (Corporation, Individual, Public Agency, or Other Entity): 27th CE/CEUP

Street Address: 111 Engineers Way

County: Curry

City: Cannon AFB State: NM ZIP Code: 88103

Area Code: 505 Phone Number: 784-6022

Type of Owner (Mark all that apply ☒)

- [ ] Current
- [ ] Former
- [ ] State or Local Gov't
- [x] Federal Gov't (GSA facility I.D. no. _____)
- [ ] Private or Corporate
- [ ] Ownership uncertain

II. LOCATION OF TANK(S)

(If same as Section 1, mark box here [ ])

Facility Name or Company Site Identifier, as applicable: Bldg. SWMU 57

Street Address or State Road, as applicable:

County: Curry

City (nearest): Cannon AFB State: NM ZIP Code: 88103

Indicate number of tanks at this location: 1

Mark box here if tank(s) are located on land within an Indian reservation or on other Indian trust lands: [ ]

III. CONTACT PERSON AT TANK LOCATION

Name (If same as Section I, mark box here [ ]): [illegible] Job Title: Col Cheyenne Area Code: 505 Phone Number: 769-9216

IV. TYPE OF NOTIFICATION

[ ] Mark box here only if this is an amended or subsequent notification for this location.

V. CERTIFICATION (Read and sign after completing Section VI.)

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete.

Name and official title of owner or owner's authorized representative	Signature	Date Signed

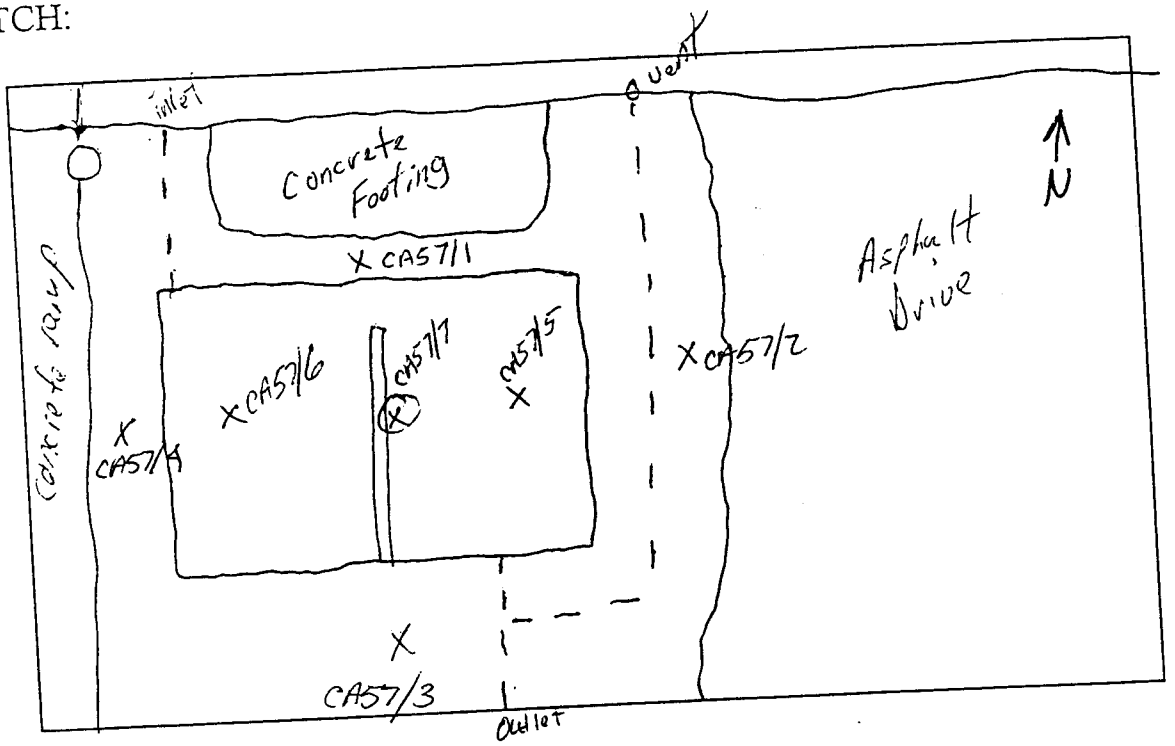
CONTINUE ON REVERSE SIDE

Owner Name (from Section I) _____ Location (from Section II) _____ Page No. ____ of ____ Pages

[redacted]

Tank Identification No. (e.g., ABC-123), or Arbitrarily Assigned Sequential Number (e.g., 1,2,3...)	Tank No.	Tank No.	Tank No.	Tank No.	Tank No.
1. [illegible] of Tank (Mark all that apply ☒) Currently in Use	☐	☐	☐	☐	☐
Temporarily Out of Use	☐	☐	☐	☐	☐
Permanently Out of Use	☒	☐	☐	☐	☐
Brought into Use after 5/8/86	☐	☐	☐	☐	☐
2. Estimated Age (Years)	31				
3. Estimated Total Capacity (Gallons)	600				
4. Material of Construction (Mark one ☒) Steel	☐	☐	☐	☐	☐
Concrete	☒	☐	☐	☐	☐
Fiberglass Reinforced Plastic	☐	☐	☐	☐	☐
Unknown	☐	☐	☐	☐	☐
Other, Please Specify					
5. Internal Protection (Mark all that apply ☒) Cathodic Protection	☐	☐	☐	☐	☐
Interior Lining (e.g., epoxy resins)	☐	☐	☐	☐	☐
None	☒	☐	☐	☐	☐
Unknown	☐	☐	☐	☐	☐
Other, Please Specify					
6. External Protection (Mark all that apply ☒) Cathodic Protection	☐	☐	☐	☐	☐
Painted (e.g., asphaltic)	☐	☐	☐	☐	☐
Fiberglass Reinforced Plastic Coated	☐	☐	☐	☐	☐
None	☒	☐	☐	☐	☐
Unknown	☐	☐	☐	☐	☐
Other, Please Specify					
7. Piping (Mark all that apply ☒) Bare Steel	☐	☐	☐	☐	☐
Galvanized Steel	☐	☐	☐	☐	☐
Fiberglass Reinforced Plastic	☐	☐	☐	☐	☐
Cathodically Protected	☐	☐	☐	☐	☐
Unknown	☐	☐	☐	☐	☐
Other, Please Specify	Cast Iron				
8. Substance Currently or Last Stored in Greatest Quantity by Volume (Mark all that apply ☒) a. Empty	☐	☐	☐	☐	☐
b. Petroleum					
Diesel	☐	☐	☐	☐	☐
Kerosene	☐	☐	☐	☐	☐
Gasoline (including alcohol blends)	☐	☐	☐	☐	☐
Used Oil	☐	☐	☐	☐	☐
Other, Please Specify	Cont H_2O/sludge				
c. Hazardous Substance	☐	☐	☐	☐	☐
Please Indicate Name of Principal CERCLA Substance OR Chemical Abstract Service (CAS) No.					
Mark box ☒ if tank stores a mixture of substances	☒	☐	☐	☐	☐
d. Unknown	☐	☐	☐	☐	☐
9. Additional Information (for tanks permanently taken out of service) a. Estimated date last used (mo/yr)	12/96	/	/	/	/
b. Estimated quantity of substance remaining (gal.)	0				
Mark box ☒ if tank was filled with inert material (e.g., sand, concrete)	☐	☐	☐	☐	☐

SKETCH:



CA57/1 thru CA57/6 : Field Screening Samples

CA57/7 : Confirmatory Sample (site)

CA57/8 : Excavated Material Confirmatory

CA57/1 + CA57/5 : Correlation Samples

SAMPLE INFORMATION

Sample ID No.: CA57/1-96-1202-0945, CA57/2-96-1202-0946; CA57/3-96-1202-0947
CA57/4-96-1202-0948

Sample Depth: 8' Sample Matrix: Soil

Sample Location: sides of excavation

Sample Purpose: Field Screening

Number of Samples Taken: 4 Preservatives Used: ICE

Sample Method: Immnoassay TPH, BTEX & Head space

Headspace Analysis: CA57/1= 0.0ppm, CA57/2=0.0ppm VOC, CA57/3=0.0PPM
CA57/4=0.0ppm VOC

Contaminated Action Level: >100PPM TPH + >50PPM BTEX

SAMPLE INFORMATION

Sample ID No.: CA57/5-96-1202-0949, CA57/6-96-1202-0950

Sample Depth: 8' Sample Matrix: Soil

Sample Location: center of excavation

Sample Purpose: Field Screening

Number of Samples Taken: 2 Preservatives Used: ICE

Sample Method: Immnoassay TPH, BTEX & Headspace

Headspace Analysis: CA57/5 0.1ppm + CA57/6 = 0.0ppm VOC's

Contaminated Action Level: >100PPM TPH + >50PPM BTEX

SAMPLE INFORMATION

Sample ID No.: CA57/7-96-1202-0951

Sample Depth: 8' Sample Matrix: Soil

Sample Location: Center of Excavation

Sample Purpose: Confirmatory Closure

Number of Samples Taken: 4 Preservatives Used: ICE

Sample Method: 8015, 8260, 8270, 6010 and 7470 using 1311 Extr.

Headspace Analysis: NT

Contaminated Action Level:

SAMPLE INFORMATION

Sample ID No.: CA57/8-96-1202-0952

Sample Depth: Composite Sample Matrix: Soil

Sample Location: Excavated material stockpile

Sample Purpose: Disposal

Number of Samples Taken: 2 Preservatives Used: ICE

Sample Method: 8015, 8020 + 1311 TCLP

Headspace Analysis: NT

Contaminated Action Level: 7100 PPM TPH + 750 PPM BTEX

SAMPLE INFORMATION

Sample ID No.: CA57/1-96-1202-0945

Sample Depth: 8'

Sample Matrix: Soil

Sample Location: Side of excavation

Sample Purpose: Field Screening / lab analysis correlation

Number of Samples Taken: 1

Preservatives Used: ICE

Sample Method: 8015 + 8020

Headspace Analysis: 0.0 ppm

Contaminated Action Level: >100 ppm TPH + >50 ppm BTEX

SAMPLE INFORMATION

Sample ID No.: CA57/5-96-1202-0949

Sample Depth: 8'

Sample Matrix: Soil

Sample Location: Center of excavation

Sample Purpose: Field Screening / lab analysis correlation

Number of Samples Taken: 1

Preservatives Used: ICE

Sample Method: 8015 TPH + 8020 BTEX

Headspace Analysis: 0.1 ppm VOC

Contaminated Action Level: >100 ppm TPH + >50 ppm BTEX

DATA SHEET
ENVIROGARD PETROLEUM FUELS (TPH) IN SOIL TEST KIT

	OD VALUE
Negative Control	1.01
20 ppm BTEX Calibrator	0.84
100 ppm BTEX Calibrator	0.61
600 ppm BTEX Calibrator	0.39

SAMPLE ID	OD VALUE	INTERPRETATION
CA57/1-96-1202-0945	0.91	< 20 ppm TPH
CA57/2-96-1202-0946	0.98	< 20 ppm TPH
CA57/3-96-1202-0947	0.87	< 20 ppm TPH
CA57/4-96-1202-0948	0.90	< 20 ppm TPH
CA57/5-96-1202-0949	0.89	< 20 ppm TPH
CA57/6-96-1202-0950	0.90	< 20 ppm TPH

DATA SHEET
ENVIROGARD PETROLEUM FUELS (BTEX) IN SOIL TEST KIT

	OD VALUE
Negative Control	0.55
10 ppm BTEX Calibrator	0.45
50 ppm BTEX Calibrator	0.26
300 ppm BTEX Calibrator	0.14

SAMPLE ID	OD VALUE	INTERPRETATION
CA57/1-96-1202-0945	0.45	10 PPM BTEX
CA57/2-96-1202-0946	0.55	ND
CA57/3-96-1202-0947	0.54	<10 PPM BTEX
CA57/4-96-1202-0948	0.51	<10 PPM BTEX
CA57/5-96-1202-0949	0.54	<10 PPM BTEX
CA57/6-96-1202-0950	0.60	ND

CHEYENNE
BUILDING CONTRACTORS INC.

P.O. BOX 418
CLOVIS, NEW MEXICO 88102-0418
(505) 769-9019 • FAX (505) 769-2588

GB98
LIC. NO. 30759

CERTIFICATE OF VAPOR TESTING

DATE 12-2-96

TANK OWNER 27th CE/CEUP PHONE 784-6022

ADDRESS Cannon AFB NM 88103 111 Engineers Way

CONTRACTOR REMOVING TANK Cheyenne

ADDRESS PO BOX 418 PHONE 769-9019

CHEYENNE BUILDERS IS CERTIFIED CONTRACTOR IN VAPOR TESTING.

I Troy Moralez HEREBY CERTIFY THAT ~~TANK~~ unit AT Bldg. 379 IS FREE FROM COMBUSTIBLE MATERIAL.

TROY MORALEZ

MIKE LANDGRAF

Company Cheyenne	Date 12-2-96
Site Location/Description Bldg 379 SWMU 57	Time 9:00 ☒ AM ☐ PM
Inspected by Troy Morales	Project Number DACA47-95-D-0035

TRUCTIONS: Read the ITEM NUMBER and DESCRIPTION to determine the current conditions of this excavation site. Mark an (X) in the YES column if escription is present and has been satisfied. Mark an (X) in the NO column if the item has not been completed. Mark a line (–) across the YES and No nns if the ITEM does not apply. Use the NOTES section to list the ITEM NUMBER. Write any comments that apply to the ITEM NUMBER.

Item	DESCRIPTION	YES	NO	Item No.	DESCRIPTION	YES	NO
1	The utility company has been notified of excavation work schedule.	✓		19	Employees working below other employees in trench are protected from hazards.	✓	
2	Location of underground utility lines are identified.	✓		20	The trench is free of standing water.	✓	
3	Hazardous objects have been removed from excavation area or blocked securely.	✓		21	The proper water removal equipment is operating under guidance of competent person.	✓	
4	Soil type is classified.	✓		22	Diversion ditches or dikes are in place to prevent surface water from entering trench.	✓	
5	Sloping and Benching system is designed per OSHA requirements.	✓		23	The trench is inspected by competent person following any amount of rain.	✓	
6	Timber shoring system is designed per OSHA requirements.	✓		24	Employees are wearing proper safety equipment.	✓	
7	Aluminum Hydraulic shoring system is designed per OSHA requirements.	✓		25	Test air quality in trench if a hazardous atmosphere is suspected.	✓	
8	Shielding system is designed per OSHA requirements.	✓		26	A ventilation or respiratory protection is in use.	✓	
9	Shields are free from damage or defects.	✓		27	Protective support systems are installed from the top down.	✓	
10	Employees are protected from cave-ins when entering and exiting the shield.	✓		28	Protective support systems are dismantled from the bottom up.	✓	
	When a combination of sloping and shielding is used, the shield must extend 18 inches above the bottom slope of the excavation.	✓		29	Excavation is backfilled as the protective system is dismantled.	✓	
12	A ladder is provided and secured in trench four or more feet deep; top of ladder extending at least 36 inches above edge of trench.	✓		30	Heavy equipment is mounted on wooden mats to distribute weight.	✓	
13	A ladder is within 25 feet of all employees working in trench	✓		31	Damaged materials or equipment are removed from service.	✓	
14	Excavated material is stored at least two feet from the edge of the excavation.	✓		32	An emergency response program is in place.	✓	
15	Employees are protected from loose material which could fall into trench.	✓		33	Life support equipment is in working order.	✓	
16	A competent person inspects the trench prior to the start of the shift.	✓		34	Note other conditions. CGI < 20% LEL Oxygen 21%		
17	The location of trench is marked by banners, barricades or other signals.	✓		35	0.0 PPM VOC		
18	Bridges or walkways over excavations are equipped with guardrails and toeboards.	✓		36			

Notes:

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CHEYENNE BUILDING CONTRACTORS, INC.
QUALITY CONTROL FIELD NOTES
UNIT REMOVAL AT CANNON AFB, NM
CONTRACT NO.: DACA47-95-D-0035

DATE: 12/5/96
TIME: 12-5-96
WEATHER: Breezy
TEMP.: 42°

UNIT INFORMATION

Unit Owner: U.S. Army Corp of Engineers Phone No.: 505-784-4351

Address: P.O. Box 1580 Albuquerque, NM 87103

Bldg. No.: 494 SWMU No.: 47B

Date Installed: 1982 Date Last Used: 12/1986

Units Association with Facility: OWS for Auto Hobby shop

Unit Width: 2' Unit Length: 3' Unit Depth: 4'

Unit Contents: waste oil/Cont H2O Gallons Removed: 79 gal. waste oil / 110 gal cont H2O

Type of Ground Cover: Asphalt

Petroleum Odors: YES ☐ NO ☒

Visual Characterization of Soil: Clean

Evidence of a Spill: YES ☐ NO ☒

Other Potential Sources of Contamination: leaking pipes

ANK CLOSURE WORKSHEET
(COMPLETE AFTER CLOSURE)

Tank Owner 27th CE/CEVP Phone 784 6022
Mailing Address 111 Engineers Way Cannon AFB 88103
Tank Address Bldg. 494. SCWMU 47 B
Contractor Name Cheyenne Bldg. Cont. LLC Phone 763-1410
Address 1712 S Prince St CLOVIS NM 88101
Contractor Name _____ Phone _____
Address _____

Tank Closure Date 12-4-96 # of Tanks Closed 1

I. Tank Closure Initial Procedures (check measures complied with):
- X Obtain recommended safety equipment for all personnel
- X Contact Fire Marshall or other fire officials
- X Bond or ground equipment
- X Drain product from piping and tank
- X Disconnect, then cap or remove piping
- X Remove all residual product from tank
- X Excavate to tank top
- X Remove all tank fixtures
- X Properly purge or inert tank of all flammable vapors using approved method
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- X Excavate tank using all safety precautions
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- X Check excavation for evidence of leaks and notify EID and other proper authorities if leak is found
- X Check vapor levels in tank before transporting
- X Dispose of tank in approved manner

Tank disposal location Landfill CLOVIS NM 88101
City State

How did you assess site for leakage? Field Screening / Lab analysis Correlation
Closure report kept at 111 Engineers Way Cannon AFB NM 88103
NOTE: Immediately report any evidence of leakage to EID at 827-0188

I hereby state that the above information is correct

[signature] CAC Cheyenne
Signature of ~~owner~~ or contractor performing work

FOR EID USE ONLY
Notification Received _____ Approved By _____
Inspection Date _____ Inspector _____

Notification for Underground Storage Tanks

UST BUREAU/EID
1190 St. Francis Drive
Santa Fe, NM 87503

I.D. Number

STATE USE ONLY

Date Received

GENERAL INFORMATION

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2. tanks used for storing heating oil for consumptive use on the premises where stored;
3. septic tanks;
4. pipeline facilities (including gathering lines) regulated under the Natural Gas Pipeline Safety Act of 1968, or the Hazardous Liquid Pipeline Safety Act of 1979, or which is an intrastate pipeline facility regulated under State laws;
5. surface impoundments, pits, ponds, or lagoons;
6. storm water or wastewater collection systems;
7. flow-through process tanks;
8. liquid traps or associated gathering lines directly related to oil or gas production and gathering operations;
9. storage tanks situated in an underground area (such as a basement, cellar, mine working, drift, shaft, or tunnel) if the storage tank is situated upon or above the surface of the floor.

What Substances Are Covered? The notification requirements apply to underground storage tanks that contain regulated substances. This includes any substance defined as hazardous in Section 101 (14) of the Comprehensive Environmental Response, Compensation and Liability Act of 1980 (CERCLA), with the exception of those substances regulated as hazardous waste under Subtitle C of RCRA. It also includes petroleum, e.g., crude oil or any fraction thereof which is liquid at standard conditions of temperature and pressure (60 degrees Fahrenheit and 14.7 pounds per square inch absolute).

Where To Notify? Completed notification forms should be sent to the address given at the top of this page.

When To Notify? 1. Owners of underground storage tanks in use or that have been taken out of operation after January 1, 1974, but still in the ground, must notify on May 8, 1986. 2. Owners who bring underground storage tanks into use after May 8, 1986, must notify within 30 days of bringing the tanks into use.

Penalties: Any owner who knowingly fails to notify or submits false information shall be subject to a civil penalty not to exceed $10,000 for each tank for which notification is not given or for which false information is submitted.

INSTRUCTIONS

Please type or print in ink all items except "signature" in Section V. This form must by completed for each location containing underground storage tanks. If more than 5 tanks are owned at this location, photocopy the reverse side, and staple continuation sheets to this form.

Indicate number of continuation sheets attached: [ ]

I. OWNERSHIP OF TANK(S)

Owner Name (Corporation, Individual, Public Agency, or Other Entity): 27th CE/CEVP

Street Address: 111 Engineers Way

County: Curry

City: Cannon AFB State: NM ZIP Code: 88103

Area Code: 505 Phone Number: 784-6022

Type of Owner (Mark all that apply [X]):

- [ ] Current
- [ ] Former
- [ ] State or Local Govt
- [X] Federal Govt (GSA facility I.D. no. _____)
- [ ] Private or Corporate
- [ ] Ownership uncertain

II. LOCATION OF TANK(S)

(If same as Section I, mark box here [ ])

Facility Name or Company Site Identifier, as applicable: Bldg. 494 SWMU 47B

Street Address or State Road, as applicable:

County: Curry

City (nearest): Cannon AFB State: NM ZIP Code: 88103

Indicate number of tanks at this location: 1

Mark box here if tank(s) are located on land within an Indian reservation or on other Indian trust lands: [ ]

III. CONTACT PERSON AT TANK LOCATION

Name (If same as Section I, mark box here [ ]): [signature]

Job Title: CQC Cheyenne

Area Code: 505 Phone Number: 769-9216

IV. TYPE OF NOTIFICATION

[ ] Mark box here only if this is an amended or subsequent notification for this location.

V. CERTIFICATION (Read and sign after completing Section VI.)

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete.

Name and official title of owner or owner's authorized representative	Signature	Date Signed

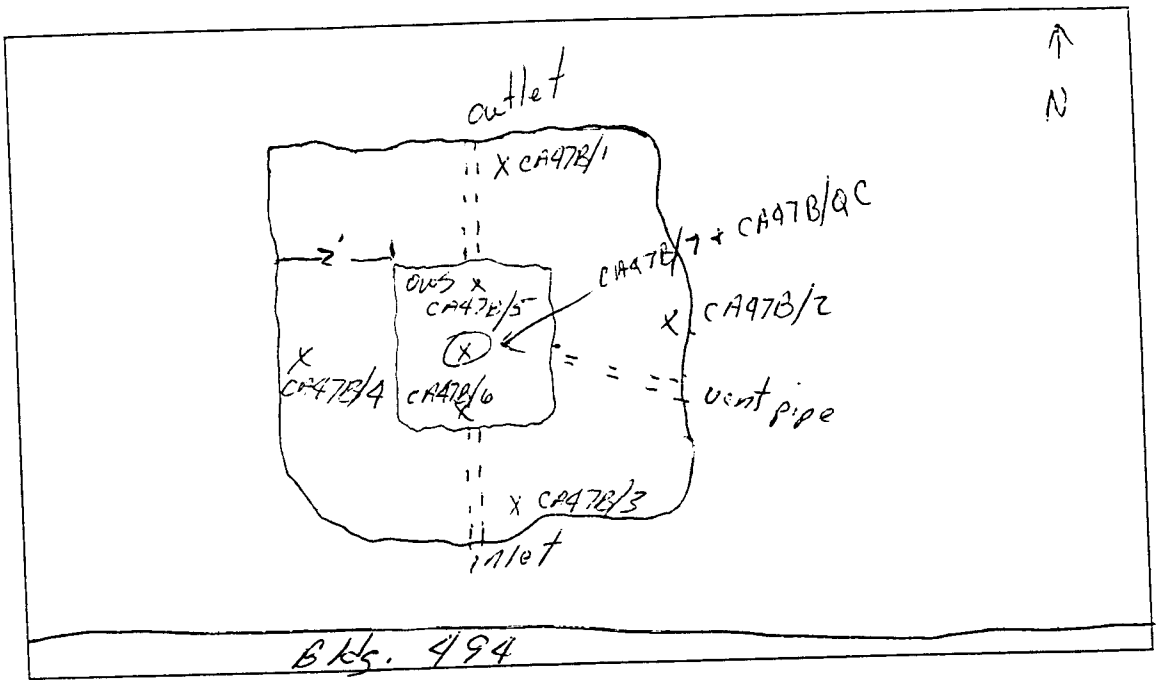
CONTINUE ON REVERSE SIDE

Owner Name (from Section I) _____ Location (from Section II) _____ Page No. ____ of ____ Pages

[redacted]

Tank Identification No. (e.g., ABC-123), or Arbitrarily Assigned Sequential Number (e.g., 1 2 3 ...)	Tank No.	Tank No.	Tank No.	Tank No.	Tank No.
Status of Tank (Mark all that apply ☒) Currently in Use	☐	☐	☐	☐	☐
Temporarily Out of Use	☐	☐	☐	☐	☐
Permanently Out of Use	☒	☐	☐	☐	☐
Brought into Use after 5/8/85	☐	☐	☐	☐	☐
2. Estimated Age (Years)					
3. Estimated Total Capacity (Gallons)	14				
4. Material of Construction (Mark one ☒) Steel	60 ☒	☐	☐	☐	☐
Concrete	☐	☐	☐	☐	☐
Fiberglass Reinforced Plastic	☐	☐	☐	☐	☐
Unknown	☐	☐	☐	☐	☐
Other, Please Specify					
5. Internal Protection (Mark all that apply ☒) Cathodic Protection	☐	☐	☐	☐	☐
Interior Lining (e.g., epoxy resins)	☐	☐	☐	☐	☐
None	☒	☐	☐	☐	☐
Unknown	☐	☐	☐	☐	☐
Other, Please Specify					
6. External Protection (Mark all that apply ☒) Cathodic Protection	☐	☐	☐	☐	☐
Painted (e.g., asphaltic)	☐	☐	☐	☐	☐
Fiberglass Reinforced Plastic Coated	☐	☐	☐	☐	☐
None	☒	☐	☐	☐	☐
Unknown	☐	☐	☐	☐	☐
Other, Please Specify					
7. Piping (Mark all that apply ☒) Bare Steel	☐	☐	☐	☐	☐
Galvanized Steel	☐	☐	☐	☐	☐
Fiberglass Reinforced Plastic	☐	☐	☐	☐	☐
Cathodically Protected	☐	☐	☐	☐	☐
Unknown	☐	☐	☐	☐	☐
Other, Please Specify	Cast iron				
8. Substance Currently or Last Stored in Greatest Quantity by Volume (Mark all that apply ☒) a. Empty	☐	☐	☐	☐	☐
b. Petroleum					
Diesel	☐	☐	☐	☐	☐
Kerosene	☐	☐	☐	☐	☐
Gasoline (including alcohol blends)	☐	☐	☐	☐	☐
Used Oil	☒	☐	☐	☐	☐
Other, Please Specify	H2O/Sludge				
c. Hazardous Substance	☐	☐	☐	☐	☐
Please Indicate Name of Principal CERCLA Substance OR Chemical Abstract Service (CAS) No.					
Mark box ☒ if tank stores a mixture of substances	☐	☐	☐	☐	☐
d. Unknown	☐	☐	☐	☐	☐
9. Additional Information (for tanks permanently taken out of service) a. Estimated date last used (mo/yr)	12/96	/	/	/	/
b. Estimated quantity of substance remaining (gal.)	0				
c. Mark box ☒ if tank was filled with inert material (e.g., sand, concrete)	☐	☐	☐	☐	☐

SKETCH: SWMU 47B



CA47B/1 thru CA47B/6 : Field Screening samples

CA47B/7 : site Confirmatory sample

CA47B/8 : excavated material confirmatory sample

CA47B/QC : Quality Control sample

CA47B/1 + CA47B/5 : Correlation samples

SAMPLE INFORMATION

Sample ID No.: CA47B/1-96-1205-0900, CA47B/2-96-1205-0901, CA47B/3-96-1205-0902
CA47B/4-96-1205-0903

Sample Depth: 6' Sample Matrix: Soil

Sample Location: sides of excavation

Sample Purpose: Field Screening

Number of Samples Taken: 4 Preservatives Used: ICE

Sample Method: Immunoassay TPH+BTEX, Headspace

Headspace Analysis: 0.0 PPM VOC's

Contaminated Action Level: >100 PPM TPH + >50 PPM BTEX

SAMPLE INFORMATION

Sample ID No.: CA47B/5-96-1205-0904 + CA47B/6-96-1205-0905

Sample Depth: 6' Sample Matrix: Soil

Sample Location: Center of excavation

Sample Purpose: Field Screening

Number of Samples Taken: 2 Preservatives Used: ICE

Sample Method: Immunoassay TPH+BTEX, Headspace

Headspace Analysis: 0.0 PPM VOC

Contaminated Action Level: >100 PPM TPH + >50 PPM BTEX

SAMPLE INFORMATION

Sample ID No.: CA47B/7-96-1205-0906 + CA47B/QC-96-1205-0906

Sample Depth: 6' Sample Matrix: Soil

Sample Location: Center of excavation

Sample Purpose: CA47B/7 = site confirmatory sample

CA47B/QC = Quality Control Sample

Number of Samples Taken: 3 Preservatives Used: ICE

Sample Method: 6010 + 7470 using 1311 Extraction, 8015, 8260, 8270,

Headspace Analysis: NT

Contaminated Action Level:

SAMPLE INFORMATION

Sample ID No.: CA47B/8-96-1205-0907

Sample Depth: composite Sample Matrix: Soil

Sample Location: excavated material stockpile

Sample Purpose: disposal

Number of Samples Taken: 2 Preservatives Used: ICE

Sample Method: 8015 MOD + 8020 + 1311 TCLP

Headspace Analysis: NT

Contaminated Action Level: >100 PPM TPH + >50 PPM BTEX

SAMPLE INFORMATION

Sample ID No.: CA47B/1-96-1205-0900

Sample Depth: 6' Sample Matrix: Soil

Sample Location: excavation side

Sample Purpose: Field Screening /Lab analysis correlation

Number of Samples Taken: 1 Preservatives Used: ICE

Sample Method: TPH 8015 mod + BTEX 8020

Headspace Analysis: NT

Contaminated Action Level: >100 PPM TPH + >50 PPM BTEX

SAMPLE INFORMATION

Sample ID No.: CA47B/5-96-1205-0904

Sample Depth: 6' Sample Matrix: Soil

Sample Location: center of excavation

Sample Purpose: Field Screening /Lab analysis Correlation

Number of Samples Taken: 1 Preservatives Used: ICE

Sample Method: 8015 + 8020

Headspace Analysis: NT

Contaminated Action Level: >100 PPM TPH + >50 PPM BTEX

DATA SHEET
ENVIROGARD PETROLEUM FUELS (BTEX) IN SOIL TEST KIT

	OD VALUE
Negative Control	0.85
10 ppm BTEX Calibrator	0.59
50 ppm BTEX Calibrator	0.38
300 ppm BTEX Calibrator	0.12

SAMPLE ID	OD VALUE	INTERPRETATION
CA47B/1-96-1205-0900	0.71	< 10 PPM BTEX
CA47B/2-96-1205-0901	0.72	< 10 PPM BTEX
CA47B/3-96-1205-0902	0.77	< 10 PPM BTEX
CA47B/4-96-1205-0903	0.78	< 10 PPM BTEX
CA47B/5-96-1205-0904	0.79	< 10 PPM BTEX
CA47B/6-96-1205-0905	0.78	< 10 PPM BTEX

DATA SHEET
ENVIROGARD PETROLEUM FUELS (TPH) IN SOIL TEST KIT

	OD VALUE
Negative Control	0.80
20 ppm BTEX Calibrator	0.57
100 ppm BTEX Calibrator	0.32
600 ppm BTEX Calibrator	0.14

SAMPLE ID	OD VALUE	INTERPRETATION
CA47B/1-96-1205-0900	0.74	<20 ppm TPH
CA47B/2-96-1205-0901	0.77	<20 ppm TPH
CA47B/3-96-1205-0902	0.76	<20 ppm TPH
CA47B/4-96-1205-0903	0.79	<20 ppm TPH
CA47B/5-96-1205-0904	0.75	<20 ppm TPH
CA47B/6-96-1205-0905	0.78	<20 ppm TPH

CHEYENNE
BUILDING CONTRACTORS INC.
P.O. BOX 418
CLOVIS, NEW MEXICO 88102-0418
(505) 769-9019 • FAX (505) 769-2588

GB98
LIC. NO. 30759

CERTIFICATE OF VAPOR TESTING

DATE 12-3-96

TANK OWNER 27th CE/CEUP PHONE 784-6022

ADDRESS 111 Engineers Way Cannon AFB NM 88103

CONTRACTOR REMOVING TANK Cheyenne

ADDRESS _____ PHONE _____

CHEYENNE BUILDERS IS CERTIFIED CONTRACTOR IN VAPOR TESTING.

I Troy Moralez HEREBY CERTIFY THAT ~~TANK~~ swmu 47B AT Bldg. 994 IS FREE FROM COMBUSTIBLE MATERIAL.

TROY MORALEZ

MIKE LANDGRAF

EXCAVATION CHECK LIST

Company: Cheyenne

Site Location/Description: SWMU 47B Bldg. 494

Date: 12/5/96

Inspected by: Troy Mavrez

Time: 1:00 ☐ AM ☒ PM

Project Number: DACW 47 95-D-0035

INSTRUCTIONS: Read the ITEM NUMBER and DESCRIPTION to determine the current conditions of this excavation site. Mark an (X) in the YES column if the description is present and has been satisfied. Mark an (X) in the NO column if the item has not been completed. Mark a line (–) across the YES and NO columns if the ITEM does not apply. Use the NOTES section to list the ITEM NUMBER. Write any comments that apply to the ITEM NUMBER.

ITEM	DESCRIPTION	YES	NO	ITEM	DESCRIPTION	YES	NO
1	The utility company has been notified of excavation work schedule.	X		19	Employees working below other employees in trench are protected from hazards.	✓	
2	Location of underground utility lines are identified.	X		20	The trench is free of standing water.	✓	
3	Hazardous objects have been removed from excavation area or blocked securely.	X		21	The proper water removal equipment is operating under guidance of competent person.	✓	
4	Soil type is classified.	X		22	Diversion ditches or dikes are in place to prevent surface water from entering trench.	✓	
5	Sloping and Benching system is designed per OSHA requirements.	X		23	The trench is inspected by competent person following any amount of rain.	✓	
6	Timber shoring system is designed per OSHA requirements.	X		24	Employees are wearing proper safety equipment.	✓	
7	Aluminum Hydraulic shoring system is designed per OSHA requirements.	X		25	Test air quality in trench if a hazardous atmosphere is suspected.	✓	
8	Shielding system is designed per OSHA requirements.	X		26	A ventilation or respiratory protection is in use.	✓	
9	Shields are free from damage or defects.	X		27	Protective support systems are installed from the top down.	✓	
10	Employees are protected from cave-ins when entering and exiting the shield.	X		28	Protective support systems are dismantled from the bottom up.	✓	
11	When a combination of sloping and shielding is used, the shield must extend 18 inches above the bottom slope of the excavation.	X		29	Excavation is backfilled as the protective system is dismantled.	✓	
12	A ladder is provided and secured in trench four or more feet deep; top of ladder extending at least 36 inches above edge of trench.	X		30	Heavy equipment is mounted on wooden mats to distribute weight.	✓	
13	A ladder is within 25 feet of all employees working in trench	X		31	Damaged materials or equipment are removed from service.	✓	
14	Excavated material is stored at least two feet from the edge of the excavation.	X		32	An emergency response program is in place.	✓	
15	Employees are protected from loose material which could fall into trench.	X		33	Life support equipment is in working order.	✓	
16	A competent person inspects the trench prior to the start of the shift.	X		34	Note other conditions. Oxygen 21%		
17	The location of trench is marked by banners, barricades or other signals.	X		35	CGI - <2% LEL		
18	Bridges or walkways over excavations are equipped with guardrails and toeboards.	X		36	PID - 0.0PPM VOC		

Notes:

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To Reorder Call 1-800-327-6868

CHEYENNE BUILDING CONTRACTORS, INC.
QUALITY CONTROL FIELD NOTES
UNIT REMOVAL AT CANNON AFB, NM
CONTRACT NO.: DACA47-95-D-0035

DATE: 12/23/96
TIME: 9:00
WEATHER: mild
TEMP.: 45°

UNIT INFORMATION

Unit Owner: U.S. Army Corp of Engineers Phone No.: 505-784-4351

Address: P.O. Box 1580 Albuquerque, NM 87103

Bldg. No.: 165 SWMU No.: 8

Date Installed: Date Last Used:

Units Association with Facility: Solid waste management unit for aircraft washrack.

Unit Width: 12' Unit Length: 21' Unit Depth: 10'

Unit Contents: H_2O + sludge Gallons Removed: H_2O 6,608.23 gal. sludge 495 gal.

Type of Ground Cover: grass

Petroleum Odors: YES ☐ NO ☒

Visual Characterization of Soil: clean

Evidence of a Spill: YES ☐ NO ☒

Other Potential Sources of Contamination: leaking pipes

ANK CLOSURE WORKSHEET
(COMPLETE AFTER CLOSURE)

Tank Owner 27th CE/CEVP Phone 784-6022
Mailing Address 111 Engineers Way Cannon AFB NM 88103
Tank Address Bldg. 165 SWMU 8
Contractor Name _____ Phone _____
Address _____
Contractor Name Cheyenne Phone 769-9019
Address P.O. BOX 418 CLOVIS NM 88101

Tank Closure Date 12/31/96 # of Tanks Closed 1

I. Tank Closure Initial Procedures (check measures complied with):
- X Obtain recommended safety equipment for all personnel
- X Contact Fire Marshall or other fire officials
- X Bond or ground equipment
- X Drain product from piping and tank
- X Disconnect, then cap or remove piping
- X Remove all residual product from tank
- X Excavate to tank top
- X Remove all tank fixtures
- X Properly purge or inert tank of all flammable vapors using approved method
- X Continually monitor for explosive vapors while tank is being removed

II. Tank Removal
- X Create vent hole
- X Excavate tank using all safety precautions
- X Clean and inspect tank
- X Check excavation for evidence of leaks and notify EID and other proper authorities if leak is found
- X Check vapor levels in tank before transporting
- X Dispose of tank in approved manner

Tank disposal location Landfill CLOVIS NM 88101
City State

How did you assess site for leakage? Field Screening / lab analysis correlation
Closure report kept at 111 Engineers Way Cannon AFB NM 88103
NOTE: Immediately report any evidence of leakage to EID at 827-0188

I hereby state that the above information is correct

[signature] CAC Cheyenne Bldg. Cont. INC.
Signature of owner or contractor performing work

FOR EID USE ONLY
Notification Received _____ Approved By _____
Inspection Date _____ Inspector _____

Notification for Underground Storage Tanks

UST BUREAU/EID
1190 St. Francis Drive
Santa Fe, NM 87503

I.D. Number

STATE USE ONLY

Date Received

GENERAL INFORMATION

Notification is required by Federal law for all underground tanks that have been used to store regulated substances since January 1, 1974, that are in the ground as of May 8, 1986, or that are brought into use after May 8, 1986. The information requested is required by Section 9002 of the Resource Conservation and Recovery Act (RCRA), as amended.

The primary purpose of this notification program is to locate and evaluate underground tanks that store or have stored petroleum or hazardous substances. It is expected that the information you provide will be based on reasonably available records or, in the absence of such records, your knowledge, belief, or recollection.

Who Must Notify? Section 9002 of RCRA, as amended, requires that, unless exempted, owners of underground tanks that store regulated substances must notify designated State or local agencies of the existence of their tanks. Owner means—

(a) in the case of an underground storage tank in use on November 8, 1984, or brought into use after that date, any person who owns an underground storage tank used for the storage, use, or dispensing of regulated substances; and

(b) in the case of any underground storage tank in use before November 8, 1984, but no longer in use on that date, any person who owned such tank immediately before the discontinuation of its use.

What Tanks Are Included? Underground storage tank is defined as any one or combination of tanks that (1) is used to contain an accumulation of "regulated substances," and (2) whose volume (including connected underground piping) is 10% or more beneath the ground. Some examples are underground tanks storing 1. gasoline, used oil, or diesel fuel, and 2. industrial solvents, pesticides, herbicides or fumigants.

What Tanks Are Excluded? Tanks removed from the ground are not subject to notification. Other tanks excluded from notification are:

1. farm or residential tanks of 1,100 gallons or less capacity used for storing motor fuel for noncommercial purposes;
2. tanks used for storing heating oil for consumptive use on the premises where stored;
3. septic tanks;
4. pipeline facilities (including gathering lines) regulated under the Natural Gas Pipeline Safety Act of 1968, or the Hazardous Liquid Pipeline Safety Act of 1979, or which is an intrastate pipeline facility regulated under State laws;
5. surface impoundments, pits, ponds, or lagoons;
6. storm water or wastewater collection systems;
7. flow-through process tanks;
8. liquid traps or associated gathering lines directly related to oil or gas production and gathering operations;
9. storage tanks situated in an underground area (such as a basement, cellar, mineworking, drift, shaft, or tunnel) if the storage tank is situated upon or above the surface of the floor.

What Substances Are Covered? The notification requirements apply to underground storage tanks that contain regulated substances. This includes any substance defined as hazardous in Section 101 (14) of the Comprehensive Environmental Response, Compensation and Liability Act of 1980 (CERCLA), with the exception of those substances regulated as hazardous waste under Subtitle C of RCRA. It also includes petroleum, e.g., crude oil or any fraction thereof which is liquid at standard conditions of temperature and pressure (60 degrees Fahrenheit and 14.7 pounds per square inch absolute).

Where To Notify? Completed notification forms should be sent to the address given at the top of this page.

When To Notify? 1. Owners of underground storage tanks in use or that have been taken out of operation after January 1, 1974, but still in the ground, must notify as May 8, 1986. 2. Owners who bring underground storage tanks into use after May 8, 1986, must notify within 30 days of bringing the tanks into use.

Penalties: Any owner who knowingly fails to notify or submits false information shall be subject to a civil penalty not to exceed $10,000 for each tank for which notification is not given or for which false information is submitted.

INSTRUCTIONS

Please type or print in ink all items except "signature" in Section V. This form must be completed for each location containing underground storage tanks. If more than 5 tanks are owned at this location, photocopy the reverse side, and staple continuation sheets to this form.

Indicate number of continuation sheets attached: [ ]

I. OWNERSHIP OF TANK(S)

Owner Name (Corporation, Individual, Public Agency, or Other Entity): 27th CE/CEVP

Street Address: 111 Engineers Way

County: Curry

City: Cannon AFB State: NM ZIP Code: 88103

Area Code: 505 Phone Number: 784-6022

Type of Owner (Mark all that apply ☑)

- [ ] Current
- [ ] Former
- [ ] State or Local Govt
- [x] Federal Govt (GSA facility I.D. no. _____)
- [ ] Private or Corporate
- [ ] Ownership uncertain

II. LOCATION OF TANK(S)

(If same as Section I, mark box here [ ])

Facility Name or Company Site Identifier, as applicable: Bldg. 165 SWMU 8

Street Address or State Road, as applicable:

County:

City (nearest): State: ZIP Code:

Indicate number of tanks at this location: 7

Mark box here if tank(s) are located on land within an Indian reservation or on other Indian trust lands: [ ]

III. CONTACT PERSON AT TANK LOCATION

Name (If same as Section I, mark box here [ ]): [illegible]

Job Title: LCol Cheyenne

Area Code: 505 Phone Number: 769-9216

IV. TYPE OF NOTIFICATION

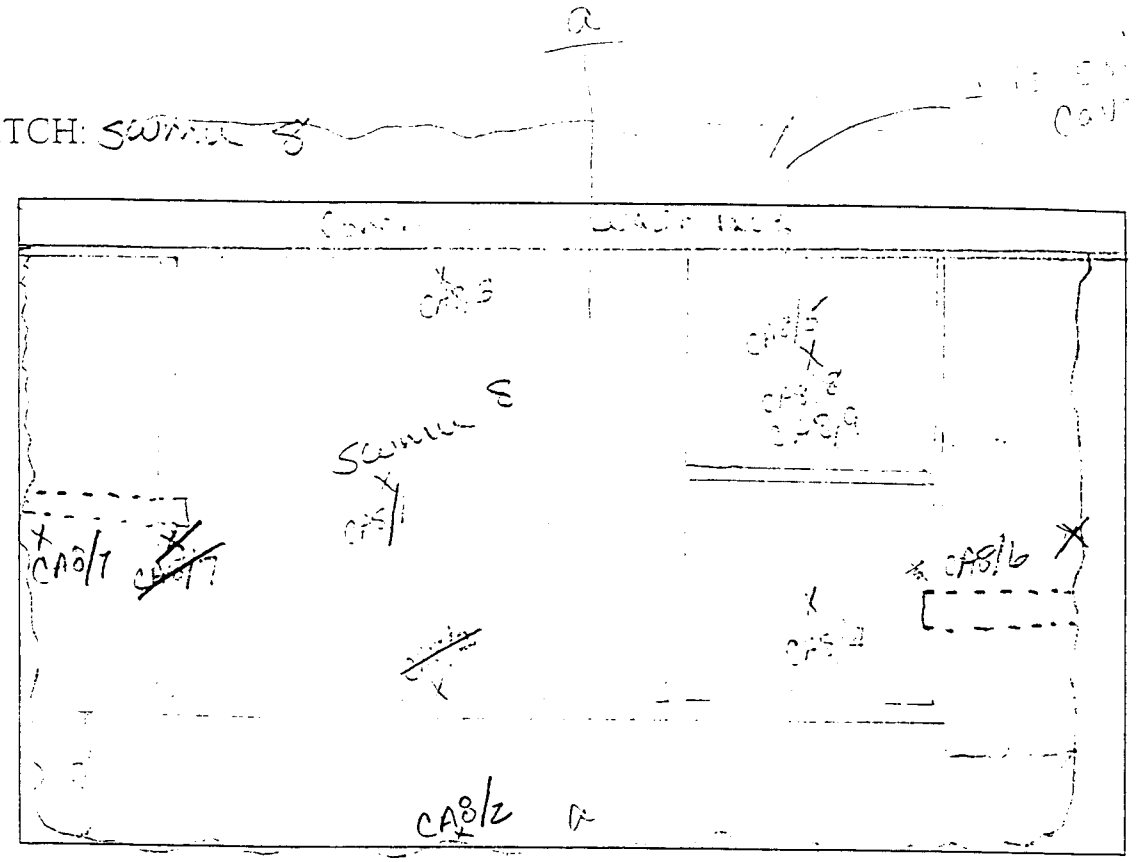
[ ] Mark box here only if this is an amended or subsequent notification for this location.

V. CERTIFICATION (Read and sign after completing Section VI.)

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete.

Name and official title of owner or owner's authorized representative	Signature	Date Signed

SKETCH: SWMU 8



CA8/1 thru CA8/7, Field Screening Samples

CA8/8; site Confirmatory

CA8/9; Quality Control sample

CA8/1 + CA8/6; Field Screening/Lab analysis Correlation.

Section a-a

SAMPLE INFORMATION

Sample ID No.: CA8/1, CA8/4, CA8/5

Sample Depth: 12' Sample Matrix: Soil

Sample Location: Bottom of Excavation 2' below OWS

Sample Purpose: Field Screening

Number of Samples Taken: 3 Preservatives Used: ICE

Sample Method: Immnoassay TPH+BTEX, Headspace

Headspace Analysis: 0.0 PPM VOC

Contaminated Action Level: >100 PPM TPH + 750 PPM BTEX

SAMPLE INFORMATION

Sample ID No.: CA8/2 + CA8/3

Sample Depth: 12' Sample Matrix: Soil

Sample Location: Bottom sides of excavation

Sample Purpose: Field Screening

Number of Samples Taken: 2 Preservatives Used: ICE

Sample Method: Immnoassay TPH+BTEX, Headspace

Headspace Analysis: 0.0 PPM VOC

Contaminated Action Level: >100 PPM TPH + 750 PPM BTEX

SAMPLE INFORMATION

Sample ID No.: CA8/6 & CA8/7

Sample Depth: 7' Sample Matrix: Soil

Sample Location: 2' below inlet and outlet pipes

Sample Purpose: Field Screening

Number of Samples Taken: 2 Preservatives Used: ICE

Sample Method: Immunoassay TPH & BTEX, Headspace

Headspace Analysis: 0.0 PPM VOC's

Contaminated Action Level:

SAMPLE INFORMATION

Sample ID No.: CA8/8 & CA8/9

Sample Depth: 12' Sample Matrix: Soil

Sample Location: 2' below OWS (in oil compartment)

Sample Purpose: Confirmatory (site)

Number of Samples Taken: 8 Preservatives Used: ICE

Sample Method: 6010 + 7470 using 1311, 8015, 8260, 8270

Headspace Analysis: NT

Contaminated Action Level:

SAMPLE INFORMATION

Sample ID No.: CA811-97-0129-1000

Sample Depth: 12' Sample Matrix: Soil

Sample Location: bottom of excavation 2' below OWS

Sample Purpose: Field Screening / lab analysis correlation

Number of Samples Taken: 1 Preservatives Used: ICE

Sample Method: TPH 8015 MOD + BTEX 8020

Headspace Analysis: 0.0 PPM VOC

Contaminated Action Level: >100 PPM TPH + >50 PPM BTEX

SAMPLE INFORMATION

Sample ID No.: CA811-97-0129-1005

Sample Depth: 7' Sample Matrix: Soil

Sample Location: 2 holes outlet pipe

Sample Purpose: Field Screening / Lab analysis Correlation

Number of Samples Taken: 1 Preservatives Used: ICE

Sample Method: 8015 MOD TPH, 8020 BTEX

Headspace Analysis: 0.0 PPM VOC's

Contaminated Action Level: >100 PPM TPH + >50 PPM BTEX

SAMPLE INFORMATION

Sample ID No.: _____

Sample Depth: _____ Sample Matrix: ___Soil

Sample Location: _____

Sample Purpose: _____

_____

Number of Samples Taken: _____ Preservatives Used: _____

Sample Method: _____

Headspace Analysis: _____

Contaminated Action Level: _____

SAMPLE INFORMATION

Sample ID No.: _____

Sample Depth: _____ Sample Matrix: ___Soil

Sample Location: _____

Sample Purpose: _____

_____

Number of Samples Taken: _____ Preservatives Used: _____

Sample Method: _____

Headspace Analysis: _____

Contaminated Action Level: _____

DATA SHEET
ENVIROGARD PETROLEUM FUELS (TPH) IN SOIL TEST KIT

	OD VALUE
Negative Control	0.73
20 ppm BTEX Calibrator	0.51
100 ppm BTEX Calibrator	0.31
600 ppm BTEX Calibrator	0.16

SAMPLE ID	OD VALUE	INTERPRETATION
CA8/1-97-0129-1000	0.72	<20 PPM TPH
CA8/2-97-0129-1001	0.73	ND
CA8/3-97-0129-1002	0.73	ND
CA8/4-97-0129-1003	0.70	<20 PPM TPH
CA8/5-97-0129-1004	0.68	<20 PPM TPH
CA8/6-97-0129-1005	0.71	<20 PPM TPH
CA8/7-97-0129-1006	0.64	<20 PPM TPH

DATA SHEET
ENVIROGARD PETROLEUM FUELS (BTEX) IN SOIL TEST KIT

	OD VALUE
Negative Control	0.74
10 ppm BTEX Calibrator	0.59
50 ppm BTEX Calibrator	0.35
300 ppm BTEX Calibrator	0.20

SAMPLE ID	OD VALUE	INTERPRETATION
CA8/1-97-0129-1000	0.68	< 10 PPM BTEX
CA8/2-97-0129-1001	0.62	< 10 PPM BTEX
CA8/3-97-0129-1002	0.70	< 10 PPM BTEX
CA8/4-97-0129-1003	0.72	< 10 PPM BTEX
CA8/5-97-0129-1004	0.75	ND
CA8/6-97-0129-1005	0.77	ND
CA8/7-97-0129-1006	0.66	< 10 PPM BTEX

CHEYENNE
BUILDING CONTRACTORS INC.
P.O. BOX 418
CLOVIS, NEW MEXICO 88102-0418
(505) 769-9019 • FAX (505) 769-2588

GB98
LIC. NO. 30759

CERTIFICATE OF VAPOR TESTING

DATE 12/31/96

TANK OWNER 27th CE/CEVP PHONE 784-6022

ADDRESS 111 Engineers Way Cannon AFB NM 88103

CONTRACTOR REMOVING TANK Cheyenne

ADDRESS P.O. BOX 418 CLOVIS NM 88101 PHONE 769-9019

CHEYENNE BUILDERS IS CERTIFIED CONTRACTOR IN VAPOR TESTING.

I Troy Moralez HEREBY CERTIFY THAT ~~TANK~~ SWMU 8 AT Bldg. 165 IS FREE FROM COMBUSTIBLE MATERIAL.

TROY MORALEZ

MIKE LANDGRAF

EXCAVATION CHECK LIST

Company: Cheyenne	Date: 12/31/96
Site Location/Description: Swamp at bldg. 1165	Time: 11 : 45 AM ~~PM~~
Inspected by: Troy Morales	Project Number: DACA47-95-D-0135

INSTRUCTIONS: Read the ITEM NUMBER and DESCRIPTION to determine the current conditions of this excavation site. Mark an (X) in the YES column if the description is present and has been satisfied. Mark an (X) in the NO column if the item has not been completed. Mark a line (–) across the YES and NO columns if the ITEM does not apply. Use the NOTES section to list the ITEM NUMBER. Write any comments that apply to the ITEM NUMBER.

ITEM	DESCRIPTION	YES	NO	ITEM	DESCRIPTION	YES	NO
1	The utility company has been notified of excavation work schedule.	X		19	Employees working below other employees in trench are protected from hazards.	X	
2	Location of underground utility lines are identified.	X		20	The trench is free of standing water.	X	
3	Hazardous objects have been removed from excavation area or blocked securely.	X		21	The proper water removal equipment is operating under guidance of competent person.	X	
4	Soil type is classified.	X		22	Diversion ditches or dikes are in place to prevent surface water from entering trench.	X	
5	Sloping and Benching system is designed per OSHA requirements.	X		23	The trench is inspected by competent person following any amount of rain.	X	
6	Timber shoring system is designed per OSHA requirements.	X		24	Employees are wearing proper safety equipment.	X	
7	Aluminum Hydraulic shoring system is designed per OSHA requirements.	X		25	Test air quality in trench if a hazardous atmosphere is suspected.	X	
8	Shielding system is designed per OSHA requirements.	X		26	A ventilation or respiratory protection is in use.	X	
9	Shields are free from damage or defects.	X		27	Protective support systems are installed from the top down.	X	
10	Employees are protected from cave-ins when entering and exiting the shield.	X		28	Protective support systems are dismantled from the bottom up.	X	
11	When a combination of sloping and shielding is used, the shield must extend 18 inches above the bottom slope of the excavation.	X		29	Excavation is backfilled as the protective system is dismantled.	X	
12	A ladder is provided and secured in trench four or more feet deep; top of ladder extending at least 36 inches above edge of trench.	X		30	Heavy equipment is mounted on wooden mats to distribute weight.	X	
13	A ladder is within 25 feet of all employees working in trench	X		31	Damaged materials or equipment are removed from service.	X	
14	Excavated material is stored at least two feet from the edge of the excavation.	X		32	An emergency response program is in place.	X	
15	Employees are protected from loose material which could fall into trench.	X		33	Life support equipment is in working order.	X	
16	A competent person inspects the trench prior to the start of the shift.	X		34	Note other conditions. Breathing Zone 0.0 ppm VOC		
17	The location of trench is marked by banners, barricades or other signals.	X		35	OXY 21%		
18	Bridges or walkways over excavations are equipped with guardrails and toeboards.	X		36	CGI < 2% LEL		

Notes:

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CHEYENNE BUILDING CONTRACTORS, INC.
QUALITY CONTROL FIELD NOTES
UNIT REMOVAL AT CANNON AFB, NM
CONTRACT NO.: DACA47-95-D-0035

DATE: 12/23/96
TIME: 8:00
WEATHER: mild
TEMP.: 48°

UNIT INFORMATION

Unit Owner: U.S. Army Corp of Engineers Phone No.: 505-784-4351

Address: P.O. Box 1580 Albuquerque, NM 87103

Bldg. No.: 165 SWMU No.: 9

Date Installed: _____ Date Last Used: _____

Units Association with Facility: sand trap for aircraft wash rack

Unit Width: 4' Unit Length: 5' Unit Depth: 5'

Unit Contents: sludge Gallons Removed: _____

Type of Ground Cover: 10" Concrete

Petroleum Odors: YES ☒ NO ☐

Visual Characterization of Soil: varies

Evidence of a Spill: YES ☒ NO ☐

Other Potential Sources of Contamination: leaking pipes

NK CLOSURE WORKSHEET
(COMPLETE AFTER CLOSURE)

Tank Owner 27th CE/CEVP Phone 784-6022
Mailing Address 111 Engineers Way Cannon AFB 88103
Tank Address Bldg. 165 Swma 9
Contractor Name _____ Phone _____
Address _____
Contractor Name Cheyenne Phone 769-9019
Address P.O Box 418 Clovis NM 88101

Tank Closure Date 12/23/96 # of Tanks Closed 1

I. Tank Closure Initial Procedures (check measures complied with):
- X Obtain recommended safety equipment for all personnel
- X Contact Fire Marshall or other fire officials
- X Bond or ground equipment
- X Drain product from piping and tank
- X Disconnect, then cap or remove piping
- X Remove all residual product from tank
- X Excavate to tank top
- X Remove all tank fixtures
- X Properly purge or inert tank of all flammable vapors using approved method
- X Continually monitor for explosive vapors while tank is being removed

II. Tank Removal
- X Create vent hole
- X Excavate tank using all safety precautions
- X Clean and inspect tank
- X Check excavation for evidence of leaks and notify EID and other proper authorities if leak is found
- X Check vapor levels in tank before transporting
- X Dispose of tank in approved manner

Tank disposal location Landfill Clovis NM 88101
City State

How did you assess site for leakage? Field Screening / Lab analysis correlation
Closure report kept at 111 Engineers Way Cannon AFB NM 88103
NOTE: Immediately report any evidence of leakage to EID at 827-0188

I hereby state that the above information is correct

CQC Cheyenne Bldg. Cont. INC.
Signature of owner or contractor performing work

FOR EID USE ONLY
Notification Received _____ Approved By _____
Inspection Date _____ Inspector _____

Notification for Underground Storage Tanks

UST BUREAU/EHD
1190 St. Francis Drive
Santa Fe, NM 87503

I.D. Number | STATE USE ONLY

Date Received

GENERAL INFORMATION

Notification is required by Federal law for all underground tanks that have been used to store regulated substances since January 1, 1974, that are in the ground as of May 8, 1986, or that are brought into use after May 8, 1986. The information requested is required by Section 9002 of the Resource Conservation and Recovery Act (RCRA), as amended.

The primary purpose of this notification program is to locate and evaluate underground tanks that store or have stored petroleum or hazardous substances. It is expected that the information you provide will be based on reasonably available records, or, in the absence of such records, your knowledge, belief, or recollection.

Who Must Notify? Section 9002 of RCRA, as amended, requires that, unless exempted, owners of underground tanks that store regulated substances must notify designated State or local agencies of the existence of their tanks. Owner means—

(a) in the case of an underground storage tank in use on November 8, 1984, or brought into use after that date, any person who owns an underground storage tank used for the storage, use, or dispensing of regulated substances; and

(b) in the case of any underground storage tank in use before November 8, 1984, but no longer in use on that date, any person who owned such tank immediately before the discontinuation of its use.

What Tanks Are Included? Underground storage tank is defined as any one or combination of tanks that (1) is used to contain an accumulation of "regulated substances," and (2) whose volume (including connected underground piping) is 10% or more beneath the ground. Some examples are underground tanks storing 1. gasoline, used oil, or diesel fuel, and 2. industrial solvents, pesticides, herbicides or fumigants.

What Tanks Are Excluded? Tanks removed from the ground are not subject to notification. Other tanks excluded from notification are:

1. farm or residential tanks of 1,100 gallons or less capacity used for storing motor fuel for noncommercial purposes;
2. tanks used for storing heating oil for consumptive use on the premises where stored;
3. septic tanks;
4. pipeline facilities (including gathering lines) regulated under the Natural Gas Pipeline Safety Act of 1968, or the Hazardous Liquid Pipeline Safety Act of 1979, or which is an intrastate pipeline facility regulated under State laws;
5. surface impoundments, pits, ponds, or lagoons;
6. storm water or wastewater collection systems;
7. flow-through process tanks;
8. liquid traps or associated gathering lines directly related to oil or gas production and gathering operations;
9. storage tanks situated in an underground area (such as a basement, cellar, mine working, drift, shaft, or tunnel) if the storage tank is situated upon or above the surface of the floor.

What Substances Are Covered? The notification requirements apply to underground storage tanks that contain regulated substances. This includes any substance defined as hazardous in section 101 (14) of the Comprehensive Environmental Response, Compensation and Liability Act of 1980 (CERCLA), with the exception of those substances regulated as hazardous waste under Subtitle C of RCRA. It also includes petroleum, e.g., crude oil or any fraction thereof which is liquid at standard conditions of temperature and pressure (60 degrees Fahrenheit and 14.7 pounds per square inch absolute).

Where To Notify? Completed notification forms should be sent to the address given at the top of this page.

When To Notify? 1. Owners of underground storage tanks in use or that have been taken out of operation after January 1, 1974, but still in the ground, must notify by May 8, 1986. 2. Owners who bring underground storage tanks into use after May 8, 1986, must notify within 30 days of bringing the tanks into use.

Penalties: Any owner who knowingly fails to notify or submits false information shall be subject to a civil penalty not to exceed $10,000 for each tank for which notification is not given or for which false information is submitted.

INSTRUCTIONS

Please type or print in ink all items except "signature" in Section V. This form must by completed for each location containing underground storage tanks. If more than 5 tanks are owned at this location, photocopy the reverse side, and staple continuation sheets to this form.

Indicate number of continuation sheets attached: [ ]

I. OWNERSHIP OF TANK(S)

Owner Name (Corporation, Individual, Public Agency, or Other Entity): 27th CE/CEVP

Street Address: 111 Engineers Way

County: Curry

City: Cannon AFB | State: NM | ZIP Code: 88103

Area Code: 505 | Phone Number: 784-6022

Type of Owner (Mark all that apply ☑)

- [ ] Current
- [ ] Former
- [ ] State or Local Govt
- [x] Federal Govt (GSA facility I.D. no. _____)
- [ ] Private or Corporate
- [ ] Ownership uncertain

II. LOCATION OF TANK(S)

(If same as Section 1, mark box here [ ])

Facility Name or Company Site Identifier, as applicable: Bldg. 165 Sewer 9

Street Address or State Road, as applicable:

County:

City (nearest): | State: | ZIP Code:

Indicate number of tanks at this location: 1

Mark box here if tank(s) are located on land within an Indian reservation or on other Indian trust lands: [ ]

III. CONTACT PERSON AT TANK LOCATION

Name (If same as Section I, mark box here [ ]): [signature]

Job Title: CQC Cheyenne

Area Code: 505 | Phone Number: 769-9019

IV. TYPE OF NOTIFICATION

[ ] Mark box here only if this is an amended or subsequent notification for this location.

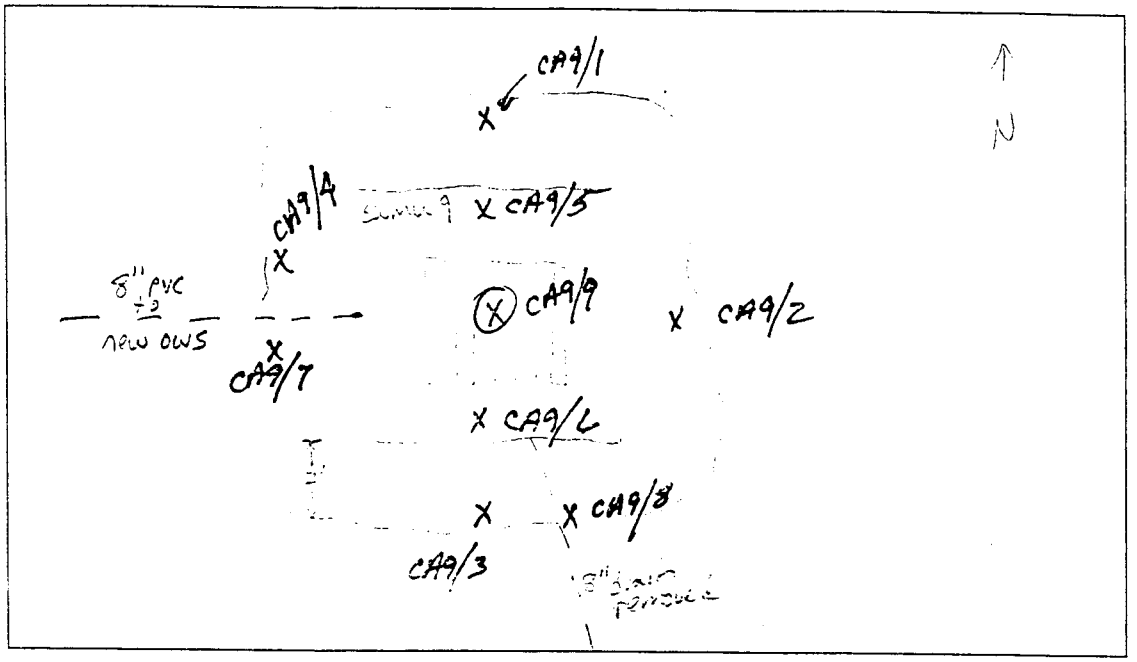
V. CERTIFICATION (Read and sign after completing Section VI.)

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete.

Name and official title of owner or owner's authorized representative	Signature	Date Signed

CONTINUE ON REVERSE SIDE

SKETCH: Sump 9



CA9/1 thru CA9/6: Field Screening (Sand trap)

CA9/7 + CA9/8: Field Screening (inlet + outlet)

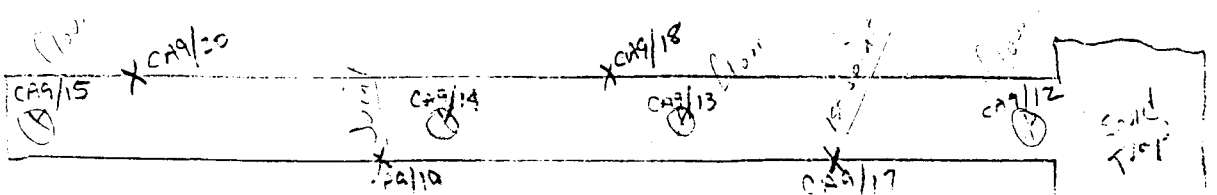
CA9/9: Confirmatory Sample (site)

CA9/10: Confirmatory Sample (excavated material)

CA9/12 thru CA9/15: Field Screening (trench floor)

CA9/16: Confirmatory Sample (excavated material trench)

CA9/17 thru CA9/20: Field Screening (trench walls)



SAMPLE INFORMATION

Sample ID No.: CA9/1, CA9/2, CA9/3, CA9/4, CA9/5, CA9/6

Sample Depth: 8' Sample Matrix: Soil

Sample Location: Bottom of excavation

Sample Purpose: Field Screening

Number of Samples Taken: 6 Preservatives Used: ICE

Sample Method: Immunoassay, TPH + BTEX, Headspace

Headspace Analysis: CA9/1, CA9/2, CA9/4, CA9/5 = 0.0 ppm CA9/3 = 0.8 ppm CA9/6 = 0.4 ppm

Contaminated Action Level: >100 ppm TPH + >50 ppm BTEX

SAMPLE INFORMATION

Sample ID No.: CA9/7 + CA9/8

Sample Depth: 4' Sample Matrix: Soil

Sample Location: 2' below inlet + outlet piping

Sample Purpose: Field Screening

Number of Samples Taken: 2 Preservatives Used: ICE

Sample Method: Immunoassay TPH + BTEX, Headspace

Headspace Analysis: CA9/7 = 1.3 ppm + CA9/8 1.7 ppm

Contaminated Action Level: >100 ppm TPH + >50 ppm BTEX

SAMPLE INFORMATION

Sample ID No.: CA9/9

Sample Depth: 8' Sample Matrix: Soil

Sample Location: 2' below CWS

Sample Purpose: Site Confirmatory Closure

Number of Samples Taken: 4 Preservatives Used: ICE

Sample Method: 6010+7470 using 1311 Extraction, 8260, 8270, 8015

Headspace Analysis: NT

Contaminated Action Level:

SAMPLE INFORMATION

Sample ID No.: CA9/10

Sample Depth: Composite Sample Matrix: Soil

Sample Location: excavated material stockpile

Sample Purpose: disposal

Number of Samples Taken: 2 Preservatives Used: ICE

Sample Method: 1311 Extraction, TPH 8015 + BTEX 8020

Headspace Analysis: NT

Contaminated Action Level: 7100 PPM TPH + >50 PPM BTEX

SAMPLE INFORMATION

Sample ID No.: CA9/12, CA9/13, CA9/14, CA9/15

Sample Depth: 5' to 6' Sample Matrix: Soil

Sample Location: Trench Floor

Sample Purpose: Field Screening

Number of Samples Taken: 4 Preservatives Used: ICE

Sample Method: Immunoassay TPH & BTEX, Headspace

Headspace Analysis: CA9/12 = 0.3 PPM, CA9/13 = 0.2 PPM, CA9/14 1.4 PPM
CA9/15 = 2.1 PPM VOC'S

Contaminated Action Level: >100 PPM TPH + >50 PPM BTEX

SAMPLE INFORMATION

Sample ID No.: CA9/16

Sample Depth: Composite Sample Matrix: Soil

Sample Location: (Trench) excavated material

Sample Purpose: disposal

Number of Samples Taken: 2 Preservatives Used: ICE

Sample Method: 1311 Extraction, 8015 TPH + 8020 BTEX

Headspace Analysis: NT

Contaminated Action Level: >100 PPM TPH + >50 PPM BTEX

SAMPLE INFORMATION

Sample ID No.: CA9/17, CA9/18, CA9/19, CA9/20

Sample Depth: 2' to 3' Sample Matrix: Soil

Sample Location: trench walls

Sample Purpose: Field Screening

Number of Samples Taken: 4 Preservatives Used: ICE

Sample Method: Immunoassay TPH + BTEX, Headspace

Headspace Analysis: CA9/17 = 22.3 PPM, CA9/18 = 0.3 PPM, CA9/19 0.0 PPM, CA9/20 0.0 PPM

Contaminated Action Level: >100 PPM TPH + >50 PPM BTEX

SAMPLE INFORMATION

Sample ID No.: CA9/3, CA9/7, CA9/12, CA9/17

Sample Depth: CA9/3 = 3', CA9/7 = 4', CA9/12/5', CA9/17 = 3' Sample Matrix: Soil

Sample Location: /3 excavation, /7 outlet, /12 trench floor, /17 trench wall

Sample Purpose: Field Screening / Lab analysis correlation

Number of Samples Taken: 4 Preservatives Used: ICE

Sample Method: TPH 8015 (MOD) + BTEX 8020

Headspace Analysis: NT

Contaminated Action Level: >100 PPM TPH + >50 PPM BTEX

DATA SHEET
ENVIROGARD PETROLEUM FUELS (BTEX) IN SOIL TEST KIT

	OD VALUE
Negative Control	0.69
10 ppm BTEX Calibrator	0.52
50 ppm BTEX Calibrator	0.41
300 ppm BTEX Calibrator	0.20

SAMPLE ID	OD VALUE	INTERPRETATION
CA9/1-97-0109-1000	0.59	< 10 PPM BTEX
CA9/2-97-0109-1001	0.56	< 10 PPM BTEX
CA9/3-97-0109-1002	0.58	< 10 PPM BTEX
CA9/4-97-0109-1003	0.54	< 10 PPM BTEX
CA9/5-97-0109-1004	0.57	< 10 PPM BTEX
CA9/6-97-0109-1005	0.56	< 10 PPM BTEX
CA9/7-97-0109-1006	0.43	> 10 PPM < 50 PPM BTEX
CA9/8-97-0109-1007	0.51	> 10 PPM < 50 PPM BTEX
CA9/12-97-0109-1301	0.42	> 10 PPM < 50 PPM BTEX
CA9/13-97-0109-1302	0.55	< 10 PPM BTEX
CA9/14-97-0109-1303	0.54	< 10 PPM BTEX
CA9/15-97-0109-1304	0.57	< 10 PPM BTEX
CA9/17-97-0109-0900	0.38	> 50 PPM < 300 PPM BTEX

DATA SHEET
ENVIROGARD PETROLEUM FUELS (BTEX) IN SOIL TEST KIT

	OD VALUE
Negative Control	0.69
10 ppm BTEX Calibrator	0.52
50 ppm BTEX Calibrator	0.41
300 ppm BTEX Calibrator	0.20

SAMPLE ID	OD VALUE	INTERPRETATION
049/19-97-[illegible]-0000	0.52	10 PPM BTEX
049/19-97-[illegible]-0001	0.46	>10 < 50 PPM BTEX
049/20-97-[illegible]-0002	0.55	< 10 PPM BTEX

DATA SHEET
ENVIROGARD PETROLEUM FUELS (TPH) IN SOIL TEST KIT

	OD VALUE
Negative Control	0.72
20 ppm ~~BTEX~~ TPH Calibrator	0.56
100 ppm ~~BTEX~~ TPH Calibrator	0.34
600 ppm ~~BTEX~~ TPH Calibrator	0.18

SAMPLE ID	OD VALUE	INTERPRETATION
CA9/1-97-0109-1000	0.62	<20 PPM TPH
CA9/2-97-0109-1001	0.57	<20 PPM TPH
CA9/3-97-0109-1002	0.48	720<100 PPM TPH
CA9/4-97-0109-1003	0.56	20 PPM TPH
CA9/5-97-0109-1004	0.53	720<100 PPM TPH
CA9/6-97-0109-1005	0.57	<20 PPM TPH
CA9/7-97-0109-1006	0.46	720<100 PPM TPH
CA9/8-97-0109-1007	0.55	720<100 PPM TPH
CA9/12-97-0109-1301	0.49	720<100 PPM TPH
CA9/13-97-0109-1302	0.50	>20 <100 PPM TPH
CA9/14-97-0109-1303	0.48	>20 <100 PPM TPH
CA9/15-97-0109-1304	0.51	720 <100 PPM TPH
CA9/17-97-0110-0900	0.37	720 <100 PPM TPH

DATA SHEET
ENVIROGARD PETROLEUM FUELS (TPH) IN SOIL TEST KIT

	OD VALUE
Negative Control	0.72
20 ppm ~~BTEX~~ TPH Calibrator	0.56
100 ppm ~~BTEX~~ TPH Calibrator	0.34
600 ppm ~~BTEX~~ TPH Calibrator	0.18

SAMPLE ID	OD VALUE	INTERPRETATION
CH9/18-97-OIC-0901	0.53	720 <100 PPM TPH
CH9/19-97-OIC-0902	0.51	720 <100 PPM TPH
CH9/20-97-OIC-0903	0.53	720 <100 PPM TPH

CHEYENN
BUILDING CONTRACTORS INC
P.O. BOX 418
CLOVIS, NEW MEXICO 88102-0418
(505) 769-9019 • FAX (505) 769-2588

GB98
LIC. NO. 30759

CERTIFICATE OF VAPOR TESTING

DATE 12/23/96

TANK OWNER 27th CE/CEUP PHONE 784-6022

ADDRESS 111 Engineers Way Cannon AFB NM 88103

CONTRACTOR REMOVING TANK Cheyenne

ADDRESS P.O. Box 418 Clovis NM 88101 PHONE 769-9019

CHEYENNE BUILDERS IS CERTIFIED CONTRACTOR IN VAPOR TESTING.

I _____ HEREBY CERTIFY THAT ~~TANK~~ SWMU 9 AT bldg. 165 IS FREE FROM COMBUSTIBLE MATERIAL.

TROY MORALEZ

MIKE LANDGRAF

EXCAVATION CHECK LIST

Company: Cheyenne	Date: 12/23/96
Site Location/Description: SWMU 9 bldg. 165	Time: 11:45 ☐ AM ☐ PM
Inspected by: Troy Moralez	Project Number: DACA47-95-D-0035

INSTRUCTIONS: Read the ITEM NUMBER and DESCRIPTION to determine the current conditions of this excavation site. Mark an (X) in the YES column if description is present and has been satisfied. Mark an (X) in the NO column if the item has not been completed. Mark a line (–) across the YES and NO columns if the ITEM does not apply. Use the NOTES section to list the ITEM NUMBER. Write any comments that apply to the ITEM NUMBER.

ITEM NO.	DESCRIPTION	YES	NO	ITEM NO.	DESCRIPTION	YES	NO
1	The utility company has been notified of excavation work schedule.	X		19	Employees working below other employees in trench are protected from hazards.	X	
2	Location of underground utility lines are identified.	X		20	The trench is free of standing water.	X	
3	Hazardous objects have been removed from excavation area or blocked securely.	X		21	The proper water removal equipment is operating under guidance of competent person.	X	
4	Soil type is classified.	X		22	Diversion ditches or dikes are in place to prevent surface water from entering trench.	X	
5	Sloping and Benching system is designed per OSHA requirements.	X		23	The trench is inspected by competent person following any amount of rain.	X	
6	Timber shoring system is designed per OSHA requirements.	X		24	Employees are wearing proper safety equipment.	X	
7	Aluminum Hydraulic shoring system is designed per OSHA requirements.	X		25	Test air quality in trench if a hazardous atmosphere is suspected.	X	
8	Shielding system is designed per OSHA requirements.	X		26	A ventilation or respiratory protection is in use.	X	
9	Shields are free from damage or defects.	X		27	Protective support systems are installed from the top down.	X	
10	Employees are protected from cave-ins when entering and exiting the shield.	X		28	Protective support systems are dismantled from the bottom up.	X	
	When a combination of sloping and shielding is used, the shield must extend 18 inches above the bottom slope of the excavation.	X		29	Excavation is backfilled as the protective system is dismantled.	X	
12	A ladder is provided and secured in trench four or more feet deep; top of ladder extending at least 36 inches above edge of trench.	X		30	Heavy equipment is mounted on wooden mats to distribute weight.	X	
13	A ladder is within 25 feet of all employees working in trench	X		31	Damaged materials or equipment are removed from service.	X	
14	Excavated material is stored at least two feet from the edge of the excavation.	X		32	An emergency response program is in place.	X	
15	Employees are protected from loose material which could fall into trench.	X		33	Life support equipment is in working order.	X	
16	A competent person inspects the trench prior to the start of the shift.	X		34	Note other conditions. Breathing Zone 0.0 PPM		
17	The location of trench is marked by banners, barricades or other signals.	X		35	CGI < 2% LEL OXY 21%		
18	Bridges or walkways over excavations are equipped with guardrails and toeboards.	X		36			

Notes:

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CHEYENNE BUILDING CONTRACTORS, INC.
QUALITY CONTROL FIELD NOTES
UNIT REMOVAL AT CANNON AFB, NM
CONTRACT NO.: DACA47-95-D-0035

DATE: 2-4-97
TIME: 9:00AM
WEATHER: Mild
TEMP.: 51°

UNIT INFORMATION

Unit Owner: U.S. Army Corp of Engineers Phone No.: 505-784-4351

Address: P.O. Box 1580 Albuquerque, NM 87103

Bldg. No.: 186 SWMU No.: 32A

Date Installed: 1971 Date Last Used: 2-4-97

Units Association with Facility: POL for 4 support equipment wash racks

Unit Width: 6' Unit Length: 6' Unit Depth: 7'

Unit Contents: Oil / water Gallons Removed: 715

Type of Ground Cover: Asphalt + Concrete

Petroleum Odors: YES ☐ NO ☒

Visual Characterization of Soil: Clean no stains

Evidence of a Spill: YES ☐ NO ☑

Other Potential Sources of Contamination: leaking pipes and old UST

ANK CLOSURE WORKSHEE.
(COMPLETE AFTER CLOSURE)

Tank Owner 27th CE/CEVP Phone 784-6022
Mailing Address 111 Engineers Way Cannon AFB 88103
Tank Address Bldg. 196 SW'mu 32A
Contractor Name _____ Phone _____
Address _____
Contractor Name Cheyenne Bldg. Cont. INC Phone 769-9216
Address 1712 Prince St CLOVIS NM 88101

Tank Closure Date 2-4-97 # of Tanks Closed 1

I. Tank Closure Initial Procedures (check measures complied with):
- ✓ Obtain recommended safety equipment for all personnel
- ✓ Contact Fire Marshall or other fire officials
- ✓ Bond or ground equipment
- ✓ Drain product from piping and tank
- ✓ Disconnect, then cap or remove piping
- ✓ Remove all residual product from tank
- ✓ Excavate to tank top
- ✓ Remove all tank fixtures
- ✓ Properly purge or inert tank of all flammable vapors using approved method
- ✓ Continually monitor for explosive vapors while tank is being removed

II. Tank Removal
- ✓ Create vent hole
- ✓ Excavate tank using all safety precautions
- ✓ Clean and inspect tank
- ✓ Check excavation for evidence of leaks and notify EID and other proper authorities if leak is found
- ✓ Check vapor levels in tank before transporting
- ✓ Dispose of tank in approved manner

Tank disposal location Landfill CLOVIS NM 88101
City State
How did you assess site for leakage? Field Screening / lab analysis Correlation
Closure report kept at 111 Engineers Way Cannon AFB 88103
NOTE: Immediately report any evidence of leakage to EID at 827-0188

I hereby state that the above information is correct

[signature] CAC Cheyenne Bldg. Cont. INC
Signature of owner or contractor performing work

FOR EID USE ONLY
Notification Received _____ Approved By _____
Inspection Date _____ Inspector _____

Notification for Underground Storage Tanks

UST BUREAU/EID
1190 St. Francis Drive
Santa Fe, NM 87503

I.D. Number | STATE USE ONLY

Date Received

GENERAL INFORMATION

Notification is required by Federal law for all underground tanks that have been used to store regulated substances since January 1, 1974, that are in the ground as of May 8, 1986, or that are brought into use after May 8, 1986. The information requested is required by Section 9002 of the Resource Conservation and Recovery Act (RCRA) as amended.

The primary purpose of this notification program is to locate and evaluate underground tanks that store or have stored petroleum or hazardous substances. It is expected that the information you provide will be based on reasonably available records, or, in the absence of such records, your knowledge, belief, or recollection.

Who Must Notify? Section 9002 of RCRA, as amended, requires that, unless exempted, owners of underground tanks that store regulated substances must notify designated State or local agencies of the existence of their tanks. Owner means—

(a) in the case of an underground storage tank in use on November 8, 1984, or brought into use after that date, any person who owns an underground storage tank used for the storage, use, or dispensing of regulated substances, and

(b) in the case of any underground storage tank in use before November 8, 1984, but no longer in use on that date, any person who owned such tank immediately before the discontinuation of its use.

What Tanks Are Included? Underground storage tank is defined as any one or combination of tanks that (1) is used to contain an accumulation of "regulated substances," and (2) whose volume (including connected underground piping) is 10% or more beneath the ground. Some examples are underground tanks storing 1. gasoline, used oil, or diesel fuel, and 2. industrial solvents, pesticides, herbicides or fumigants.

What Tanks Are Excluded? Tanks removed from the ground are not subject to notification. Other tanks excluded from notification are:

1. farm or residential tanks of 1,100 gallons or less capacity used for storing motor fuel for noncommercial purposes;
2. tanks used for storing heating oil for consumptive use on the premises where stored;
3. septic tanks;
4. pipeline facilities (including gathering lines) regulated under the Natural Gas Pipeline Safety Act of 1968, or the Hazardous Liquid Pipeline Safety Act of 1979, or which is an intrastate pipeline facility regulated under State laws;
5. surface impoundments, pits, ponds, or lagoons;
6. storm water or wastewater collection systems;
7. flow-through process tanks;
8. liquid traps or associated gathering lines directly related to oil or gas production and gathering operations;
9. storage tanks situated in an underground area (such as a basement, cellar, mineworking, drift, shaft, or tunnel) if the storage tank is situated upon or above the surface of the floor.

What Substances Are Covered? The notification requirements apply to underground storage tanks that contain regulated substances. This includes any substance defined as hazardous in section 101 (14) of the Comprehensive Environmental Response, Compensation and Liability Act of 1980 (CERCLA) with the exception of those substances regulated as hazardous waste under Subtitle C of RCRA. It also includes petroleum, e.g., crude oil or any fraction thereof which is liquid at standard conditions of temperature and pressure (60 degrees Fahrenheit and 14.7 pounds per square inch absolute).

Where To Notify? Completed notification forms should be sent to the address given at the top of this page.

When To Notify? 1. Owners of underground storage tanks in use or that have been taken out of operation after January 1, 1974, but still in the ground, must notify by May 8, 1986. 2. Owners who bring underground storage tanks into use after May 8, 1986, must notify within 30 days of bringing the tanks into use.

Penalties: Any owner who knowingly fails to notify or submits false information shall be subject to a civil penalty not to exceed $10,000 for each tank for which notification is not given or for which false information is submitted.

INSTRUCTIONS

Please type or print in ink all items except "signature" in Section V. This form must by completed for each location containing underground storage tanks. If more than 5 tanks are owned at this location, photocopy the reverse side, and staple continuation sheets to this form.

Indicate number of continuation sheets attached: [ ]

I. OWNERSHIP OF TANK(S)

Owner Name (Corporation, Individual, Public Agency, or Other Entity): 27th CE/CEVP

Street Address: 111 Engineers Way

County: Curry

City: Cannon AFB | State: NM | ZIP Code: 88103

Area Code: (505) | Phone Number: 784-6022

Type of Owner (Mark all that apply ☒)

- [ ] Current
- [ ] Former
- [ ] State or Local Govt
- [x] Federal Govt (GSA facility I.D. no. _____)
- [ ] Private or Corporate
- [ ] Ownership uncertain

II. LOCATION OF TANK(S)

(If same as Section 1, mark box here [ ])

Facility Name or Company Site Identifier, as applicable: Bldg. 186 SWMU 32A

Street Address or State Road, as applicable:

County:

City (nearest): | State: | ZIP Code:

Indicate number of tanks at this location: 7

Mark box here if tank(s) are located on land within an Indian reservation or on other Indian trust lands: [ ]

III. CONTACT PERSON AT TANK LOCATION

Name (If same as Section I, mark box here [ ]): [illegible]

Job Title: CDC Cheyenne

Area Code: (505) | Phone Number: 769-9216

IV. TYPE OF NOTIFICATION

[ ] Mark box here only if this is an amended or subsequent notification for this location.

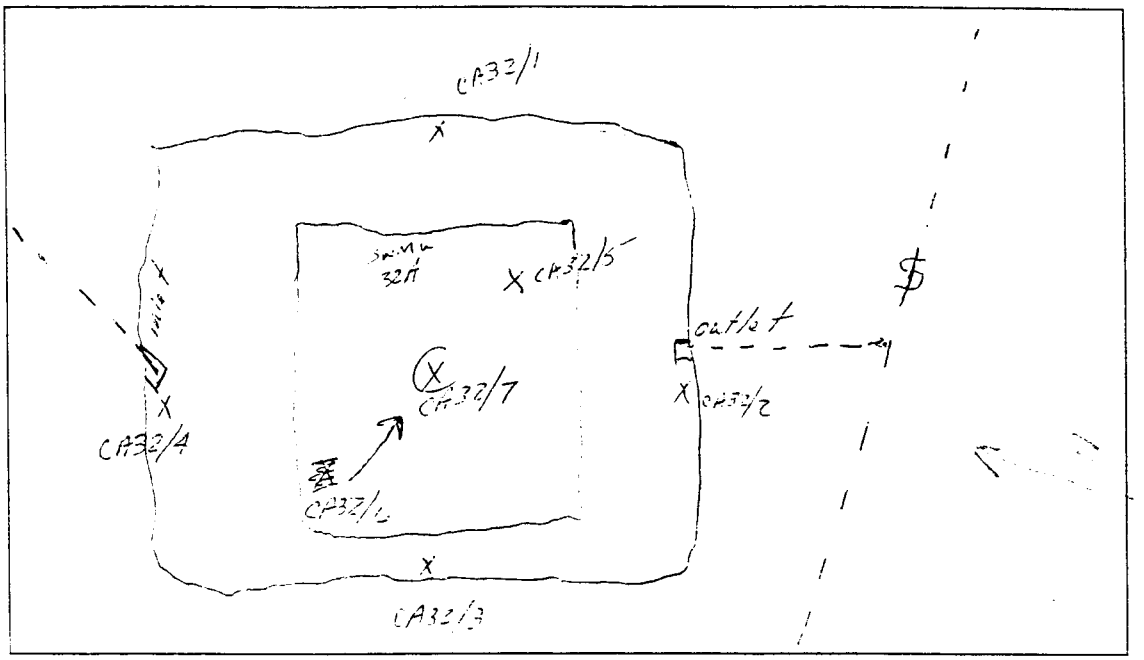
V. CERTIFICATION (Read and sign after completing Section VI.)

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete.

Name and official title of owner or owner's authorized representative | Signature | Date Signed

CONTINUE ON REVERSE SIDE

SKETCH: 32A



CA32/1 thru CA32/6 Field Screening

CA32/7 : Site confirmatory

CA32/8 : Excavate material confirmatory

CA32/2 + CA32/5 : Field Screening/Lab analysis Correlation

SAMPLE INFORMATION

Sample ID No.: CA32/1, CA32/2, CA32/3, CA32/4

Sample Depth: 9' Sample Matrix: Soil

Sample Location: Bottom sides of excavation

Sample Purpose: Field Screening

Number of Samples Taken: 4 Preservatives Used: N/E

Sample Method: Immunoassay TPH + BTEX Headspace

Headspace Analysis: 0.0 ppm VOC

Contaminated Action Level: >100 PPM TPH + >50 PPM BTEX

SAMPLE INFORMATION

Sample ID No.: CA32/5 + CA32/6

Sample Depth: 9.5' Sample Matrix: Soil

Sample Location: Bottom floor of excavation

Sample Purpose: Field Screening

Number of Samples Taken: 2 Preservatives Used: N/E

Sample Method: Immunoassay TPH + BTEX, Headspace

Headspace Analysis: 0.0 PPM VOC

Contaminated Action Level: >100 PPM TPH + >50 PPM BTEX

SAMPLE INFORMATION

Sample ID No.: CA32/7-97-0205-1306

Sample Depth: 10' Sample Matrix: Soil

Sample Location: Center of excavation

Sample Purpose: Site Confirmatory Closure

Number of Samples Taken: 4 Preservatives Used: ICE

Sample Method: 8015, 8260, 8270 + 1010, 7470 using 1311 Extr.

Headspace Analysis: OT

Contaminated Action Level:

SAMPLE INFORMATION

Sample ID No.: CA32/8-97-0205-1307

Sample Depth: Composite Sample Matrix: Soil

Sample Location: excavated material

Sample Purpose Disposal

Number of Samples Taken: 2 Preservatives Used: ICE

Sample Method: 8015, 8020, 1311 Extr.

Headspace Analysis: OT

Contaminated Action Level: >100 PPM TPH + >50 PPM BTEX

SAMPLE INFORMATION

Sample ID No.: CA32/2 + CA32/5

Sample Depth: 9' to 9.5' Sample Matrix: Soil

Sample Location: Bottom of excavation

Sample Purpose: Correlation

Number of Samples Taken: 2 Preservatives Used: ICE

Sample Method: 8015, 8020

Headspace Analysis: NT

Contaminated Action Level: 7100 ppm TPH + 750 ppm BTEX

SAMPLE INFORMATION

Sample ID No.: _____

Sample Depth: _____ Sample Matrix: Soil

Sample Location: _____

Sample Purpose: _____

Number of Samples Taken: _____ Preservatives Used: _____

Sample Method: _____

Headspace Analysis: _____

Contaminated Action Level: _____

DATA SHEET
ENVIROGARD PETROLEUM FUELS (BTEX) IN SOIL TEST KIT

	OD VALUE
Negative Control	0.79
10 ppm BTEX Calibrator	0.54
50 ppm BTEX Calibrator	0.32
300 ppm BTEX Calibrator	0.19

SAMPLE ID	OD VALUE	INTERPRETATION
CA32/1-97-0205-1300	0.77	< 10 PPM BTEX
CA32/2-97-0205-1301	0.74	< 10 PPM BTEX
CA32/3-97-0205-1302	0.68	< 10 PPM BTEX
CA32/4-97-0205-1303	0.71	< 10 PPM BTEX
CA32/5-97-0205-1304	0.72	< 10 PPM BTEX
CA32/6-97-0205-1305	0.79	< 10 PPM BTEX ND

DATA SHEET
ENVIROGARD PETROLEUM FUELS (TPH) IN SOIL TEST KIT

	OD
Negative Control	0.83
20 ppm ~~BTEX~~ Calibrator	0.55
[illegible]	0.30
50 ppm ~~BTEX~~ Calibrator	0.17

SAMPLE ID	OD VALUE	INTERPRETATION
[illegible]	0.74	
[illegible] 97-0205-1500	0.13	[illegible]
[illegible] 97-0205-1302	0.80	< [illegible] ppm TPH
[illegible]	0.82	[illegible]
[illegible] 97-0205-1304	0.82	< [illegible] TPH
[illegible] 97-0205-1305	0.76	< [illegible] ppm TPH

CHEYENNE
BUILDING CONTRACTORS INC
P.O. BOX 418
CLOVIS, NEW MEXICO 88102-0418
(505) 769-9019 • FAX (505) 769-2588

GB98
LIC. NO. 30759

CERTIFICATE OF VAPOR TESTING

DATE 2-4-97

TANK OWNER 27th CE/CEVP PHONE 784-6022

ADDRESS ~~[illegible]~~ 111 Engineers Way, Cannon AFB, NM 88103

CONTRACTOR REMOVING TANK Cheyenne

ADDRESS PO BOX 418 PHONE 769-9019

CHEYENNE BUILDERS IS CERTIFIED CONTRACTOR IN VAPOR TESTING.

I Troy Moralez HEREBY CERTIFY THAT ~~TANK~~ Sewer 32A AT Bldg. 186 IS FREE FROM COMBUSTIBLE MATERIAL.

TROY MORALEZ

MIKE LANDGRAF

EXCAVATION CHECK LIST

Company: Chesapeake Bldg Cont	Date: 2-4-97
Site Location/Description: Sewer 324 Bldg. 186	Time: 9 : 00 AM / PM
Inspected by: Troy Morale?	Project Number: DACA87-95-D-0035

TRUCTIONS: Read the ITEM NUMBER and DESCRIPTION to determine the current conditions of this excavation site. Mark an (X) in the YES column if description is present and has been satisfied. Mark an (X) in the NO column if the item has not been completed. Mark a line (–) across the YES and No columns if the ITEM does not apply. Use the NOTES section to list the ITEM NUMBER. Write any comments that apply to the ITEM NUMBER.

ITEM	DESCRIPTION	YES	NO	ITEM	DESCRIPTION	YES	NO
1	The utility company has been notified of excavation work schedule.	X		19	Employees working below other employees in trench are protected from hazards.	X	
2	Location of underground utility lines are identified.	X		20	The trench is free of standing water.	X	
3	Hazardous objects have been removed from excavation area or blocked securely.	X		21	The proper water removal equipment is operating under guidance of competent person.	X	
4	Soil type is classified.	X		22	Diversion ditches or dikes are in place to prevent surface water from entering trench.	X	
5	Sloping and Benching system is designed per OSHA requirements.	X		23	The trench is inspected by competent person following any amount of rain.	X	
6	Timber shoring system is designed per OSHA requirements.	X		24	Employees are wearing proper safety equipment.	X	
7	Aluminum Hydraulic shoring system is designed per OSHA requirements.	X		25	Test air quality in trench if a hazardous atmosphere is suspected.	X	
8	Shielding system is designed per OSHA requirements.	X		26	A ventilation or respiratory protection is in use.	X	
9	Shields are free from damage or defects.	X		27	Protective support systems are installed from the top down.	X	
10	Employees are protected from cave-ins when entering and exiting the shield.	X		28	Protective support systems are dismantled from the bottom up.	X	
11	When a combination of sloping and shielding is used, the shield must extend 18 inches above the bottom slope of the excavation.	X		29	Excavation is backfilled as the protective system is dismantled.	X	
12	A ladder is provided and secured in trench four or more feet deep: top of ladder extending at least 36 inches above edge of trench.	X		30	Heavy equipment is mounted on wooden mats to distribute weight.	X	
13	A ladder is within 25 feet of all employees working in trench	X		31	Damaged materials or equipment are removed from service.	X	
14	Excavated material is stored at least two feet from the edge of the excavation.	X		32	An emergency response program is in place.	X	
15	Employees are protected from loose material which could fall into trench.	X		33	Life support equipment is in working order.	X	
16	A competent person inspects the trench prior to the start of the shift.	X		34	Note other conditions. CGI = < 2% LEL		
17	The location of trench is marked by banners, barricades or other signals.	X		35	PID 0.0 PPM VOC [illegible]		
18	Bridges or walkways over excavations are equipped with guardrails and toeboards.	X		36			

Notes:

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To Reorder Call: 1-800-327-4868

CHEYENNE BUILDING CONTRACTORS, INC.
QUALITY CONTROL FIELD NOTES
UNIT REMOVAL AT CANNON AFB, NM
CONTRACT NO.: DACA47-95-D-0035

DATE: 2-19-97
TIME: 9:00AM
WEATHER: Fog
TEMP.: 39°

UNIT INFORMATION

Unit Owner: U.S. Army Corp of Engineers Phone No.: 505-784-4351

Address: P.O. Box 1580 Albuquerque, NM 87103

Bldg. No.: 275 SWMU No.: 51

Date Installed: 1965 Date Last Used: 2-4-97

Units Association with Facility: Solid Waste Management Unit

Unit Width: 5' Unit Length: 5' Unit Depth: 5.5'

Unit Contents: Oil/cont. H2O Gallons Removed: 55gal

Type of Ground Cover: Asphalt

Petroleum Odors: YES ☐ NO ☒

Visual Characterization of Soil: Some areas visual contamination

Evidence of a ~~Spill~~ leak YES ☒ NO ☐

Other Potential Sources of Contamination: leaking pipes

ANK CLOSURE WORKSHEET
(COMPLETE AFTER CLOSURE)

Tank Owner 27th CE/CEVP Phone 784-6022
Mailing Address 111 Engineers Way, Cannon AFB NM 88103
Tank Address Bldg. 375 Swma 51
Contractor Name _____ Phone _____
Address _____
Contractor Name Cheyenne Bldg. Cont. INC. Phone 769-9019
Address P.O. BOX 418 CLOVIS NM 88101

Tank Closure Date 2-19-97 # of Tanks Closed 7

I. Tank Closure Initial Procedures (check measures complied with):
- ✓ Obtain recommended safety equipment for all personnel
- ✓ Contact Fire Marshall or other fire officials
- ✓ Bond or ground equipment
- ✓ Drain product from piping and tank
- ✓ Disconnect, then cap or remove piping
- ___ Remove all residual product from tank
- ✓ Excavate to tank top
- ✓ Remove all tank fixtures
- ✓ Properly purge or inert tank of all flammable vapors using approved method
- ✓ Continually monitor for explosive vapors while tank is being removed

II. Tank Removal
- ✓ Create vent hole
- ✓ Excavate tank using all safety precautions
- ✓ Clean and inspect tank
- ✓ Check excavation for evidence of leaks and notify EID and other proper authorities if leak is found
- ✓ Check vapor levels in tank before transporting
- ✓ Dispose of tank in approved manner

Tank disposal location Landfill CLOVIS NM 88101
City State

How did you assess site for leakage? Field Screening / Laboratory's Correlation.
Closure report kept at: 111 Engineers Way Cannon AFB NM 88103
NOTE: Immediately report any evidence of leakage to EID at 827-0188

I hereby state that the above information is correct

[signature] COP Cheyenne
Signature of owner or contractor performing work

FOR EID USE ONLY
Notification Received _____ Approved By _____
Inspection Date _____ Inspector _____

Notification for Underground Storage Tanks

UST BUREAU/EID
1190 St. Francis Drive
Santa Fe, NM 87503

I.D. Number

STATE USE ONLY

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Indicate number of continuation sheets attached: [ ]

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Owner Name (Corporation, Individual, Public Agency, or Other Entity): 27th CE/CEVP

Street Address: 111 Engineers Way

County: Curry

City: CANNON AFB State: NM ZIP Code: 88103

Area Code: 505 Phone Number: 784-6022

Type of Owner (Mark all that apply ☑)

- [ ] Current
- [ ] Former
- [ ] State or Local Govt
- [x] Federal Govt (GSA facility I.D. no. _____)
- [ ] Private or Corporate
- [ ] Ownership uncertain

II. LOCATION OF TANK(S)

(If same as Section I, mark box here [ ])

Facility Name or Company Site Identifier, as applicable: Bldg. 375 SWMU 51

Street Address or State Road, as applicable:

County:

City (nearest): State: ZIP Code:

Indicate number of tanks at this location: 1

Mark box here if tank(s) are located on land within an Indian reservation or on other Indian trust lands: [ ]

III. CONTACT PERSON AT TANK LOCATION

Name (If same as Section I, mark box here [ ]): Tim McC

Job Title: CQC Cheyenne

Area Code: 505 Phone Number: 769 9019

IV. TYPE OF NOTIFICATION

[ ] Mark box here only if this is an amended or subsequent notification for this location.

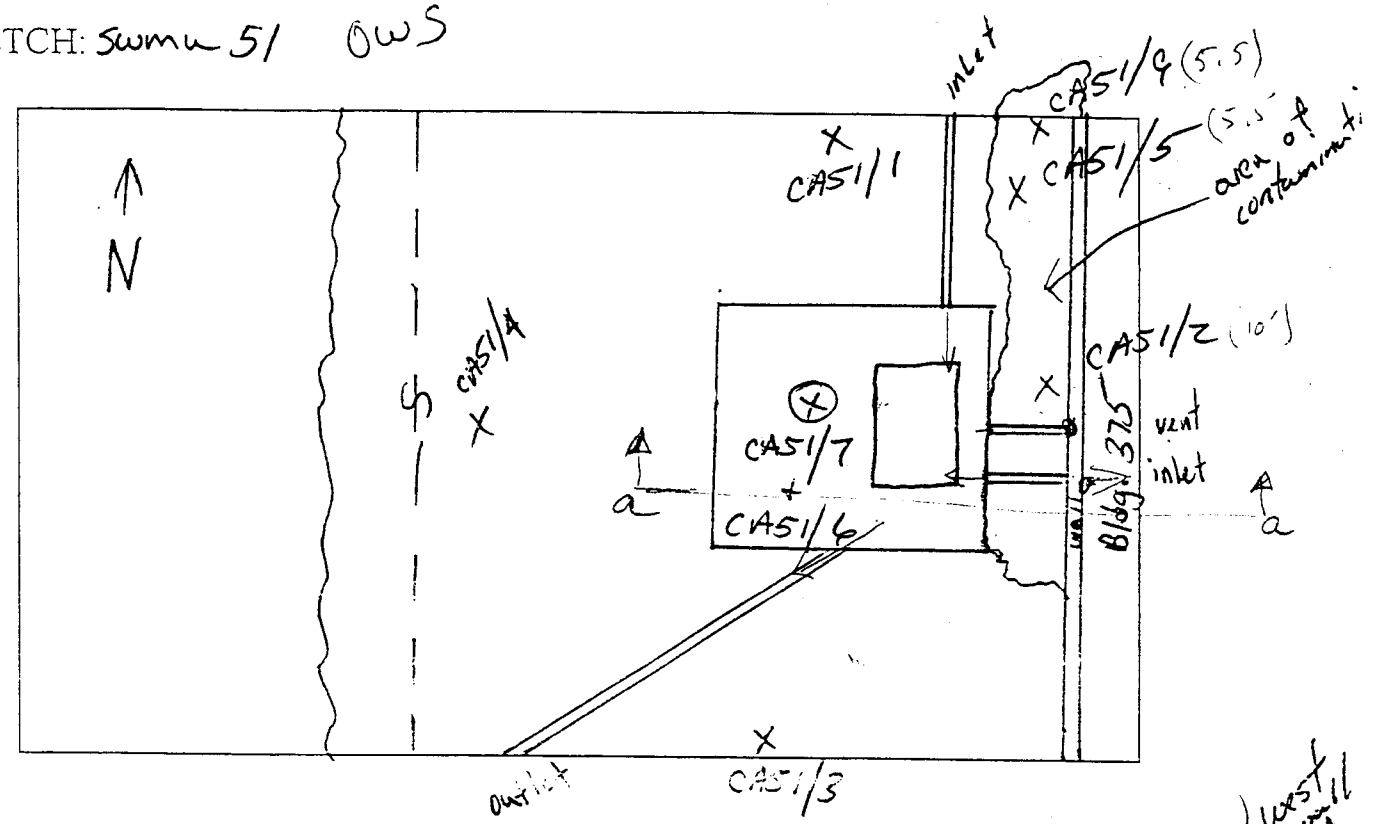
V. CERTIFICATION (Read and sign after completing Section VI.)

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete.

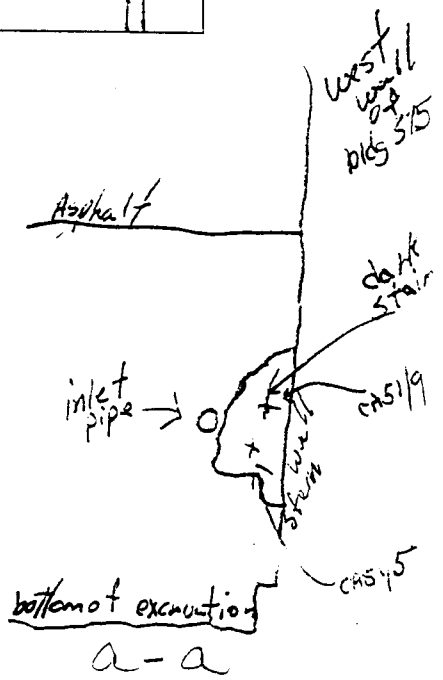
Name and official title of owner or owner's authorized representative | Signature | Date Signed

CONTINUE ON REVERSE SIDE

SKETCH: SWMU 51 OWS



CA51/1 thru CA51/6: Field Screening
CA51/7: site confirmatory
CA51/8: excacated material confirmatory
CA51/9: Field Screening (re-sampled after contamination was removed further



SAMPLE INFORMATION

Sample ID No.: CA51/1 + CA51/6

Sample Depth: 10' Sample Matrix: Soil

Sample Location: CA51/1 bottom n. side + CA51/6 bottom center

Sample Purpose: Field Screening

Number of Samples Taken: 2 Preservatives Used: ICE

Sample Method: Immunoassay TPH + BTEX, HS

Headspace Analysis: CA51/1 = 0.4 PPM + CA51/6 = 0.0 PPM

Contaminated Action Level: >100 PPM TPH + >50 PPM BTEX

SAMPLE INFORMATION

Sample ID No.: CA51/2, CA51/3, CA51/4

Sample Depth: 9' Sample Matrix: Soil

Sample Location: north west + south walls

Sample Purpose: Field Screening

Number of Samples Taken: 3 Preservatives Used: ICE

Sample Method: Immunoassay TPH + BTEX, HS

Headspace Analysis: 0.0 PPM VOC

Contaminated Action Level: >100 TPH + >50 PPM BTEX

SAMPLE INFORMATION

Sample ID No.: CA51/5

Sample Depth: 5.5' Sample Matrix: Soil

Sample Location: north wall close to stemwall

Sample Purpose: Field Screening

Number of Samples Taken: 1 Preservatives Used: ICE

Sample Method: Immnoassay TPH+BTEX, HS

Headspace Analysis: 127.0 PPM VOC

Contaminated Action Level: 7100 PPM TPH + 750 PPM BTEX

SAMPLE INFORMATION

Sample ID No.: CA51/7

Sample Depth: 10' Sample Matrix: Soil

Sample Location: Center of excavation ~~at~~ wrong below tank

Sample Purpose: site confirmatory CLOSURE

Number of Samples Taken: 4 Preservatives Used: ICE

Sample Method: 8015, 8260, 8270, 6010 + 7470 using 1311 Extr.

Headspace Analysis: NT

Contaminated Action Level: NA

SAMPLE INFORMATION

Sample ID No.: CA51/8

Sample Depth: composite Sample Matrix: Soil

Sample Location: excavated material stockpile

Sample Purpose: disposal

Number of Samples Taken: 2 Preservatives Used: ICE

Sample Method: 8015, 8020 + 1311 Extraction

Headspace Analysis: NT

Contaminated Action Level: >100PPM TPH + >50PPM BTEX

SAMPLE INFORMATION

Sample ID No.: CA51/5 + CA51/6

Sample Depth: CA51/5 = 5.5' + CA51/6 = 10' Sample Matrix: Soil

Sample Location: CA51/5 area of contamination, CA51/6 center of excav.

Sample Purpose: Field Screening / Lab analysis correlation

Number of Samples Taken: 2 Preservatives Used: ICE

Sample Method: 8015 + 8020

Headspace Analysis: NT

Contaminated Action Level: >100 PPM TPH + >50 PPM BTEX

DATA SHEET
ENVIROGARD PETROOLEUM FUELS
(TPH) IN SOIL TEST KIT

	OD VALUE
ve Control	0.74
n TPH Calibrator	0.57
m TPH Calibrator	0.41
m TPH Calibrator	0.20

SAMPLE ID	OD VALUE	INTERPRETATION
-97-0220-1300	0.85	ND
/2 0220-1301	0.81	ND
/3-97-0220-1302	0.81	ND
/4-97-0220-1303	0.79	ND
/5-97-0220-1304	0.08	>600PPM TPH
/6-97-0220-1305	0.71	< 20PPM TPH

DATA SHEET
ENVIROGARD PETROLEUM FUELS (BTEX) IN SOIL TEST KIT

	OD VALUE
Negative Control	0.83
10 ppm BTEX Calibrator	0.68
50 ppm BTEX Calibrator	0.51
300 ppm BTEX Calibrator	0.21

SAMPLE ID	OD VALUE	INTERPRETATION
CA51/1-97-0220-1300	0.81	< 10 PPM BTEX
CA51/2-97-0220-1301	0.90	ND
CA51/3-97-0220-1302	0.92	ND
CA51/4-97-0220-1303	0.91	ND
CA51/5-97-0220-1304	0.07	>300PPM BTEX
CA51/6-97-0220-1305	0.73	< 10 PPM BTEX

CHEYENNE
BUILDING CONTRACTORS INC.
P.O. BOX 418
CLOVIS, NEW MEXICO 88102-0418
505) 769-9019 • FAX (505) 769-2588

GB98
LIC. NO. 30759

CERTIFICATE OF VAPOR TESTING

DATE 2-19-97

TANK OWNER 27th CE/CEUP PHONE 784-6022

ADDRESS 111 Engineers Way Cannon AFB NM 88103

CONTRACTOR REMOVING TANK Cheyenne

ADDRESS _____ PHONE _____

CHEYENNE BUILDERS IS CERTIFIED CONTRACTOR IN VAPOR TESTING.

I Troy Moralez HEREBY CERTIFY THAT ~~TANK~~ Sump 51 AT Bldg. 375 IS FREE FROM COMBUSTIBLE MATERIAL.

TROY MORALEZ

MIKE LANDGRAF

EXCAVATION CHECK LIST

Company Cheyenne	Date 2-19-97
Site Location/Description SWMU51 bldg. 375	Time 9:00 ☒ AM ☐ PM
Inspected by Troy Morales	Project Number DACA47-95-D-0035

INSTRUCTIONS: Read the ITEM NUMBER and DESCRIPTION to determine the current conditions of this excavation site. Mark an (X) in the YES column if description is present and has been satisfied. Mark an (X) in the NO column if the item has not been completed. Mark a line (–) across the YES and NO columns if the ITEM does not apply. Use the NOTES section to list the ITEM NUMBER. Write any comments that apply to the ITEM NUMBER.

ITEM NUMBER	DESCRIPTION	YES	NO	ITEM NUMBER	DESCRIPTION	YES	NO
1	The utility company has been notified of excavation work schedule.	X		19	Employees working below other employees in trench are protected from hazards.	X	
2	Location of underground utility lines are identified.	X		20	The trench is free of standing water.	X	
3	Hazardous objects have been removed from excavation area or blocked securely.	X		21	The proper water removal equipment is operating under guidance of competent person.	X	
4	Soil type is classified.	X		22	Diversion ditches or dikes are in place to prevent surface water from entering trench.	X	
5	Sloping and Benching system is designed per OSHA requirements.	X		23	The trench is inspected by competent person following any amount of rain.	X	
6	Timber shoring system is designed per OSHA requirements.	X		24	Employees are wearing proper safety equipment.	X	
7	Aluminum Hydraulic shoring system is designed per OSHA requirements.	X		25	Test air quality in trench if a hazardous atmosphere is suspected.	X	
8	Shielding system is designed per OSHA requirements.	X		26	A ventilation or respiratory protection is in use.	X	
9	Shields are free from damage or defects.	X		27	Protective support systems are installed from the top down.	X	
10	Employees are protected from cave-ins when entering and exiting the shield.	X		28	Protective support systems are dismantled from the bottom up.	X	
	When a combination of sloping and shielding is used, the shield must extend 18 inches above the bottom slope of the excavation.	X		29	Excavation is backfilled as the protective system is dismantled.	X	
12	A ladder is provided and secured in trench four or more feet deep: top of ladder extending at least 36 inches above edge of trench.	X		30	Heavy equipment is mounted on wooden mats to distribute weight.	X	
13	A ladder is within 25 feet of all employees working in trench	X		31	Damaged materials or equipment are removed from service.	X	
14	Excavated material is stored at least two feet from the edge of the excavation.	X		32	An emergency response program is in place.	X	
15	Employees are protected from loose material which could fall into trench.	X		33	Life support equipment is in working order.	X	
16	A competent person inspects the trench prior to the start of the shift.	X		34	Note other conditions. Breathing Zone 0.0 – 0.3		
17	The location of trench is marked by banners, barricades or other signals.	X		35	CGI < 2% LEL		
18	Bridges or walkways over excavations are equipped with guardrails and toeboards.	X		36	O_2 21%		

Notes:

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To Reorder Call: 1-800-558-5011

360-F

CHEYENNE BUILDING CONTRACTORS, INC.
QUALITY CONTROL FIELD NOTES
UNIT REMOVAL AT CANNON AFB, NM
CONTRACT NO.: DACA47-95-D-0035

DATE: 2-29-97
TIME: 8:00AM
WEATHER: snow
TEMP.: 25°

UNIT INFORMATION

Unit Owner: U.S. Army Corp of Engineers Phone No.: 505-784-4351

Address: P.O. Box 1580 Albuquerque, NM 87103

Bldg. No.: 375 SWMU No.: 51

Date Installed: 1968 Date Last Used: 2-29-97

Units Association with Facility: oil sump for OWS

Unit Width: 2' Unit Length: 10' Unit Depth: 7'

Unit Contents: oil / sludge Gallons Removed: 400 gal.

Type of Ground Cover: concrete

Petroleum Odors: YES ☒ NO ☐

Visual Characterization of Soil: clean

Evidence of a Spill: YES ☐ NO ☒

Other Potential Sources of Contamination: leaking pipes

ANK CLOSURE WORKSHEET
(COMPLETE AFTER CLOSURE)

Tank Owner 27th CE/CEUP Phone 784-6022
Mailing Address 111 Engineers Way Cannon AFB NM 88103
Tank Address Bldg. 375 swma 51
Contractor Name _____ Phone _____
Address _____
Contractor Name Cheyenne Phone 769-9216
Address PO BOX 418 CLOVIS NM 88101

Tank Closure Date 2/28/97 # of Tanks Closed 1

****

I. Tank Closure Initial Procedures (check measures complied with):
- X Obtain recommended safety equipment for all personnel
- X Contact Fire Marshall or other fire officials
- X Bond or ground equipment
- X Drain product from piping and tank
- X Disconnect, then cap or remove piping
- X Remove all residual product from tank
- X Excavate to tank top
- X Remove all tank fixtures
- X Properly purge or inert tank of all flammable vapors using approved method
- X Continually monitor for explosive vapors while tank is being removed

II. Tank Removal
- X Create vent hole
- X Excavate tank using all safety precautions
- X Clean and inspect tank
- X Check excavation for evidence of leaks and notify EID and other proper authorities if leak is found
- X Check vapor levels in tank before transporting
- X Dispose of tank in approved manner

Tank disposal location In place
City State
How did you assess site for leakage? Field Screening / Lab analysis correlation
Closure report kept at 111 Engineers Way Cannon AFB NM 88103
NOTE: Immediately report any evidence of leakage to EID at 827-0188

I hereby state that the above information is correct

CQC Cheyenne Bldg. Cont. INC. 2-28-97
Signature of owner or contractor performing work

****

FOR EID USE ONLY
Notification Received _____ Approved By _____
Inspection Date _____ Inspector _____

UST BUREAU/EID
1190 St. Francis Drive
Santa Fe, NM 87503

ID. Number | STATE USE ONLY

Date Received

GENERAL INFORMATION

Notification is required by Federal law for all underground tanks that have been used to store regulated substances since January 1, 1974, that are in the ground as of May 8, 1986, or that are brought into use after May 8, 1986. The information requested is required by Section 9002 of the Resource Conservation and Recovery Act (RCRA) as amended.

The primary purpose of this notification program is to locate and evaluate underground tanks that store or have stored petroleum or hazardous substances. It is expected that the information you provide will be based on reasonably available records, or, in the absence of such records, your knowledge, belief, or recollection.

Who Must Notify? Section 9002 of RCRA, as amended, requires that, unless exempted, owners of underground tanks that store regulated substances must notify designated State or local agencies of the existence of their tanks. Owner means—

(a) in the case of an underground storage tank in use on November 8, 1984, or brought into use after that date, any person who owns an underground storage tank used for the storage, use, or dispensing of regulated substances; and

(b) in the case of any underground storage tank in use before November 8, 1984, but no longer in use on that date, any person who owned such tank immediately before the discontinuation of its use.

What Tanks Are Included? Underground storage tank is defined as any one or combination of tanks that (1) is used to contain an accumulation of "regulated substances," and (2) whose volume (including connected underground pipings) is 10% or more beneath the ground. Some examples are underground tanks storing 1. gasoline, used oil, or diesel fuel, and 2. industrial solvents, pesticides, herbicides or fumigants.

What Tanks Are Excluded? Tanks removed from the ground are not subject to notification. Other tanks excluded from notification are:

1. farm or residential tanks of 1,100 gallons or less capacity used for storing motor fuel for noncommercial purposes;
2. tanks used for storing heating oil for consumptive use on the premises where stored;
3. septic tanks;
4. pipeline facilities (including gathering lines) regulated under the Natural Gas Pipeline Safety Act of 1968, or the Hazardous Liquid Pipeline Safety Act of 1979, or which is an intrastate pipeline facility regulated under State laws;
5. surface impoundments, pits, ponds, or lagoons;
6. storm water or wastewater collection systems;
7. flow-through process tanks;
8. liquid traps or associated gathering lines directly related to oil or gas production and gathering operations;
9. storage tanks situated in an underground area (such as a basement, cellar, mine working, drift, shaft, or tunnel) if the storage tank is situated upon or above the surface of the floor.

What Substances Are Covered? The notification requirements apply to underground storage tanks that contain regulated substances. This includes any substance defined as hazardous in Section 101 (14) of the Comprehensive Environmental Response, Compensation and Liability Act of 1980 (CERCLA), with the exception of those substances regulated as hazardous waste under Subtitle C of RCRA. It also includes petroleum, e.g., crude oil or any fraction thereof which is liquid at standard conditions of temperature and pressure (60 degrees Fahrenheit and 14.7 pounds per square inch absolute).

Where To Notify? Completed notification forms should be sent to the address given at the top of this page.

When To Notify? 1. Owners of underground storage tanks in use or that have been taken out of operation after January 1, 1974, but still in the ground, must notify by May 8, 1986. 2. Owners who bring underground storage tanks into use after May 8, 1986, must notify within 30 days of bringing the tanks into use.

Penalties: Any owner who knowingly fails to notify or submits false information shall be subject to a civil penalty not to exceed $10,000 for each tank for which notification is not given or for which false information is submitted.

INSTRUCTIONS

Please type or print in ink all items except "signature" in Section V. This form must be completed for each location containing underground storage tanks. If more than 5 tanks are owned at this location, photocopy the reverse side, and staple continuation sheets to this form.

Indicate number of continuation sheets attached: [ ]

I. OWNERSHIP QUESTIONS

Owner Name (Corporation, Individual, Public Agency, or Other Entity): 27th CE/CEUP

Street Address: 111 Engineers Way

County: Curry

City: Cannon AFB | State: NM | ZIP Code: 88103

Area Code: 505 | Phone Number: 784-6022

Type of Owner (Mark all that apply ☒)

- [ ] Current
- [ ] Former
- [ ] State or Local Govt
- [x] Federal Govt (GSA facility I.D. no.)
- [ ] Private or Corporate
- [ ] Ownership uncertain

II. LOCATION OF TANKS

(If same as Section I, mark box here [ ])

Facility Name or Company Site Identifier, as applicable: Bldg. 375 SWMU 51

Street Address or State Road, as applicable:

County: Cannon AFB NM 88103

City (nearest) | State | ZIP Code

Indicate number of tanks at this location: 1

Mark box here if tank(s) are located on land within an Indian reservation or on other Indian trust lands: [ ]

III. CONTACT PERSON AT TANK LOCATION

Name (If same as Section I, mark box here [ ]): [signature]

Job Title: CQC · Cheyenne

Area Code: 505 | Phone Number: 768-9366 ~~784-3685~~

IV. TYPE OF NOTIFICATION

[ ] Mark box here only if this is an amended or subsequent notification for this location.

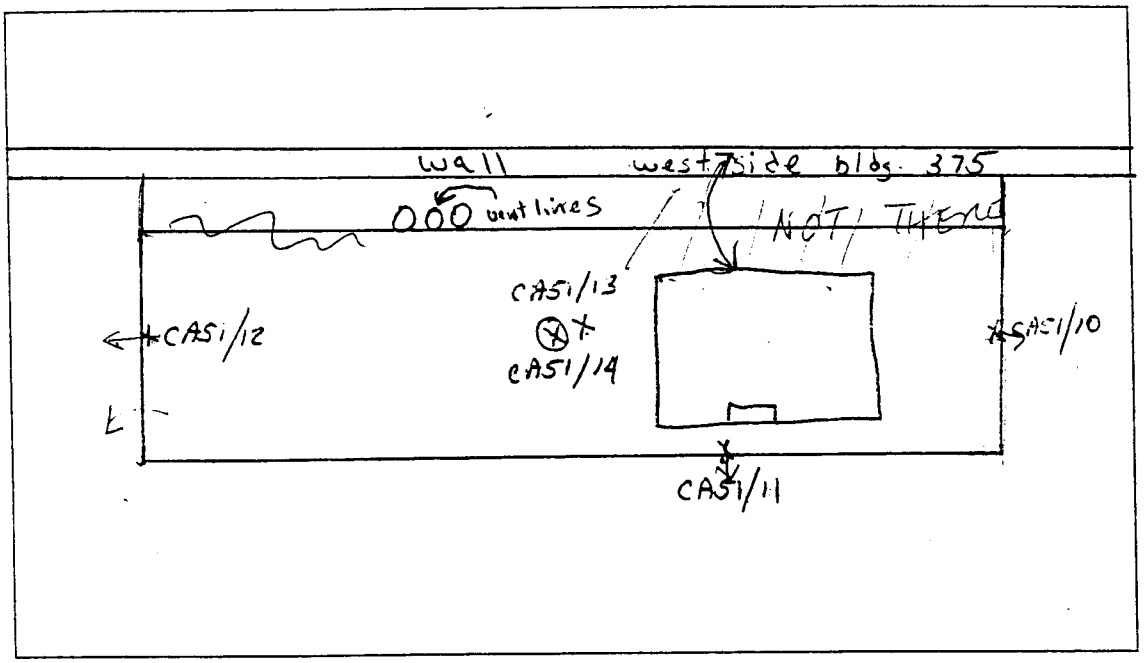
V. CERTIFICATION (Read and sign after completing Section VI.)

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete.

Name and official title of owner or owner's authorized representative | Signature | Date Signed

CONTINUE ON REVERSE SIDE

SKETCH: SWMU 51 Oil Sump



CA51/10 thru CA51/13 : Field Screening

CA51/14 : site confirmatory

SAMPLE INFORMATION

Sample ID No.: CA51/10 + CA51/12

Sample Depth: 6' Sample Matrix: Soil

Sample Location: North + South wall

Sample Purpose: Field Screening

Number of Samples Taken: 2 Preservatives Used: ICE

Sample Method: Immnoassay TPH+BTEX, HS

Headspace Analysis: CA51/10 0.1 PPM + CA51/12 0.0 PPM VOC

Contaminated Action Level: >100 PPM TPH + >50 PPM BTEX

SAMPLE INFORMATION

Sample ID No.: CA51/11, CA51/13

Sample Depth: 8' Sample Matrix: Soil

Sample Location: CA51/11 eastwall, CA51/13 center of oil sump

Sample Purpose: Field Screening

Number of Samples Taken: 2 Preservatives Used: ICE

Sample Method: Immnoassay TPH+BTEX, HS

Headspace Analysis: 0.0 PPM VOC

Contaminated Action Level: >100 PPM TPH + >50 PPM BTEX

SAMPLE INFORMATION

Sample ID No.: CA51/14

Sample Depth: 8' Sample Matrix: Soil

Sample Location: Center of oil sump

Sample Purpose: site confirmatory CLOSURE

Number of Samples Taken: 4 Preservatives Used: ICE

Sample Method: 8015, 8260, 8270, 6010 + 7470 using DI/H Extraction

Headspace Analysis: NT

Contaminated Action Level:

SAMPLE INFORMATION

Sample ID No.: CA51/9

Sample Depth: 5.5' Sample Matrix: Soil

Sample Location: taken from area where contamination was excavated

Sample Purpose: Field Screening

Number of Samples Taken: 1 Preservatives Used: ICE

Sample Method: 8 Immunoassay TPH + BTEX, HS

Headspace Analysis: 1.0 ppm VOC

Contaminated Action Level: >100 ppm TPH + > 50 ppm BTEX

DATA SHEET
ENVIROGARD PETROLEUM FUELS (BTEX) IN SOIL TEST KIT

	OD VALUE
Negative Control	0.58
10 ppm BTEX Calibrator	0.39
50 ppm BTEX Calibrator	0.24
300 ppm BTEX Calibrator	0.10

SAMPLE ID	OD VALUE	INTERPRETATION
CAS1/9-97-0226-1000	0.45	<10 PPM BTEX
CAS1/10-97-0226-1001	0.52	<10 PPM BTEX
CAS1/11-97-0226-1002	0.48	<10 PPM BTEX
CAS1/12-97-0226-1003	0.41	<10 PPM BTEX
CAS1/13-97-0226-1004	0.48	<10 PPM BTEX

DATA SHEET
ENVIROGARD PETROOLEUM FUELS
(TPH) IN SOIL TEST KIT

	OD VALUE
Negative Control	0.69
20 ppm TPH Calibrator	0.44
100 ppm TPH Calibrator	0.23
600 ppm TPH Calibrator	0.09

SAMPLE ID	OD VALUE	INTERPRETATION
CA51/9-97-0226-1000	0.61	<20 PPM TPH
CA51/10-97-0226-1001	0.64	<20 PPM TPH
CA51/11-97-0226-1002	0.57	<20 PPM TPH
CA51/12-97-0226-1003	0.56	<20 PPM TPH
CA51/13-97-0226-1004	0.57	<20 PPM TPH

CHEYENN E
BUILDING CONTRACTORS INC.
P.O. BOX 418
LOVIS, NEW MEXICO 88102-0418
05) 769-9019 • FAX (505) 769-2588

GB98
LIC. NO. 30759

CERTIFICATE OF VAPOR TESTING

DATE 2/24/97

TANK OWNER 27th CE/CEVP PHONE 784-6022

ADDRESS 111 Engineers Way Cannon AFB, NM 88103

CONTRACTOR REMOVING TANK Cheyenne

ADDRESS _____ PHONE _____

CHEYENNE BUILDERS IS CERTIFIED CONTRACTOR IN VAPOR TESTING.

I Troy Moralez HEREBY CERTIFY THAT ~~TANK~~ SWMU 51 AT bldg. 375 IS FREE FROM COMBUSTIBLE MATERIAL.

TROY MORALEZ

MIKE LANDGRAF

CHEYENNE BUILDING CONTRACTORS, INC.
QUALITY CONTROL FIELD NOTES
UNIT REMOVAL AT CANNON AFB, NM
CONTRACT NO.: DACA47-95-D-0035

DATE: 3-14-97
TIME: 8:00Am
WEATHER: mild
TEMP.: 47°

UNIT INFORMATION

Unit Owner: U.S. Army Corp of Engineers Phone No.: 505-784-4351

Address: P.O. Box 1580 Albuquerque, NM 87103

Bldg. No.: 514A SWMU No.: 94A.

Date Installed: 1960 Date Last Used: 1988

Units Association with Facility: sand traps + ones for Concrete wash rack

Unit Width: 3' Unit Length: 7' Unit Depth: 3.5'

Unit Contents: water/sludge Gallons Removed: 5.5 gal

Type of Ground Cover: Concrete

Petroleum Odors: YES ☐ NO ☒

Visual Characterization of Soil: Clean

Evidence of a Spill: YES ☐ NO ☒

Other Potential Sources of Contamination: leaking pipes

NK CLOSURE WORKSHEET
(COMPLETE AFTER CLOSURE)

Tank Owner 27th CE/CEVP Phone 784-6022
Mailing Address 111 Engineers Way Cannon AFB NM 88103
Tank Address SWMU 94
Contractor Name _____ Phone _____
Address _____
Contractor Name Cheyenne Bldg. Cont. INC Phone 769-9019
Address 1712 Sprince St. CLOVIS NM 88101

Tank Closure Date 3-14-97 # of Tanks Closed 1

****

I. Tank Closure Initial Procedures (check measures complied with):
- X Obtain recommended safety equipment for all personnel
- X Contact Fire Marshall or other fire officials
- X Bond or ground equipment
- X Drain product from piping and tank
- X Disconnect, then cap or remove piping
- X Remove all residual product from tank
- X Excavate to tank top
- X Remove all tank fixtures
- X Properly purge or inert tank of all flammable vapors using approved method
- X Continually monitor for explosive vapors while tank is being removed

II. Tank Removal
- X Create vent hole
- X Excavate tank using all safety precautions
- X Clean and inspect tank
- X Check excavation for evidence of leaks and notify EID and other proper authorities if leak is found
- X Check vapor levels in tank before transporting
- X Dispose of tank in approved manner

Tank disposal location Land Fill CLOVIS NM 88101
City State

How did you assess site for leakage? Field Screening / lab analysis
Closure report kept at 111 Engineers Way, Cannon AFB NM 88103
NOTE: Immediately report any evidence of leakage to EID at 827-0188

I hereby state that the above information is correct

CQC Cheyenne
Signature of owner ~~or contractor~~ performing work

****

FOR EID USE ONLY
Notification Received _____ Approved By _____
Inspection Date _____ Inspector _____

Underground Storage Tanks

UST BUREAU/EID
1190 St. Francis Drive
Santa Fe, NM 87503

I.D. Number | STATE USE ONLY

Date Received

GENERAL INFORMATION

Notification is required by Federal law for all underground tanks that have been used to store regulated substances since January 1, 1974, that are in the ground as of May 8, 1986, or that are brought into use after May 8, 1986. The information requested is required by Section 9002 of the Resource Conservation and Recovery Act (RCRA) as amended.

The primary purpose of this notification program is to locate and evaluate underground tanks that store or have stored petroleum or hazardous substances. It is expected that the information you provide will be based on reasonably available records, or, in the absence of such records, your knowledge, belief, or recollection.

Who Must Notify? Section 9002 of RCRA, as amended, requires that, unless exempted, owners of underground tanks that store regulated substances must notify designated State or local agencies of the existence of their tanks. Owner means—

(a) in the case of an underground storage tank in use on November 8, 1984, or brought into use after that date, any person who owns an underground storage tank used for the storage, use, or dispensing of regulated substances; and

(b) in the case of any underground storage tank in use before November 8, 1984, but no longer in use on that date, any person who owned such tank immediately before the discontinuation of its use.

What Tanks Are Included? Underground storage tank is defined as any one or combination of tanks that (1) is used to contain an accumulation of "regulated substances," and (2) whose volume (including connected underground piping) is 10% or more beneath the ground. Some examples are underground tanks storing: 1. gasoline, used oil, or diesel fuel, and 2. industrial solvents, pesticides, herbicides or fumigants.

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1. farm or residential tanks of 1,100 gallons or less capacity used for storing motor fuel for noncommercial purposes;
2. tanks used for storing heating oil for consumptive use on the premises where stored;
3. septic tanks;
4. pipeline facilities (including gathering lines) regulated under the Natural Gas Pipeline Safety Act of 1968, or the Hazardous Liquid Pipeline Safety Act of 1979, or which is an intrastate pipeline facility regulated under State laws;
5. surface impoundments, pits, ponds, or lagoons;
6. storm water or wastewater collection systems;
7. flow-through process tanks;
8. liquid traps or associated gathering lines directly related to oil or gas production and gathering operations;
9. storage tanks situated in an underground area (such as a basement, cellar, mineworking, drift, shaft, or tunnel) if the storage tank is situated upon or above the surface of the floor.

What Substances Are Covered? The notification requirements apply to underground storage tanks that contain regulated substances. This includes any substance defined as hazardous in section 101 (14) of the Comprehensive Environmental Response, Compensation and Liability Act of 1980 (CERCLA), with the exception of those substances regulated as hazardous waste under Subtitle C of RCRA. It also includes petroleum, e.g., crude oil or any fraction thereof which is liquid at standard conditions of temperature and pressure (60 degrees Fahrenheit and 14.7 pounds per square inch absolute).

Where To Notify? Completed notification forms should be sent to the address given at the top of this page.

When To Notify? 1. Owners of underground storage tanks in use or that have been taken out of operation after January 1, 1974, but still in the ground, must notify by May 8, 1986. 2. Owners who bring underground storage tanks into use after May 8, 1986, must notify within 30 days of bringing the tanks into use.

Penalties: Any owner who knowingly fails to notify or submits false information shall be subject to a civil penalty not to exceed $10,000 for each tank for which notification is not given or for which false information is submitted.

INSTRUCTIONS

Please type or print in ink all items except "signature" in Section V. This form must be completed for each location containing underground storage tanks. If more than 5 tanks are owned at this location, photocopy the reverse side, and staple continuation sheets to this form.

Indicate number of continuation sheets attached: [ ]

I. OWNERSHIP OF TANK(S)

Owner Name (Corporation, Individual, Public Agency, or Other Entity): 27th CE/CEVP

Street Address: 111 Engineers Way

County: Curry

City: Cannon AFB | State: NM | ZIP Code: 88103

Area Code: 505 | Phone Number: 784-6022

Type of Owner (Mark all that apply ☒)

- [ ] Current
- [ ] Former
- [ ] State or Local Govt
- [x] Federal Govt (GSA facility, ...)
- [ ] Private or Corporate
- [ ] Ownership unknown

II. LOCATION OF TANK(S)

(If same as Section I, mark box here [ ])

Facility Name or Company Site Identifier, as applicable: Suma 9A

Street Address or State Road, as applicable:

County:

City (nearest): | State: | ZIP Code:

Indicate number of tanks at this location: 1

Mark box here if tank(s) are located on land within an Indian reservation or on other Indian trust lands: [ ]

III. CONTACT PERSON AT TANK LOCATION

Name (If same as Section I, mark box here [ ]): [illegible]

Job Title: CQC Cheyenne

Area Code: 505 | Phone Number: 7699216

IV. TYPE OF NOTIFICATION

[ ] Mark box here only if this is an amended or subsequent notification for this location.

V. CERTIFICATION (Read and sign after completing Section VI.)

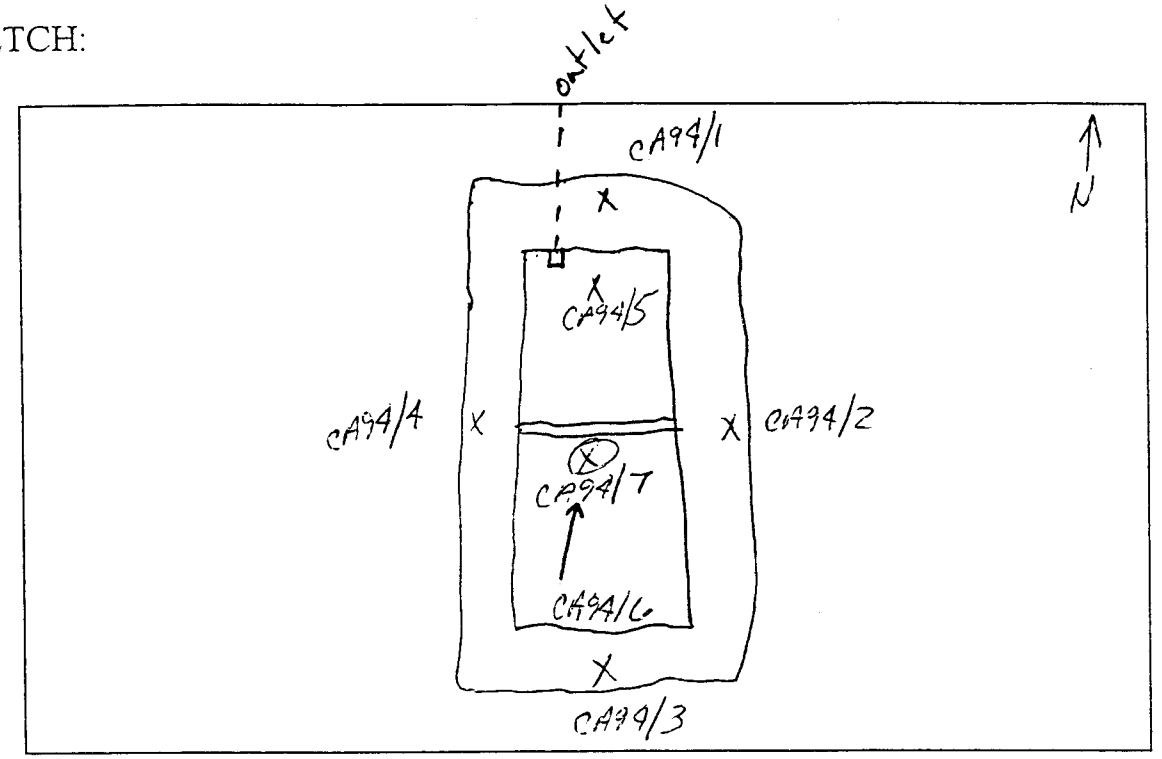
I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete.

Name and official title of owner or owner's authorized representative | Signature | Date Signed

CONTINUE ON REVERSE SIDE

SWMU 94A. (sandtrap)

SKETCH:



CA94/1 thru CA94/6 : Field Screening

CA94/7 : Site Confirmatory

CA94/8 : Excavated Material Confirmatory

SAMPLE INFORMATION

Sample ID No.: CA94/1, CA94/2, CA94/3, CA94/4

Sample Depth: 6' Sample Matrix: Soil

Sample Location: Bottom sides of excavation

Sample Purpose: Field Screening

Number of Samples Taken: 4 Preservatives Used: ICE

Sample Method: Immunoassay TPH + BTEX, Headspace

Headspace Analysis: 0.0 PPM

Contaminated Action Level: >100 PPM TPH + >750 PPM BTEX

SAMPLE INFORMATION

Sample ID No.: CA94/5 + CA94/6

Sample Depth: 6.5' Sample Matrix: Soil

Sample Location: Center of excavation

Sample Purpose: Field Screening

Number of Samples Taken: 2 Preservatives Used: ICE

Sample Method: Immunoassay TPH + BTEX, Headspace

Headspace Analysis: 0.0 PPM

Contaminated Action Level: >100 PPM TPH + >750 PPM BTEX

SAMPLE INFORMATION

Sample ID No.: CA94/7

Sample Depth: 6.5' Sample Matrix: Soil

Sample Location: Center of excavation

Sample Purpose: site Confirmatory Closure

Number of Samples Taken: 1 Preservatives Used: ICE

Sample Method: 8015, 8260, 8270, 6010 + 7470 using 1311 Extraction

Headspace Analysis: NT

Contaminated Action Level:

SAMPLE INFORMATION

Sample ID No.: CA94/8

Sample Depth: composite Sample Matrix: Soil

Sample Location: excavated material stockpile

Sample Purpose: Disposal

Number of Samples Taken: 2 Preservatives Used: ICE

Sample Method: 1311 Extraction, 8015 + 8020

Headspace Analysis: NT

Contaminated Action Level: >100 PPM TPH + 750 PPM BTEX

SAMPLE INFORMATION

Sample ID No.: CA94/1 + CA94/2

Sample Depth: 6' Sample Matrix: Soil

Sample Location: Bottom sides of excavation

Sample Purpose: Field Screening / Lab Analysis Correlation

Number of Samples Taken: 2 Preservatives Used: ICE

Sample Method: 8015 + 8020

Headspace Analysis: 0.0 PPM

Contaminated Action Level: >100 PPM TPH + >50 PPM BTEX

SAMPLE INFORMATION

Sample ID No.: _____

Sample Depth: _____ Sample Matrix: Soil

Sample Location: _____

Sample Purpose: _____

Number of Samples Taken: _____ Preservatives Used: _____

Sample Method: _____

Headspace Analysis: _____

Contaminated Action Level: _____

DATA SHEET
ENVIROGARD PETROLEUM FUELS (TPH) IN SOIL TEST KIT

	OD VALUE
Negative Control	0.79
20 ppm BTEX Calibrator	0.55
100 ppm BTEX Calibrator	0.30
600 ppm BTEX Calibrator	0.16

SAMPLE ID	OD VALUE	INTERPRETATION
CA94/1-97-0314-1130	0.78	< 20ppm TPH
CA94/2-97-0314-1131	0.75	< 20 ppm TPH
CA94/3-97-0314-1132	0.76	< 20 ppm TPH
CA94/4-97-0314-1133	0.80	ND
CA94/5-97-0314-1134	0.80	ND
CA94/6-97-0314-1135	0.79	ND

DATA SHEET
ENVIROGARD PETROLEUM FUELS (BTEX) IN SOIL TEST KIT

	OD VALUE
Negative Control	0.75
10 ppm BTEX Calibrator	0.52
50 ppm BTEX Calibrator	0.34
300 ppm BTEX Calibrator	0.15

SAMPLE ID	OD VALUE	INTERPRETATION
CA94/1-97-0314-1130	0.66	< 10 PPM BTEX
CA94/2-97-0314-1131	0.74	< 10 PPM BTEX
CA94/3-97-0314-1132	0.75	ND
CA94/4-97-0314-1133	0.78	ND
CA94/5-97-0314-1134	0.80	ND
CA94/6-97-0314-1135	0.75	ND

ND NON - Detect

CHEYENN
BUILDING CONTRACTORS INC.

P.O. BOX 418
CLOVIS, NEW MEXICO 88102-0418
05) 769-9019 • FAX (505) 769-2588

GB98
LIC. NO. 30759

CERTIFICATE OF VAPOR TESTING

DATE 3-14-97

TANK OWNER 27th CE/CEUP PHONE 784-6022

ADDRESS 111 Engineers Way, Cannon AFB NM 88103

CONTRACTOR REMOVING TANK Cheyenne

ADDRESS P.O. BOX 418 PHONE 769-9019

CHEYENNE BUILDERS IS CERTIFIED CONTRACTOR IN VAPOR TESTING.

I Troy Moralez HEREBY CERTIFY THAT ~~TANK~~ Swmu 94A AT Concrete wash rack IS FREE FROM COMBUSTIBLE MATERIAL.

TROY MORALEZ

MIKE LANDGRAF

EXCAVATION CHECK LIST

Company: Cheyenne	Date: 3-14-97
Site Location/Description: SWMU 94A	Time: 11:00 ☒ AM ☐ PM
Inspected by: Troy Morales	Project Number: DACA47-95-D-0035

INSTRUCTIONS: Read the ITEM NUMBER and DESCRIPTION to determine the current conditions of this excavation site. Mark an (X) in the YES column if description is present and has been satisfied. Mark an (X) in the NO column if the item has not been completed. Mark a line (–) across the YES and NO columns if the ITEM does not apply. Use the NOTES section to list the ITEM NUMBER. Write any comments that apply to the ITEM NUMBER.

Item No.	DESCRIPTION	YES	NO	Item No.	DESCRIPTION	YES	NO
1	The utility company has been notified of excavation work schedule.	X		19	Employees working below other employees in trench are protected from hazards.	X	
2	Location of underground utility lines are identified.	X		20	The trench is free of standing water.	X	
3	Hazardous objects have been removed from excavation area or blocked securely.	X		21	The proper water removal equipment is operating under guidance of competent person.	X	
4	Soil type is classified.	X		22	Diversion ditches or dikes are in place to prevent surface water from entering trench.	X	
5	Sloping and Benching system is designed per OSHA requirements.	X		23	The trench is inspected by competent person following any amount of rain.	X	
6	Timber shoring system is designed per OSHA requirements.	X		24	Employees are wearing proper safety equipment.	X	
7	Aluminum Hydraulic shoring system is designed per OSHA requirements.	X		25	Test air quality in trench if a hazardous atmosphere is suspected.	X	
8	Shielding system is designed per OSHA requirements.	X		26	A ventilation or respiratory protection is in use.	X	
9	Shields are free from damage or defects.	X		27	Protective support systems are installed from the top down.	X	
10	Employees are protected from cave-ins when entering and exiting the shield.	X		28	Protective support systems are dismantled from the bottom up.	X	
	When a combination of sloping and shielding is used, the shield must extend 18 inches above the bottom slope of the excavation.	X		29	Excavation is backfilled as the protective system is dismantled.	X	
12	A ladder is provided and secured in trench four or more feet deep; top of ladder extending at least 36 inches above edge of trench.	X		30	Heavy equipment is mounted on wooden mats to distribute weight.	X	
13	A ladder is within 25 feet of all employees working in trench.	X		31	Damaged materials or equipment are removed from service.	X	
14	Excavated material is stored at least two feet from the edge of the excavation.	X		32	An emergency response program is in place.	X	
15	Employees are protected from loose material which could fall into trench.	X		33	Life support equipment is in working order.	X	
16	A competent person inspects the trench prior to the start of the shift.	X		34	Note other conditions. O2 19.5%		
17	The location of trench is marked by banners, barricades or other signals.	X		35	<2% LEL VOC 0.0PPM		
18	Bridges or walkways over excavations are equipped with guardrails and toeboards.			36			

Notes:

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360-F

Sandtrap 1-6

CHEYENNE BUILDING CONTRACTORS, INC.
QUALITY CONTROL FIELD NOTES
UNIT REMOVAL AT CANNON AFB, NM
CONTRACT NO.: DACA47-95-D-0035

DATE: 3-25-97
TIME: 8:00
WEATHER: Breezy
TEMP.: 46°

UNIT INFORMATION

Unit Owner: U.S. Army Corp of Engineers Phone No.: 505-784-4351

Address: P.O. Box 1580 Albuquerque, NM 87103

Bldg. No.: 51AA SWMU No.: 94 B

Date Installed: 1960 Date Last Used: 1988

Units Association with Facility: Solid waste mangement unit for vehicle wash rack

Unit Width: 5'-4" Unit Length: 10'-2" Unit Depth: 6'

Unit Contents: Sludge / Cont. H2O Gallons Removed: 400 cont H2O/sludge

Type of Ground Cover: grass

Petroleum Odors: YES ☐ NO ☒

Visual Characterization of Soil: Clean

Evidence of a Spill: YES ☐ NO ☒

Other Potential Sources of Contamination: leaking pipes

ANK CLOSURE WORKSHEET
(COMPLETE AFTER CLOSURE)

Tank Owner 27th CE/CEVP Phone 784-6022
Mailing Address 111 Engineers Way, Cannon AFB, NM 88103
Tank Address SWMU 94 B
Contractor Name _____ Phone _____
Address _____
Contractor Name Cheyenne Bldg. Cont. Phone 769-9019
Address 1712 Sprinke St Clovis NM 88101

Tank Closure Date 3-25-97 # of Tanks Closed 1

****

I. Tank Closure Initial Procedures (check measures complied with):
- X Obtain recommended safety equipment for all personnel
- X Contact Fire Marshall or other fire officials
- X Bond or ground equipment
- X Drain product from piping and tank
- X Disconnect, then cap or remove piping
- X Remove all residual product from tank
- X Excavate to tank top
- X Remove all tank fixtures
- X Properly purge or inert tank of all flammable vapors using approved method
- X Continually monitor for explosive vapors while tank is being removed

II. Tank Removal
- X Create vent hole
- X Excavate tank using all safety precautions
- X Clean and inspect tank
- X Check excavation for evidence of leaks and notify EID and other proper authorities if leak is found
- X Check vapor levels in tank before transporting
- X Dispose of tank in approved manner

Tank disposal location Landfill Clovis NM 88101
City State

How did you assess site for leakage? Field Screening / lab analysis correlation
Closure report kept at 111 Engineers Way, Cannon AFB NM 88103
NOTE: Immediately report any evidence of leakage to EID at 827-0188

I hereby state that the above information is correct

[signature] CAC Cheyenne
Signature of ~~owner~~ or contractor performing work

****

FOR EID USE ONLY
Notification Received _____ Approved By _____
Inspection Date _____ Inspector _____

Underground Storage Tanks

UST BUREAU/EID
1190 St. Francis Drive
Santa Fe, NM 87503

I.D. Number

STATE USE ONLY

Date Received

GENERAL INFORMATION

Notification is required by Federal law for all underground tanks that have been used to store regulated substances since January 1, 1974, that are in the ground as of May 8, 1986, or that are brought into use after May 8, 1986. The information requested is required by Section 9002 of the Resources Conservation and Recovery Act (RCRA), as amended.

The primary purpose of this notification program is to locate and evaluate underground tanks that store or have stored petroleum or hazardous substances. It is expected that the information you provide will be based on reasonably available records, or, in the absence of such records, your knowledge, belief, or recollection.

Who Must Notify? Section 9002 of RCRA, as amended, requires that, unless exempted, owners of underground tanks that store regulated substances must notify designated State or local agencies of the existence of their tanks. Owner means—

(a) in the case of an underground storage tank in use on November 8, 1984, or brought into use after that date, any person who owns an underground storage tank used for the storage, use, or dispensing of regulated substances, and

(b) in the case of any underground storage tank in use before November 8, 1984, but no longer in use on that date, any person who owned such tank immediately before the discontinuation of its use.

What Tanks Are Included? Underground storage tank is defined as any one or combination of tanks that (1) is used to contain an accumulation of "regulated substances," and (2) whose volume (including connected underground piping) is 10% or more beneath the ground. Some examples are underground tanks storing: 1. gasoline, used oil, or diesel fuel, and 2. industrial solvents, pesticides, herbicides or fumigants.

What Tanks Are Excluded? Tanks removed from the ground are not subject to notification. Other tanks excluded from notification are:

1. farm or residential tanks of 1,100 gallons or less capacity used for storing motor fuel for noncommercial purposes;
2. tanks used for storing heating oil for consumptive use on the premises where stored;
3. septic tanks;
4. pipeline facilities (including gathering lines) regulated under the Natural Gas Pipeline Safety Act of 1968, or the Hazardous Liquid Pipeline Safety Act of 1979, or which is an intrastate pipeline facility regulated under State laws;
5. surface impoundments, pits, ponds, or lagoons;
6. storm water or wastewater collection systems;
7. flow-through process tanks;
8. liquid traps or associated gathering lines directly related to oil or gas production and gathering operations;
9. storage tanks situated in an underground area (such as a basement, cellar, mine working, drift, shaft, or tunnel) if the storage tank is situated upon or above the surface of the floor.

What Substances Are Covered? The notification requirements apply to underground storage tanks that contain regulated substances. This includes any substance defined as hazardous in Section 101 (14) of the Comprehensive Environmental Response, Compensation and Liability Act of 1980 (CERCLA), with the exception of those substances regulated as hazardous waste under Subtitle C of RCRA. It also includes petroleum, e.g., crude oil or any fraction thereof which is liquid at standard conditions of temperature and pressure (60 degrees Fahrenheit and 14.7 pounds per square inch absolute).

Where To Notify? Completed notification forms should be sent to the address given at the top of this page.

When To Notify? 1. Owners of underground storage tanks in use or that have been taken out of operation after January 1, 1974, but still in the ground, must notify by May 8, 1986. 2. Owners who bring underground storage tanks into use after May 8, 1986, must notify within 30 days of bringing the tanks into use.

Penalties: Any owner who knowingly fails to notify or submits false information shall be subject to a civil penalty not to exceed $10,000 for each tank for which notification is not given or for which false information is submitted.

INSTRUCTIONS

Please type or print in ink all items except "signature" in Section V. This form must be completed for each location containing underground storage tanks. If more than 5 tanks are owned at this location, photocopy the reverse side, and staple continuation sheets to this form.

Indicate number of continuation sheets attached: [ ]

I. OWNERSHIP OF TANK(S)

Owner Name (Corporation, Individual, Public Agency, or Other Entity): 27th CE/CEVP

Street Address: 111 Engineers Way

County: Curry

City: Cannon AFB State: NM ZIP Code: 88103

Area Code: 505 Phone Number: 784-6022

Type of Owner (Mark all that apply ☒)

- [ ] Current
- [ ] Former
- [ ] State or Local Govt
- [x] Federal Govt (GSA facility I.D. no. _____)
- [ ] Private or Corporate
- [ ] Ownership uncertain

II. LOCATION OF TANK(S)

(If same as Section I, mark box here [ ])

Facility Name or Company Site Identifier, as applicable: Summit 94B

Street Address or State Road, as applicable:

County:

City (nearest): State: ZIP Code:

Indicate number of tanks at this location: 1

Mark box here if tank(s) are located on land within an Indian reservation or on other Indian trust lands [ ]

III. CONTACT PERSON AT TANK LOCATION

Name (If same as Section I, mark box here [ ]): Troy Morales

Job Title: CQC Cheyenne

Area Code: 505 Phone Number: 769-9216

IV. TYPE OF NOTIFICATION

[ ] Mark box here only if this is an amended or subsequent notification for this location.

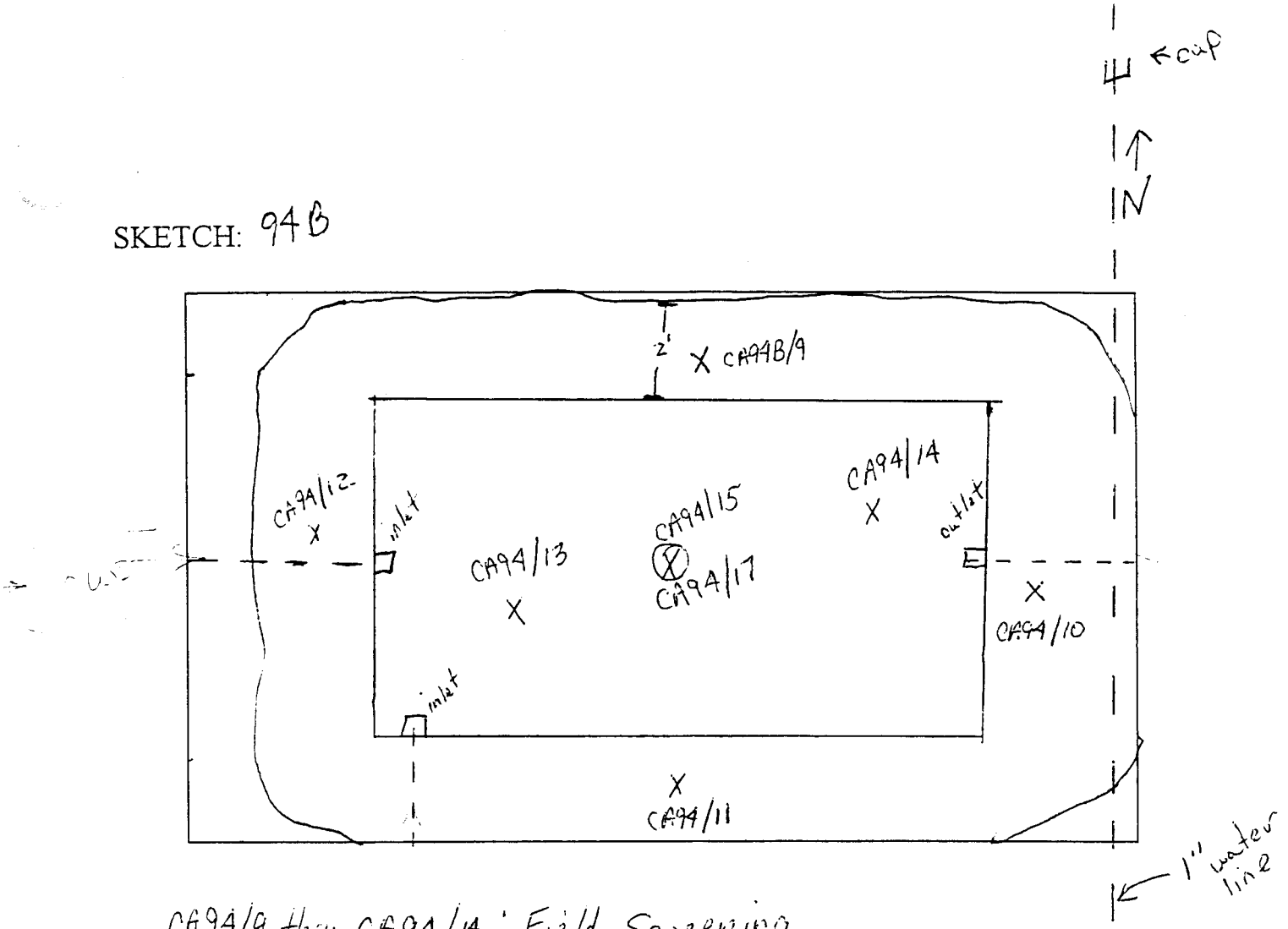
V. CERTIFICATION (Read and sign after completing Section VI.)

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete.

Name and official title of owner or owner's authorized representative	Signature	Date Signed

CONTINUE ON REVERSE SIDE

SKETCH: 94B



CA94/9 thru CA94/14 : Field Screening

CA94/15 : Site Confirmatory

CA94/16 : excavated material Confirmatory

CA94/17 : Site QC

SAMPLE INFORMATION

Sample ID No.: CA94/9, CA94/10, CA94/11, CA94/12

Sample Depth: 8.5' Sample Matrix: Soil

Sample Location: bottom sides of excavation

Sample Purpose: Field Screening

Number of Samples Taken: 4 Preservatives Used: ICE

Sample Method: Immunoassay TPH, BTEX, Headspace

Headspace Analysis: 0.0 ppm VOC

Contaminated Action Level: >100 ppm TPH, >50 ppm BTEX

SAMPLE INFORMATION

Sample ID No.: CA94/13 + CA94/14

Sample Depth: 9' Sample Matrix: Soil

Sample Location: Center of excavation

Sample Purpose: Field Screening

Number of Samples Taken: 2 Preservatives Used: ICE

Sample Method: Immunoassay TPH; BTEX, Headspace

Headspace Analysis: 0.0 ppm VOC

Contaminated Action Level: >100 ppm TPH + >50 ppm BTEX

SAMPLE INFORMATION

Sample ID No.: CA94/15 + CA94/17

Sample Depth: 9' Sample Matrix: Soil

Sample Location: Center of excavation

Sample Purpose: site confirmatory + site QC

Number of Samples Taken: 8 Preservatives Used: ICE

Sample Method: 6010+7470 using 1311 Extraction, 8015, 8270, 8260

Headspace Analysis: NT

Contaminated Action Level: NA

SAMPLE INFORMATION

Sample ID No.: CA94/16

Sample Depth: Composite Sample Matrix: Soil

Sample Location: Excavated material stockpile

Sample Purpose: Disposal

Number of Samples Taken: 2 Preservatives Used: ICE

Sample Method: 1311, 8015 + 8020

Headspace Analysis: NT

Contaminated Action Level: >100 PPM TPH + >50 PPM BTEX

SAMPLE INFORMATION

Sample ID No.: CA94|10-97-0325-1101

Sample Depth: 8.5' Sample Matrix: Soil

Sample Location: east wall

Sample Purpose: Field Screening / Lab analysis correlation

Number of Samples Taken: 1 Preservatives Used: ICE

Sample Method: 8015 + 8020

Headspace Analysis:

Contaminated Action Level: >100 ppm TPH + >50 ppm BTEX

SAMPLE INFORMATION

Sample ID No.:

Sample Depth: Sample Matrix: Soil

Sample Location:

Sample Purpose:

Number of Samples Taken: Preservatives Used:

Sample Method:

Headspace Analysis:

Contaminated Action Level:

DATA SHEET
ENVIROGARD PETROLEUM FUELS (BTEX) IN SOIL TEST KIT

	OD VALUE
Negative Control	0.71
10 ppm BTEX Calibrator	0.53
50 ppm BTEX Calibrator	0.40
300 ppm BTEX Calibrator	0.19

SAMPLE ID	OD VALUE	INTERPRETATION
CA94/9-97-0325-1100	0.67	< 10 PPM BTEX
CA94/10-97-0325-1101	0.70	< 10 PPM BTEX
CA94/11-97-0325-1102	0.69	< 10 PPM BTEX
CA94/12-97-0325-1103	0.71	ND
CA94/13-97-0325-1104	0.73	ND
CA94/14-97-0325-1105	0.68	< 10 PPM BTEX

DATA SHEET
ENVIROGARD PETROOLEUM FUELS
(TPH) IN SOIL TEST KIT

	OD VALUE
Negative Control	0.82
20 ppm TPH Calibrator	0.60
100 ppm TPH Calibrator	0.31
600 ppm TPH Calibrator	0.15

SAMPLE ID	OD VALUE	INTERPRETATION
CA94/9-97-0325-1100	0.83	ND
CA94/10-97-0325-1101	0.78	<20 PPM TPH
CA94/11-97-0325-1102	0.84	ND
CA94/12-97-0325-1103	0.76	<20 PPM TPH
CA94/13-97-0325-1104	0.78	<20 PPM TPH
CA94/14-97-0325-1105	0.82	ND

CHEYENN
BUILDING CONTRACTORS INC.

P.O. BOX 418
CLOVIS, NEW MEXICO 88102-0418
'5) 769-9019 • FAX (505) 769-2588

GB98
LIC. NO. 30759

CERTIFICATE OF VAPOR TESTING

DATE 3-25-97

TANK OWNER 27th CE / CEVP PHONE 784-6022

ADDRESS 111 Engineers Way, Cannon AFB NM 88103

CONTRACTOR REMOVING TANK Cheyenne

ADDRESS _____ PHONE _____

CHEYENNE BUILDERS IS CERTIFIED CONTRACTOR IN VAPOR TESTING.

I Troy Moralez HEREBY CERTIFY THAT ~~TANK~~ unit AT SWMU 94B IS FREE FROM COMBUSTIBLE MATERIAL.

TROY MORALEZ

MIKE LANDGRAF

Company Cheyenne	Date 3-25-97
Site Location/Description Swmu 94B	Time 9:00 ☒ AM ☐ PM
Inspected by Troy Morales	Project Number DACA47-95-D-0035

INSTRUCTIONS: Read the ITEM NUMBER and DESCRIPTION to determine the current conditions of this excavation site. Mark an (X) in the YES column if description is present and has been satisfied. Mark an (X) in the NO column if the item has not been completed. Mark a line (–) across the YES and NO columns if the ITEM does not apply. Use the NOTES section to list the ITEM NUMBER. Write any comments that apply to the ITEM NUMBER.

Item Number	DESCRIPTION	YES	NO	Item Number	DESCRIPTION	YES	NO
1	The utility company has been notified of excavation work schedule.	✓		19	Employees working below other employees in trench are protected from hazards.	✓	
2	Location of underground utility lines are identified.	✓		20	The trench is free of standing water.	✓	
3	Hazardous objects have been removed from excavation area or blocked securely.	✓		21	The proper water removal equipment is operating under guidance of competent person.	✓	
4	Soil type is classified.	✓		22	Diversion ditches or dikes are in place to prevent surface water from entering trench.	✓	
5	Sloping and Benching system is designed per OSHA requirements.	✓		23	The trench is inspected by competent person following any amount of rain.	✓	
6	Timber shoring system is designed per OSHA requirements.	✓		24	Employees are wearing proper safety equipment.	✓	
7	Aluminum Hydraulic shoring system is designed per OSHA requirements.	✓		25	Test air quality in trench if a hazardous atmosphere is suspected.	✓	
8	Shielding system is designed per OSHA requirements.	✓		26	A ventilation or respiratory protection is in use.	✓	
9	Shields are free from damage or defects.	✓		27	Protective support systems are installed from the top down.	✓	
10	Employees are protected from cave-ins when entering and exiting the shield.	✓		28	Protective support systems are dismantled from the bottom up.	✓	
11	When a combination of sloping and shielding is used, the shield must extend 18 inches above the bottom slope of the excavation.	✓		29	Excavation is backfilled as the protective system is dismantled.	✓	
12	A ladder is provided and secured in trench four or more feet deep; top of ladder extending at least 36 inches above edge of trench.	✓		30	Heavy equipment is mounted on wooden mats to distribute weight.	✓	
13	A ladder is within 25 feet of all employees working in trench	✓		31	Damaged materials or equipment are removed from service.	✓	
14	Excavated material is stored at least two feet from the edge of the excavation.	✓		32	An emergency response program is in place.	✓	
15	Employees are protected from loose material which could fall into trench.	✓		33	Life support equipment is in working order.	✓	
16	A competent person inspects the trench prior to the start of the shift.	✓		34	Note other conditions. O_2 19.5		
17	The location of trench is marked by banners, barricades or other signals.	✓		35	VOC 0.0 PPM CGI <2% LEL		
18	Bridges or walkways over excavations are equipped with guardrails and toeboards.	✓		36			

Notes:

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OWS

CHEYENNE BUILDING CONTRACTORS, INC.
QUALITY CONTROL FIELD NOTES
UNIT REMOVAL AT CANNON AFB, NM
CONTRACT NO.: DACA47-95-D-0035

DATE: 4-2-97
TIME: 8:00AM
WEATHER: Cloudy
TEMP.: 59°

UNIT INFORMATION

Unit Owner: U.S. Army Corp of Engineers Phone No.: 505-784-4351

Address: P.O. Box 1580 Albuquerque, NM 87103

Bldg. No.: 5144 SWMU No.: 94C

Date Installed: 1960 Date Last Used: 1988

Units Association with Facility: Sand trap

Unit Width: 3' Unit Length: 7' Unit Depth: 3.5'

Unit Contents: Mud Gallons Removed: ~~0~~

Type of Ground Cover: Concrete Cap

Petroleum Odors: YES ☒ NO ☐

Visual Characterization of Soil: Lateral limits of contamination are unknown

Evidence of a Spill: YES ☒ NO ☐

Other Potential Sources of Contamination: Soil under and around sand trap was saturated with water.

.NK CLOSURE WORKSHEET
(COMPLETE AFTER CLOSURE)

Tank Owner 27th CE/CEVP Phone 784-6022
Mailing Address 111 Engineers Way Cannon AFB, NM 88103
Tank Address SWMU 94 Bldg 5144
Contractor Name Cheyenne Bldg Cont. INC Phone 769-9019
Address P.O. BOX 418 CLOVIS NM 88101
Contractor Name _____ Phone _____
Address _____

Tank Closure Date 4-2-97 # of Tanks Closed 1

I. Tank Closure Initial Procedures (check measures complied with):
- X Obtain recommended safety equipment for all personnel
- X Contact Fire Marshall or other fire officials
- X Bond or ground equipment
- X Drain product from piping and tank
- X Disconnect, then cap or remove piping
- X Remove all residual product from tank
- X Excavate to tank top
- X Remove all tank fixtures
- X Properly purge or inert tank of all flammable vapors using approved method
- X Continually monitor for explosive vapors while tank is being removed

II. Tank Removal
- X Create vent hole
- X Excavate tank using all safety precautions
- X Clean and inspect tank
- X Check excavation for evidence of leaks and notify EID and other proper authorities if leak is found
- X Check vapor levels in tank before transporting
- X Dispose of tank in approved manner

Tank disposal location Landfill CLOVIS NM
City State

How did you assess site for leakage? Field Screening / lab analysis correlation
Closure report kept at 111 Engineers Way, Cannon AFB NM 88103
NOTE: Immediately report any evidence of leakage to EID at 827-0188

I hereby state that the above information is correct

[signature] Cal Cheyenne
Signature of ~~owner~~ or contractor performing work

FOR EID USE ONLY
Notification Received _____ Approved By _____
Inspection Date _____ Inspector _____

Underground Storage Tanks

UST BUREAU/EID
1190 St. Francis Drive
Santa Fe, NM 87503

I.D. Number

STATE USE ONLY

Date Received

GENERAL INFORMATION

Notification is required by Federal law for all underground tanks that have been used to store regulated substances since January 1, 1974, that are in the ground as of May 8, 1986, or that are brought into use after May 8, 1986. The information requested is required by Section 9002 of the Resource Conservation and Recovery Act (RCRA), as amended.

The primary purpose of this notification program is to locate and evaluate underground tanks that store or have stored petroleum or hazardous substances. It is expected that the information you provide will be based on reasonably available records or, in the absence of such records, your knowledge, belief, or recollection.

Who Must Notify? Section 9002 of RCRA, as amended, requires that, unless exempted, owners of underground tanks that store regulated substances must notify designated State or local agencies of the existence of their tanks. Owner means—

(a) in the case of an underground storage tank in use on November 8, 1984, or brought into use after that date, any person who owns an underground storage tank used for the storage, use, or dispensing of regulated substances; and

(b) in the case of any underground storage tank in use before November 8, 1984, but no longer in use on that date, any person who owned such tank immediately before the discontinuation of its use.

What Tanks Are Included? Underground storage tank is defined as any one or combination of tanks that (1) is used to contain an accumulation of "regulated substances," and (2) whose volume (including connected underground piping) is 10% or more beneath the ground. Some examples are underground tanks storing 1. gasoline, used oil, or diesel fuel, and 2. industrial solvents, pesticides, herbicides or fumigants.

What Tanks Are Excluded? Tanks removed from the ground are not subject to notification. Other tanks excluded from notification are:

1. farm or residential tanks of 1,100 gallons or less capacity used for storing motor fuel for noncommercial purposes;
2. tanks used for storing heating oil for consumptive use on the premises where stored;
3. septic tanks;
4. pipeline facilities (including gathering lines) regulated under the Natural Gas Pipeline Safety Act of 1968, or the Hazardous Liquid Pipeline Safety Act of 1979, or which is an intrastate pipeline facility regulated under State laws;
5. surface impoundments, pits, ponds, or lagoons;
6. storm water or wastewater collection systems;
7. flow-through process tanks;
8. liquid traps or associated gathering lines directly related to oil or gas production and gathering operations;
9. storage tanks situated in an underground area (such as a basement, cellar, mineworking, drift, shaft, or tunnel) if the storage tank is situated upon or above the surface of the floor.

What Substances Are Covered? The notification requirements apply to underground storage tanks that contain regulated substances. This includes any substance defined as hazardous in Section 101 (14) of the Comprehensive Environmental Response, Compensation and Liability Act of 1980 (CERCLA), with the exception of those substances regulated as hazardous waste under Subtitle C of RCRA. It also includes petroleum, e.g., crude oil or any fraction thereof which is liquid at standard conditions of temperature and pressure (60 degrees Fahrenheit and 14.7 pounds per square inch absolute).

Where To Notify? Completed notification forms should be sent to the address given at the top of this page.

When To Notify? 1. Owners of underground storage tanks in use or that have not been taken out of operation after January 1, 1974, but still in the ground, must notify by May 8, 1986. 2. Owners who bring underground storage tanks into use after May 8, 1986, must notify within 30 days of bringing the tanks into use.

Penalties: Any owner who knowingly fails to notify or submits false information shall be subject to a civil penalty not to exceed $10,000 for each tank for which notification is not given or for which false information is submitted.

INSTRUCTIONS

Please type or print in ink all items except "signature" in Section V. This form must by completed for each location containing underground storage tanks. If more than 5 tanks are owned at this location, photocopy the reverse side, and staple continuation sheets to this form.

Indicate number of continuation sheets attached [ ]

I. OWNERSHIP OF TANK(S)

Owner Name (Corporation, Individual, Public Agency, or Other Entity): 27th CE/CEVP

Street Address: 111 Engineers Way

County: Cannon AFB NM

City: Curry | State | ZIP Code

Area Code: 505 | Phone Number: 784-6022

Type of Owner (Mark all that apply ☒)

- [ ] Current
- [ ] Former
- [ ] State or Local Govt
- [x] Federal Govt (GSA facility I.D. no. _____)
- [ ] Private or Corporate
- [ ] Ownership uncertain

II. LOCATION OF TANK(S)

(If same as Section I, mark box here [ ])

Facility Name or Company Site Identifier, as applicable: Bldg. 514A SWMU 94C

Street Address or State Road, as applicable

County

City (nearest) | State | ZIP Code

Indicate number of tanks at this location [ ]

Mark box here if tank(s) are located on land within an Indian reservation or on other Indian trust lands [ ]

III. CONTACT PERSON AT TANK LOCATION

Name (If same as Section I, mark box here [ ]): [illegible]

Job Title: CQC

Area Code: Cheyenne (505) | Phone Number: 784-6022

IV. TYPE OF NOTIFICATION

[ ] Mark box here only if this is an amended or subsequent notification for this location.

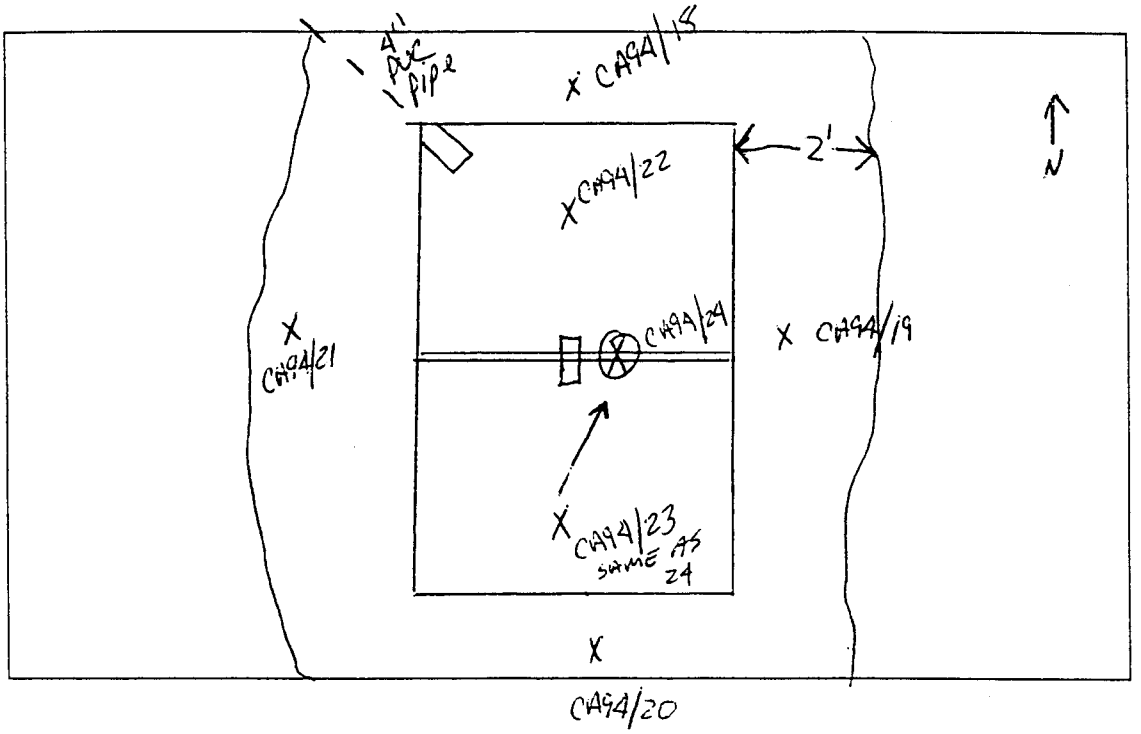
V. CERTIFICATION (Read and sign after completing Section VI.)

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete.

Name and official title of owner or owner's authorized representative | Signature | Date Signed

CONTINUE ON REVERSE SIDE

SKETCH: Samu 94C



CA94/18 thru CA94/23 : Field Screening

CA94/24 : Site Confirmatory

CA94/25 : Excavated material confirmatory

CA94/26 : Excavated material confirmatory

SAMPLE INFORMATION

Sample ID No.: CA94/18, CA94/19, CA94/20, CA94/21

Sample Depth: 6' Sample Matrix: Soil

Sample Location: sides of excavation

Sample Purpose: Field Screening

Number of Samples Taken: 4 Preservatives Used: ICE

Sample Method: Immnoassay TPH+BTEX, HS

Headspace Analysis: 0.0 PPM VOC

Contaminated Action Level: >100 PPM TPH & >50 PPM BTEX

SAMPLE INFORMATION

Sample ID No.: CA94/22 & CA94/23

Sample Depth: 6.5' Sample Matrix: Soil

Sample Location: Center of excavation

Sample Purpose: Field Screening

Number of Samples Taken: 2 Preservatives Used: ICE

Sample Method: Immnoassay TPH + BTEX, HS

Headspace Analysis: 0.0 PPM VOC

Contaminated Action Level: >100 PPM TPH & >50 PPM BTEX

SAMPLE INFORMATION

Sample ID No.: CA94/24

Sample Depth: 6.5' Sample Matrix: Soil

Sample Location: Center of excavation

Sample Purpose: site Confirmatory Closure

Number of Samples Taken: 4 Preservatives Used: ICE

Sample Method: 8015, 8260, 8270, 6010 + 7470 using 1311

Headspace Analysis: NT

Contaminated Action Level:

SAMPLE INFORMATION

Sample ID No.: CA94/25

Sample Depth: Composite Sample Matrix: Soil

Sample Location: excavated material stockpile

Sample Purpose: disposal

Number of Samples Taken: 2 Preservatives Used: ICE

Sample Method: 8015, 8020, 1311

Headspace Analysis: ~~0~~ NT

Contaminated Action Level: 7100 PPM TPH + 750 PPM BTEX

SAMPLE INFORMATION

Sample ID No.: CA94/19 + CA94/23

Sample Depth: 6' + 6.5' Sample Matrix: Soil

Sample Location: side of excavation + center of excavation

Sample Purpose: Correlation

Number of Samples Taken: 2 Preservatives Used: ICE

Sample Method: 8015, 8020

Headspace Analysis: NT

Contaminated Action Level: >100 ppm TPH + 750 ppm BTEX

SAMPLE INFORMATION

Sample ID No.: CA94/26-97-0409-1100

Sample Depth: composite Sample Matrix: Soil

Sample Location: Excavated material below bldg. slab

Sample Purpose: disposal

Number of Samples Taken: 2 Preservatives Used: ICE

Sample Method: TPH + BTEX, 1311 metals

Headspace Analysis: NT

Contaminated Action Level: >100 ppm TPH + 750 ppm BTEX

DATA SHEET
ENVIROGARD PETROLEUM FUELS (BTEX) IN SOIL TEST KIT

	OD VALUE
Negative Control	0.99
10 ppm BTEX Calibrator	0.74
50 ppm BTEX Calibrator	0.50
300 ppm BTEX Calibrator	0.21

SAMPLE ID	OD VALUE	INTERPRETATION
CA94/18-97-0402-1100	0.87	< 10 PPM BTEX
CA94/19-97-0402-1101	0.98	< 10 PPM BTEX
CA94/20-97-0402-1102	0.95	< 10 PPM BTEX
CA94/21-97-0402-1103	0.93	< 10 PPM BTEX
CA94/22-97-0402-1104	0.97	< 10 PPM BTEX
CA94/23-97-0402-1105	0.95	< 10 PPM BTEX

DATA SHEET
ENVIROGARD PETROOLEUM FUELS
(TPH) IN SOIL TEST KIT

	OD VALUE
Negative Control	1.00
20 ppm TPH Calibrator	0.80
100 ppm TPH Calibrator	0.46
600 ppm TPH Calibrator	0.27

SAMPLE ID	OD VALUE	INTERPRETATION
CA94/18-97-0402-1100	0.97	<20 PPM TPH
CA94/19-97-0402-1101	1.00	ND
CA94/20-97-0402-1102	1.06	ND
CA94/21-97-0402-1103	1.01	ND
CA94/22-97-0402-1104	1.04	ND
CA94/23-97-0402-1105	1.03	ND

ND = Not Detectable

CHEYENN
BUILDING CONTRACTORS INC.

P.O. BOX 418
CLOVIS, NEW MEXICO 88102-0418
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G898
LIC. NO. 30759

CERTIFICATE OF VAPOR TESTING

DATE 4-2-97

TANK OWNER 27th CE/CEVP PHONE 784-6022

ADDRESS 111 Engineers Way Cannon AFB NM 88103

CONTRACTOR REMOVING TANK Cheyenne

ADDRESS _____ PHONE _____

CHEYENNE BUILDERS IS CERTIFIED CONTRACTOR IN VAPOR TESTING.

I Troy Moralez HEREBY CERTIFY THAT ~~TANK~~ unit AT Swmu 94C IS FREE FROM COMBUSTIBLE MATERIAL.

TROY MORALEZ

MIKE LANDGRAF

Company Cheyenne	Date 4-2-97
Site Location/Description SWMU 94C	Time 9:00 ☒AM ☐PM
Inspected by Troy Morales	Project Number DAC447-95-D-0035

STRUCTIONS: Read the ITEM NUMBER and DESCRIPTION to determine the current conditions of this excavation site. Mark an (X) in the YES column if scription is present and has been satisfied. Mark an (X) in the NO column if the item has not been completed. Mark a line (–) across the YES and No s if the ITEM does not apply. Use the NOTES section to list the ITEM NUMBER. Write any comments that apply to the ITEM NUMBER.

Item No.	DESCRIPTION	YES	NO	Item No.	DESCRIPTION	YES	NO
1	The utility company has been notified of excavation work schedule.	X		19	Employees working below other employees in trench are protected from hazards.	X	
2	Location of underground utility lines are identified.	X		20	The trench is free of standing water.	X	
3	Hazardous objects have been removed from excavation area or blocked securely.	X		21	The proper water removal equipment is operating under guidance of competent person.	X	
4	Soil type is classified.	X		22	Diversion ditches or dikes are in place to prevent surface water from entering trench.	X	
5	Sloping and Benching system is designed per OSHA requirements.	X		23	The trench is inspected by competent person following any amount of rain.	X	
6	Timber shoring system is designed per OSHA requirements.	X		24	Employees are wearing proper safety equipment.	X	
7	Aluminum Hydraulic shoring system is designed per OSHA requirements.	X		25	Test air quality in trench if a hazardous atmosphere is suspected.	X	
8	Shielding system is designed per OSHA requirements.	X		26	A ventilation or respiratory protection is in use.	X	
9	Shields are free from damage or defects.	X		27	Protective support systems are installed from the top down.	X	
10	Employees are protected from cave-ins when entering and exiting the shield.	X		28	Protective support systems are dismantled from the bottom up.	X	
	When a combination of sloping and shielding is used, the shield must extend 18 inches above the bottom slope of the excavation.	X		29	Excavation is backfilled as the protective system is dismantled.	X	
12	A ladder is provided and secured in trench four or more feet deep; top of ladder extending at least 36 inches above edge of trench.	X		30	Heavy equipment is mounted on wooden mats to distribute weight.	X	
13	A ladder is within 25 feet of all employees working in trench	X		31	Damaged materials or equipment are removed from service.	X	
14	Excavated material is stored at least two feet from the edge of the excavation.	X		32	An emergency response program is in place.	X	
15	Employees are protected from loose material which could fall into trench.	X		33	Life support equipment is in working order.	X	
16	A competent person inspects the trench prior to the start of the shift.	X		34	Note other conditions. Breathing Zone 0.0 to 0.6 PPM		
17	The location of trench is marked by banners, barricades or other signals.	X		35	O_2 19.5 % CGI <2% LEL		
18	Bridges or walkways over excavations are equipped with guardrails and toeboards.	X		36			

Notes:

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APPENDIX IV

Laboratory Analysis Results
for
Soils

U.S. ARMY CORPS OF ENGINEERS
Albuquerque District
Hazardous, Toxic and Radiologic Waste Section
4101 Jefferson Pl. NE
Albuquerque, NM 87109
505-342-3472

Chemical Quality Assurance Report (CQAR)

1. This is in reference to samples CA63/7-96-0822-1340, CA63/7 QC, and CA63/7-96-0822-1340 QA associated with the Cannon AFB Oil Water Seperator removal and replacement project.

2. Two soil samples, one confirmatory sample (CA63/7-96-0822-1340) and one quality control sample (CA63/7 QC), arrived at Assaigai Analytical Laboratory on 24 August 1996 from Cannon AFB. The samples arrived on ice and in good condition. The samples were analyzed for the following:

* Volatile Organics (VOA) by EPA method 8260.
* Base/neutral/acid extractable organics (BNA) by Method 8270.
* TCLP Metals by EPA methods: 7471 for Mercury; and 6010 for arsenic, barium, cadmium, chromium, lead, selenium, nickel and silver; along with TCLP extraction method of 1311.
* 8 RCRA Metals by EPA methods: 7471 for Mercury; and 6010 for arsenic, barium, cadmium, chromium, lead, selenium, nickel and silver; and extraction method of 3050.
* Diesel and Gasoline Range Organics by EPA method 8015 modified.

Analysis for Nickel was added to the metal analyte list on 10 September 96.

3. One soil sample, quality assurance sample (CA63/7-96-0822-1340 QA), was received by Missouri River Laboratory on 24 August 1996. The sample was analyzed for the following:

* Volatile Organics (VOA) by EPA method 8260.
* Base/neutral/acid extractable organics (BNA) by Method 8270.
* TCLP Metals by EPA methods: 7471 for Mercury; and 6010 for arsenic, barium, cadmium, chromium, lead, selenium, nickel and silver; along with TCLP extraction method of 1311.

4. The data package from both Missouri River Laboratory and Assaigai Analytical Laboratory contained all required internal quality control information. The analysis was performed using the specified method within the proper holding times. The majority of

RPDs, and the matrix spike and laboratory control recoveries were within control limits with the following exceptions:

Assaigai Analytical Laboratory

- The MSD associated with the volatile analysis was analyzed beyond the twelve hour clock. The MS/MSD pair had good RPDs and the percent recoveries were within criteria. This demonstrated that little or no drift had occurred.
- The MS recovery of lead was lower than criteria in the metals analysis. This was attributed to matrix interference and inhomegeneity. The LCS/LCSD recoveries and RPDs were within QC criteria demonstrating method and system performance.

Missouri River Laboratory

- No exceptions noted.

The method blank was free of contamination.

5. One soil sample was analyzed in triplicate (field, QC duplicate, and QA split) for VOA, BNA and TCLP Metals. The VOA and BNA analysis showed 100% agreement for the field, QC and QA analyte determinations (all were non-detectable) with the exception of Bis(2-Ethylhexyl)Phthalate which was reported by the Missouri River Laboratory contract laboratory at 0.7 mg/Kg. This level was below the 5.3 mg/Kg reporting limit established by Assaigai Analytical Laboratory. The metals analysis comparison is as follows:

Table 1. Metals Analysis Comparison.

Analyte	Field* Result/20	QC* result/20	QA result	Method Field/QA	Comment
Mercury	ND	ND	ND	7471/7470	agree
Arsenic	ND	ND	ND	6010/6010	agree
Barium	6.35	10.1	2.5	6010/6010	agree
Cadmium	ND	ND	ND	6010/6010	agree
Chromium	ND	ND	ND	6010/6010	agree
Lead	ND	ND	ND	6010/6010	agree
Selenium	ND	ND	ND	6010/6010	agree
Silver	ND	ND	ND	6010/6010	agree

*The Field and QC results were analyzed for total metals. To estimate the TCLP result the total metals result was divided by the 20 times dilution made in the TCLP extraction technique.

ASSAIGAI ANALYTICAL LABORATORIES

Chain of Custody Record

Lab Job no.: 8286 8/26/96

Page 1 of 1

7300 JEFFERSON, N.E.
ALBUQUERQUE, NEW MEXICO
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EL PASO, TEXAS 79925
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MIDLAND, ...S 79705
(915) 570-1116

MELQUIADES ALANIS
6411 LOCAL UNO
CIUDAD JUAREZ, CHIHUAHUA MEXICO 32320

Client: Cheyenne / LCT-2, INC

Project Manager / Contact: Mike Landsort

Address: 1712 S Prince St CLOVIS

Telephone No.: 505-763-1410

City / State / Zip: CLOVIS NM 88101

Fax No.: 505-769-0780

Project Name / Number: OWS Removal / DACA47-95-D-0035

Samplers: (Signature)

Contract / Purchase Order / Quote: Dan Moore

Analysis Required

AAL Fraction Number	Field Sample Number / Location	Date	Time	Sample Type	Type / Size of Container	Preservation Temp.	Preservation Chemical	No. of Containers	TPH 8015 MOD	VOC's 8260	TAL RCRA Metals 6010	SVOC's 8270			BTEX 8020			Remarks
1A-1D	CA62/7-96-0822-1330	8/22/96	13:30	Soil	9oz Glass	ice		4	X	X	X	X						CA62/7A thru CA62/7D
2A-D	CA63/7-96-0822-1340	8/22/96	13:40	Soil	9oz Glass	ice		4	X	X	X	X						CA63/7A thru CA63/7D
3A-D	CA63/7 QC	8/22/96	13:40	Soil	9oz Glass	ice		4	X	X	X	X						CA63/7QC thru CA63/7DQC
4A	CA61/6-96-0821-1315	8/23/96	13:15	Soil	9oz Glass			1	X						X			correlation sample (Hi)
5A	CA62/4-96-0822-1328	8/23/96	13:28	Soil	9oz Glass			1	X						X			correlation sample (10th of 1)
6A	CA62/2-96-0822-1328	8/23/96	13:28	Soil	9oz Glass			1	X						X			correlation sample (Highest)
7A	CA63/5-96-0822-1340	8/23/96	13:40	Soil				1	X						X			correlation Sample (Highest)

Relinquished by:	Date / Time	Received by:	Relinquished by:	Date / Time	Received by:
Signature:	8/23/96	Signature:	Signature:	8/24/96	Signature:
Printed: Troy Moore	12:23	Printed: TNMO	Printed: Gregory Howard	16:00	Printed: Angie Moore
Company: Cheyenne		Company:	Company:		Company: AAL
Reason: Shipment		Reason:	Reason:		Reason:

Method of Shipment:

Shipment No.

Special Instructions:

Comments: Cool @ 3.0°C

After analysis, samples are to be:

- ☐ Disposed of (additional fee)
- ☐ Stored (30 days max)
- ☐ Stored over 30 days (additional fee)
- ☐ Returned to customer

ASSAIGAI PROJECT FILE

B2

COOLER RECEIPT FORM

IMS# 4198 MRD Cooler # — Number of Coolers 1 Contractor Cooler Acuaguel

PROJECT: Cannon Date received: 8/24/96

USE OTHER SIDE OF THIS FORM TO NOTE DETAILS CONCERNING CHECK-IN PROBLEMS.

A. PRELIMINARY EXAMINATION PHASE: Date cooler opened: 8/24/96 C-of-C Number: P.2/2

by (print) Sherry Swink (sign) Sherry Swink

1. Did cooler come with a shipping slip (air bill, etc.)? ..... (YES) NO

   If YES, enter carrier name & air bill number here: UPSN: 4630102302578

2. Were custody seals on outside of cooler? ..... YES (NO)

   How many & where: _____, seal date: _____, seal name _____

3. Were custody seals unbroken and intact at the date and time of arrival? ..... YES (NO)
4. Did you screen samples for radioactivity using ~~the Geiger Counter~~ coulant pd ..... (YES) NO
5. Were custody papers sealed in a plastic bag & taped inside to the lid? ..... YES (NO)
6. Were custody papers filled out properly (ink, signed, etc.)? ..... (YES) NO
7. Did you sign custody papers in the appropriate place? ..... (YES) NO
8. Was project identifiable from custody papers? ..... (YES) NO
9. Type of ice: reg + blue Temperature: 7.9° Date temperature measured: 8/24
10. Describe type of packing in cooler: bubble wrap
11. Were all bottles sealed in separate plastic bags? ..... (YES) NO

B. LOG-IN PHASE: Date samples were logged-in: 8/26/96

by (print) Sherry Swink (sign) Sherry Swink

12. Did all bottles arrive unbroken & were labels in good condition? ..... (YES) NO
13. Were all bottle labels complete (ID, date, time, signature, preservative, etc.)? ..... (YES) NO
14. Did all bottle labels agree with custody papers? ..... ID ? ..... YES (NO)
15. Were correct containers used for the tests indicated? ..... (YES) NO
16. Were correct preservatives added to samples? ..... N/A ..... ~~YES NO~~
17. Was a sufficient amount of sample sent for tests indicated? ..... (YES) NO
18. Was headspace absent in Volatile samples? If NO, list by QA#: 1/4" headspace YES (NO)

    QA # (cont.) _____

19. Were the custody papers checked against the sample receipt form? By whom? LP Date: 8/26/96

MLPR#	MRD ~~SWL~~ LAB# 4198	CHEST #

D1

Missouri River Laboratory
420 S 18th Street
Omaha, NE 68102-2586
(402)444-4313

Chain-of Custody

District: Albuquerque Date Sampled: 8/22/96 Time: 1340

Location: Cannon AFB Site: CAFB

Boring/Well #: _____ ID Field # CA63/7-960822-1340 QA

Project Manager: Susan Gant Phone #: 505-342-3471 Ext: —

Requested Due Date: regular turn
(30 days for regular turnaround)

Containers

Glass	Plastic	Jar	Vial	Bag
3-9oz				

check	Parameter	Preservative	Test Methods
	VOC	4°C	8260
	SVOC	4°C	3540 / 8270
	~~KU~~ 8 RCRA METALS	4°C	1311 / 7060; 7471 7240; 6010

Custody Record

Relinquished By	Date/Time	Received by	Date/Time
Troy Morales	8/22/96 / 2:00	Monique Ostermann	8/22/96 / 1400 or 200
Monique Ostermann	8/23/96		8-23-96
		Sherry Swint	8/24/96 1000

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Report Generated:
September 13, 1996 13:20

CERTIFICATE OF ANALYSIS
RESULTS BY SAMPLE

SENT TO: CHEYENNE BUILDING CONTRACTORS
P.O. BOX 418
CLOVIS, NM 88101

ATTN: MIKE LANDGRAF

WORKORDER # : 9608264
WORK ID : OWS REMOVAL DACA47-95-D-0035
CLIENT CODE : CHE10
DATE RECEIVED : 08/22/96

Lab ID: 9608264-01A
Sample ID: CA61/7-96-0821-1315
Collected: 08/21/96 13:15:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
Diesel Range OG Soil/M8015						
Diesel Range OG in Soil	ND	mg/Kg	50	1.0	08/28/96	SLFTD79
HCs DSL XT/CAL DHS 8015M	08/30/96	N/A				

Lab ID: 9608264-01B
Sample ID: CA61/7-96-0821-1315
Collected: 08/21/96 13:15:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
VOLATILES/SW846 8260						
Dichlorodifluoromethane	ND	mg/Kg	0.010	5.0	08/27/96	SMSVOA390
Chloromethane	ND	mg/Kg	0.0050	5.0	08/27/96	SMSVOA390
Iodomethane	ND	mg/Kg	0.0050	5.0	08/27/96	SMSVOA390
Acetone	ND	mg/Kg	0.0050	5.0	08/27/96	SMSVOA390
Bromomethane	ND	mg/Kg	0.0050	5.0	08/27/96	SMSVOA390
Vinyl Chloride	ND	mg/Kg	0.0050	5.0	08/27/96	SMSVOA390
Chloroethane	ND	mg/Kg	0.0050	5.0	08/27/96	SMSVOA390
Trichlorofluoromethane	ND	mg/Kg	0.0050	5.0	08/27/96	SMSVOA390
Freon 113	ND	mg/Kg	0.0050	5.0	08/27/96	SMSVOA390
Carbon Disulfide	ND	mg/Kg	0.0050	5.0	08/27/96	SMSVOA390
Acrolein	ND	mg/Kg	0.020	5.0	08/27/96	SMSVOA390
Methylene Chloride	ND	mg/Kg	0.010	5.0	08/27/96	SMSVOA390
1,1-Dichloroethene	ND	mg/Kg	0.0010	5.0	08/27/96	SMSVOA390
1,1-Dichloroethane	ND	mg/Kg	0.0010	5.0	08/27/96	SMSVOA390
Acrylonitrile	ND	mg/Kg	0.020	5.0	08/27/96	SMSVOA390
trans-1,2-Dichloroethene	ND	mg/Kg	0.0010	5.0	08/27/96	SMSVOA390
Chloroform	ND	mg/Kg	0.0010	5.0	08/27/96	SMSVOA390
1,2-Dichloroethane	ND	mg/Kg	0.0010	5.0	08/27/96	SMSVOA390
Vinyl Acetate	ND	mg/Kg	0.0050	5.0	08/27/96	SMSVOA390
cis-1,2-Dichloroethene	ND	mg/Kg	0.0010	5.0	08/27/96	SMSVOA390
2-Butanone (MEK)	ND	mg/Kg	0.0050	5.0	08/27/96	SMSVOA390
1,1,1-Trichloroethane	ND	mg/Kg	0.0010	5.0	08/27/96	SMSVOA390
Carbon Tetrachloride	ND	mg/Kg	0.0010	5.0	08/27/96	SMSVOA390
Bromodichloromethane	ND	mg/Kg	0.0010	5.0	08/27/96	SMSVOA390
1,2-Dichloropropane	ND	mg/Kg	0.0010	5.0	08/27/96	SMSVOA390
Dibromomethane	ND	mg/Kg	0.0010	5.0	08/27/96	SMSVOA390
1,3-Dichloropropene	ND	mg/Kg	0.0010	5.0	08/27/96	SMSVOA390
roethene	ND	mg/Kg	0.0010	5.0	08/27/96	SMSVOA390
odibromomethane	ND	mg/Kg	0.0010	5.0	08/27/96	SMSVOA390
Ethyl Methacrylate	ND	mg/Kg	0.0050	5.0	08/27/96	SMSVOA390

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ID: 9608264-01B **Collected:** 08/21/96 13:15:00
Sample ID: CA61/7-96-0821-1315 **Matrix:** SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
VOLATILES/SW846 8260						
2-Chloroethylvinyl Ether	ND	mg/Kg	0.0050	5.0	08/27/96	SMSVOA390
1,1,2-Trichloroethane	ND	mg/Kg	0.0010	5.0	08/27/96	SMSVOA390
Benzene	ND	mg/Kg	0.0010	5.0	08/27/96	SMSVOA390
cis-1,3-Dichloropropene	ND	mg/Kg	0.0010	5.0	08/27/96	SMSVOA390
Bromoform	ND	mg/Kg	0.0010	5.0	08/27/96	SMSVOA390
4-Methyl-2-Pentanone (MIBK)	ND	mg/Kg	0.0050	5.0	08/27/96	SMSVOA390
Tetrachloroethene	ND	mg/Kg	0.0010	5.0	08/27/96	SMSVOA390
1,1,2,2-Tetrachloroethane	ND	mg/Kg	0.0010	5.0	08/27/96	SMSVOA390
1,2-Dibromoethane	ND	mg/Kg	0.0010	5.0	08/27/96	SMSVOA390
2-Hexanone (MBK)	ND	mg/Kg	0.0050	5.0	08/27/96	SMSVOA390
1,1,1,2-Tetrachloroethane	ND	mg/Kg	0.0010	5.0	08/27/96	SMSVOA390
Toluene	ND	mg/Kg	0.0010	5.0	08/27/96	SMSVOA390
Chlorobenzene	ND	mg/Kg	0.0010	5.0	08/27/96	SMSVOA390
Ethylbenzene	ND	mg/Kg	0.0010	5.0	08/27/96	SMSVOA390
1,4-Dichloro-2-Butene	ND	mg/Kg	0.010	5.0	08/27/96	SMSVOA390
Styrene	ND	mg/Kg	0.0010	5.0	08/27/96	SMSVOA390
P/M Xylene	ND	mg/Kg	0.0020	5.0	08/27/96	SMSVOA390
O-Xylene	ND	mg/Kg	0.0010	5.0	08/27/96	SMSVOA390
1,2,3-Trichloropropane	ND	mg/Kg	0.0010	5.0	08/27/96	SMSVOA390
Methyl-tert Butyl Ether	ND	mg/Kg	0.010	5.0	08/27/96	SMSVOA390
1,2-Dichlorobenzene	ND	mg/Kg	0.0010	5.0	08/27/96	SMSVOA390
1,3-Dichlorobenzene	ND	mg/Kg	0.0010	5.0	08/27/96	SMSVOA390
1,4-Dichlorobenzene	ND	mg/Kg	0.0010	5.0	08/27/96	SMSVOA390

ID: 9608264-01C **Collected:** 08/21/96 13:15:00
Sample ID: CA61/7-96-0821-1315 **Matrix:** SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
CVAA Hg XT/SW846 7471	08/27/96	N/A				
MERCURY (CVAA)/SW846 7471						
Mercury	ND	mg/Kg	0.15	1.0	08/28/96	SCV117
Metal(ICP) DIG /SW846 3050	08/28/96	N/A				
METALS-ICP/SW846 6010						
Silver, Ag	ND	mg/Kg	1.0	1.0	08/31/96	SIF24
Aluminum, Al	NT	mg/Kg	25			SIF24
Arsenic, As	3.2	mg/Kg	3.0	1.0	08/31/96	SIF24
Barium, Ba	53.3	mg/Kg	0.50	1.0	08/31/96	SIF24
Beryllium, Be	NT	mg/Kg	0.50			SIF24
Calcium, Ca	NT	mg/Kg	15			SIF24
Cadmium, Cd	ND	mg/Kg	0.20	1.0	08/31/96	SIF24
Cobalt, Co	NT	mg/Kg	0.50			SIF24
Chromium, Cr	8.9	mg/Kg	1.0	1.0	08/31/96	SIF24
Copper, Cu	NT	mg/Kg	0.50			SIF24
Iron, Fe	NT	mg/Kg	15			SIF24
Potassium, K	NT	mg/Kg	10			SIF24
Magnesium, Mg	NT	mg/Kg	10			SIF24
Manganese, Mn	NT	mg/Kg	0.25			SIF24
Sodium, Na	NT	mg/Kg	15			SIF24
Nickel, Ni	7.1	mg/Kg	2.0	1.0	08/31/96	SIF24
Lead, Pb	4.7	mg/Kg	2.0	1.0	08/31/96	SIF24
Antimony, Sb	NT	mg/Kg	1.5			SIF24
Selenium, Se	ND	mg/Kg	2.5	1.0	08/31/96	SIF24
dium, V	NT	mg/Kg	0.15			SIF24
Zn	NT	mg/Kg	5.0			SIF24

ID: 9608264-01D
Sample ID: CA61/7-96-0821-1315

Collected: 08/21/96 13:15:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
HCs GAS/HDSPCE/CALDHS8015M						
HCs (Gasoline by Headspace)	ND	mg/Kg	0.10	1.0	09/04/96	SLFTG58

Lab ID: 9608264-01E
Sample ID: CA61/7-96-0821-1315

Collected: 08/21/96 13:15:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
SVOA(SOX) Soil/SW846 8270B	08/29/96	N/A				
n-Nitrosodimethylamine	ND	mg/Kg	1.0	1.5	09/04/96	SMSSVOA121
Pyridine	ND E	mg/Kg	10	1.5	09/04/96	SMSSVOA121
Aniline	ND E	mg/Kg	10	1.5	09/04/96	SMSSVOA121
bis(2-Chloroethyl) Ether	ND	mg/Kg	0.50	1.5	09/04/96	SMSSVOA121
2-Chlorophenol	ND	mg/Kg	0.50	1.5	09/04/96	SMSSVOA121
1,3-Dichlorobenzene	ND	mg/Kg	0.50	1.5	09/04/96	SMSSVOA121
1,4-Dichlorobenzene	ND	mg/Kg	0.50	1.5	09/04/96	SMSSVOA121
Phenol	ND	mg/Kg	0.50	1.5	09/04/96	SMSSVOA121
1,2-Dichlorobenzene	ND	mg/Kg	0.50	1.5	09/04/96	SMSSVOA121
Benzyl Alcohol	ND E	mg/Kg	10	1.5	09/04/96	SMSSVOA121
bis(2-Chloroisopropyl) Ether	ND	mg/Kg	1.0	1.5	09/04/96	SMSSVOA121
thylphenol / O-Cresol	ND	mg/Kg	0.50	1.5	09/04/96	SMSSVOA121
hloroethane	ND	mg/Kg	0.50	1.5	09/04/96	SMSSVOA121
roso-di-n-propylamine	ND	mg/Kg	0.50	1.5	09/04/96	SMSSVOA121
Nitrobenzene	ND	mg/Kg	0.50	1.5	09/04/96	SMSSVOA121
3/4 Methylphenol / M/P-Cresol	ND	mg/Kg	0.50	1.5	09/04/96	SMSSVOA121
Isophorone	ND	mg/Kg	0.50	1.5	09/04/96	SMSSVOA121
2-Nitrophenol	ND	mg/Kg	1.0	1.5	09/04/96	SMSSVOA121
bis(2-Chloroethoxy) Methane	ND	mg/Kg	0.50	1.5	09/04/96	SMSSVOA121
2,4-Dimethylphenol	ND	mg/Kg	1.0	1.5	09/04/96	SMSSVOA121
1,2,4-Trichlorobenzene	ND	mg/Kg	0.50	1.5	09/04/96	SMSSVOA121
Naphthalene	ND	mg/Kg	0.50	1.5	09/04/96	SMSSVOA121
Benzoic Acid	ND E	mg/Kg	10	1.5	09/04/96	SMSSVOA121
2,4-Dichlorophenol	ND	mg/Kg	1.0	1.5	09/04/96	SMSSVOA121
4-Chloroaniline	ND	mg/Kg	10	1.5	09/04/96	SMSSVOA121
Hexachlorobutadiene	ND E	mg/Kg	0.50	1.5	09/04/96	SMSSVOA121
2-Methylnaphthalene	ND	mg/Kg	0.50	1.5	09/04/96	SMSSVOA121
4-Chloro-3-methylphenol	ND	mg/Kg	0.50	1.5	09/04/96	SMSSVOA121
Hexachlorocyclopentadiene	ND	mg/Kg	10	1.5	09/04/96	SMSSVOA121
2,4,6-Trichlorophenol	ND	mg/Kg	1.0	1.5	09/04/96	SMSSVOA121
2,4,5-Trichlorophenol	ND	mg/Kg	1.0	1.5	09/04/96	SMSSVOA121
2-Chloronaphthalene	ND	mg/Kg	0.50	1.5	09/04/96	SMSSVOA121
2-Nitroaniline	ND	mg/Kg	1.0	1.5	09/04/96	SMSSVOA121
Acenaphthylene	ND	mg/Kg	0.50	1.5	09/04/96	SMSSVOA121
Dimethylphthalate	ND	mg/Kg	0.50	1.5	09/04/96	SMSSVOA121
2,6-Dinitrotoluene	ND	mg/Kg	1.0	1.5	09/04/96	SMSSVOA121
Acenaphthene	ND	mg/Kg	0.50	1.5	09/04/96	SMSSVOA121
3-Nitroaniline	ND	mg/Kg	10	1.5	09/04/96	SMSSVOA121
Dibenzofuran	ND	mg/Kg	0.50	1.5	09/04/96	SMSSVOA121
2,4-Dinitrotoluene	ND	mg/Kg	2.5	1.5	09/04/96	SMSSVOA121
Fluorene	ND	mg/Kg	0.50	1.5	09/04/96	SMSSVOA121
4-Chlorophenyl-phenylether	ND	mg/Kg	0.50	1.5	09/04/96	SMSSVOA121
Diethylphthalate	ND	mg/Kg	0.50	1.5	09/04/96	SMSSVOA121
4-Nitrophenol	ND E	mg/Kg	10	1.5	09/04/96	SMSSVOA121
4,6-Dinitro-2-methylphenol	ND E	mg/Kg	10	1.5	09/04/96	SMSSVOA121
rosodiphenylamine	ND	mg/Kg	0.50	1.5	09/04/96	SMSSVOA121
aniline	ND	mg/Kg	10	1.5	09/04/96	SMSSVOA121
mophenyl-phenylether	ND	mg/Kg	0.50	1.5	09/04/96	SMSSVOA121
Hexachlorobenzene	ND	mg/Kg	0.50	1.5	09/04/96	SMSSVOA121
Pentachlorophenol	ND E	mg/Kg	10	1.5	09/04/96	SMSSVOA121

ID: 9608264-01E
Sample ID: CA61/7-96-0821-1315

Collected: 08/21/96 13:15:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
SVOA(SOX) Soil/SW846 8270B						
2,4-Dinitrophenol	ND E	mg/Kg	10	1.5	09/04/96	SMSSVOA121
Phenanthrene	ND	mg/Kg	0.50	1.5	09/04/96	SMSSVOA121
Anthracene	ND	mg/Kg	0.50	1.5	09/04/96	SMSSVOA121
Di-n-butylphthalate	ND	mg/Kg	5.0	1.5	09/04/96	SMSSVOA121
Fluoranthene	ND	mg/Kg	0.50	1.5	09/04/96	SMSSVOA121
Pyrene	ND	mg/Kg	0.50	1.5	09/04/96	SMSSVOA121
Butylbenzylphthalate	ND	mg/Kg	0.50	1.5	09/04/96	SMSSVOA121
Benzo(a)anthracene	ND	mg/Kg	0.50	1.5	09/04/96	SMSSVOA121
Chrysene	ND	mg/Kg	0.50	1.5	09/04/96	SMSSVOA121
3,3'-Dichlorobenzidine	ND E	mg/Kg	10	1.5	09/04/96	SMSSVOA121
bis(2-Ethylhexyl)phthalate	ND	mg/Kg	2.5	1.5	09/04/96	SMSSVOA121
Di-n-octyl phthalate	ND	mg/Kg	0.50	1.5	09/04/96	SMSSVOA121
Benzo(b)+(k)fluoranthene	ND	mg/Kg	0.50	1.5	09/04/96	SMSSVOA121
1-Methylnaphthalene	ND	mg/Kg	1.0	1.5	09/04/96	SMSSVOA121
Benzo(a)pyrene	ND	mg/Kg	0.50	1.5	09/04/96	SMSSVOA121
Indeno(1,2,3-cd)pyrene	ND	mg/Kg	1.0	1.5	09/04/96	SMSSVOA121
Benzo(g,h,i)perylene	ND	mg/Kg	1.0	1.5	09/04/96	SMSSVOA121
2,3,4,6-Tetrachlorophenol	ND	mg/Kg	2.5	1.5	09/04/96	SMSSVOA121
Azobenzene	ND	mg/Kg	1.0	1.5	09/04/96	SMSSVOA121
Dibenz(a,h)anthracene	ND	mg/Kg	1.0	1.5	09/04/96	SMSSVOA121

Fred L. Shore, Ph.D.
VP of Laboratory Operations

WORKORDER COMMENTS

DATE : 09/13/96
WORKORDER: 9608264

DEFINITIONS/DATA QUALIFIERS

The following are definitions, abbreviations, and data qualifiers which may have been utilized in your report:

ND = Analyte "not detected" in analysis at the sample specific detection limit.
D_F = Sample "dilution factor"
NT = Analyte "not tested" per client request.
B = Analyte was also detected in laboratory method QC blank.
E = Analyte concentration (result) is an estimated value or exceeds analysis calibration range.
LIMIT = The minimum amount of the analyte that AAL can detect utilizing the specified analysis.

Please Note: Multiply the "Limit" value (AAL's Detection Limit) by Dilution Factor (D_F) to obtain the sample specific Detection Limit.

*** Analytical results reported pertain only to the samples provided ***
*** for analysis and may not represent actual field conditions. ***
***
*** This report is not to be reproduced except in full, without the ***
*** written approval of Assaigai Analytical Inc. ***

REPORT COMMENTS

Please note: The semi-volatile compounds which are flagged as "ND E", are due to the method detection limits being estimated. The data will be re-evaluated to remove the "estimated " qualifier when additional data has been generated to finalize the method detection limits. Additionally, none of the compounds which are flagged were found in the samples.

SAIGAI ANALYTICAL LABORATORIES

Chain of Custody Record

Lab job no.: 82604 Date 8-21-96

Page 1 of 1

7300 JEFFERSON, N.E.
ALBUQUERQUE, NEW MEXICO 87
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3332 WEDGEWOOD
EL PASO, TEXAS 79925
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1910 N. BIG SPRING
MIDLAND, TEXAS 79705
(915) 570-1116

MELQUIADES ALANIS
6411 LOCAL UNO
CIUDAD JUAREZ, CHIHUAHUA MEXICO 32320

Client: Cheyenne / LCT-2, INC

Project Manager / Contact: Mike Lanthaf

Address: 1712 Prince St

Telephone No.: 505-763-1410

City / State / Zip: Clovis NM 88101

Fax No.: 505-769-0780

Project Name / Number: Gas Removal DACA47-95-D-0035

Samplers: (Signature)

Contract / Purchase Order / Quote

Analysis Required

AAL Fraction Number	Field Sample Number / Location	Date	Time	Sample Type	Type / Size of Container	Preservation Temp.	Preservation Chemical	No. of Containers	TPH 5015	VOCs 8260	TPH/GRO 8015	SVOC 8270						Remarks
1A-1E	CA61/7-96-0821-1315	8/21/96	13:15	soil	glass 4oz, 8oz, 8oz, 8oz	ice		4	1	1	1	1						Client will provide
									1A	1B	1C	1D						

Relinquished by:	Date / Time	Received by:	Relinquished by:	Date / Time	Received by:
Signature:	8:21	Signature:	Signature:	8/23/96	Signature:
Printed: Troy Moralez		Printed: SAC Gonzales	Printed:		Printed:
Company: Cheyenne	8:10pm	Company: TAPT 6	Company: TNMD	1248	Company: AAL
Reason: Shipment		Reason: Transport To Mine	Reason: Transport		Reason:

Method of Shipment: Bus

Shipment No.

Special Instructions:

Comments: 3.1°C

After analysis, samples are to be:

- [x] Disposed of (additional fee)
- [ ] Stored (30 days max)
- [ ] Stored over 30 days (additional fee)
- [ ] Returned to customer

COURIER

ASSAIGAI
ANALYTICAL
LABORATORIES, INC.
7300 Jefferson, N.E. • Albuquerque, New Mexico 87109 • (505) 345-8964 • FAX (505) 345-7259
3332 Wedgewood, E-5 • El Paso, Texas 79925 • (915) 593-6000 • FAX (915) 593-7820

Report Generated:
September 13, 1996 14:21

CERTIFICATE OF ANALYSIS
RESULTS BY SAMPLE

SENT TO: CHEYENNE BUILDING CONTRACTORS
P.O. BOX 418
CLOVIS, NM 88101

ATTN: MIKE LANDGRAF

WORKORDER # : 9608286
WORK ID : OWS REMOVAL DACA47-95-D-0035
CLIENT CODE : CHE10
DATE RECEIVED : 08/24/96

Lab ID: 9608286-01A
Sample ID: CA62/7-96-0822-1330
Collected: 08/22/96 13:30:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
Diesel Range OG Soil/M8015						
Diesel Range OG in Soil	ND	mg/Kg	50	1.0	08/28/96	SLFTD79
HCs DSL XT/CAL DHS 8015M	08/28/96	N/A				
HCs GAS/HDSPCE/CALDHS8015M						
HCs (Gasoline by Headspace)	ATTACHED	mg/Kg	0.10			

ID: 9608286-01B
ple ID: CA62/7-96-0822-1330
Collected: 08/22/96 13:30:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
VOLATILES/SW846 8260						
Dichlorodifluoromethane	ND	mg/Kg	0.010	5.0	08/27/96	SMSVOA390
Chloromethane	ND	mg/Kg	0.0050	5.0	08/27/96	SMSVOA390
Iodomethane	ND	mg/Kg	0.0050	5.0	08/27/96	SMSVOA390
Acetone	ND	mg/Kg	0.0050	5.0	08/27/96	SMSVOA390
Bromomethane	ND	mg/Kg	0.0050	5.0	08/27/96	SMSVOA390
Vinyl Chloride	ND	mg/Kg	0.0050	5.0	08/27/96	SMSVOA390
Chloroethane	ND	mg/Kg	0.0050	5.0	08/27/96	SMSVOA390
Trichlorofluoromethane	ND	mg/Kg	0.0050	5.0	08/27/96	SMSVOA390
Freon 113	ND	mg/Kg	0.0050	5.0	08/27/96	SMSVOA390
Carbon Disulfide	ND	mg/Kg	0.0050	5.0	08/27/96	SMSVOA390
Acrolein	ND	mg/Kg	0.020	5.0	08/27/96	SMSVOA390
Methylene Chloride	ND	mg/Kg	0.010	5.0	08/27/96	SMSVOA390
1,1-Dichloroethene	ND	mg/Kg	0.0010	5.0	08/27/96	SMSVOA390
1,1-Dichloroethane	ND	mg/Kg	0.0010	5.0	08/27/96	SMSVOA390
Acrylonitrile	ND	mg/Kg	0.020	5.0	08/27/96	SMSVOA390
trans-1,2-Dichloroethene	ND	mg/Kg	0.0010	5.0	08/27/96	SMSVOA390
Chloroform	ND	mg/Kg	0.0010	5.0	08/27/96	SMSVOA390
1,2-Dichloroethane	ND	mg/Kg	0.0010	5.0	08/27/96	SMSVOA390
Vinyl Acetate	ND	mg/Kg	0.0050	5.0	08/27/96	SMSVOA390
cis-1,2-Dichloroethene	ND	mg/Kg	0.0010	5.0	08/27/96	SMSVOA390
2-Butanone (MEK)	ND	mg/Kg	0.0050	5.0	08/27/96	SMSVOA390
1,1,1-Trichloroethane	ND	mg/Kg	0.0010	5.0	08/27/96	SMSVOA390
Carbon Tetrachloride	ND	mg/Kg	0.0010	5.0	08/27/96	SMSVOA390
Bromodichloromethane	ND	mg/Kg	0.0010	5.0	08/27/96	SMSVOA390
' 2-Dichloropropane	ND	mg/Kg	0.0010	5.0	08/27/96	SMSVOA390
›omomethane	ND	mg/Kg	0.0010	5.0	08/27/96	SMSVOA390
1,3-Dichloropropene	ND	mg/Kg	0.0010	5.0	08/27/96	SMSVOA390
ıloroethene	ND	mg/Kg	0.0010	5.0	08/27/96	SMSVOA390

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THIS REPORT MAY NOT BE USED IN ANY MANNER BY THE CLIENT OR ANY OTHER THIRD PARTY TO CLAIM
PRODUCT ENDORSEMENT BY THE NATIONAL VOLUNTARY LABORATORY ACCREDITATION PROGRAM.

ID: 9608286-01B
ple ID: CA62/7-96-0822-1330

Collected: 08/22/96 13:30:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
VOLATILES/SW846 8260						
Chlorodibromomethane	ND	mg/Kg	0.0010	5.0	08/27/96	SMSVOA390
Ethyl Methacrylate	ND	mg/Kg	0.0050	5.0	08/27/96	SMSVOA390
2-Chloroethylvinyl Ether	ND	mg/Kg	0.0050	5.0	08/27/96	SMSVOA390
1,1,2-Trichloroethane	ND	mg/Kg	0.0010	5.0	08/27/96	SMSVOA390
Benzene	ND	mg/Kg	0.0010	5.0	08/27/96	SMSVOA390
cis-1,3-Dichloropropene	ND	mg/Kg	0.0010	5.0	08/27/96	SMSVOA390
Bromoform	ND	mg/Kg	0.0010	5.0	08/27/96	SMSVOA390
4-Methyl-2-Pentanone (MIBK)	ND	mg/Kg	0.0050	5.0	08/27/96	SMSVOA390
Tetrachloroethene	ND	mg/Kg	0.0010	5.0	08/27/96	SMSVOA390
1,1,2,2-Tetrachloroethane	ND	mg/Kg	0.0010	5.0	08/27/96	SMSVOA390
1,2-Dibromoethane	ND	mg/Kg	0.0010	5.0	08/27/96	SMSVOA390
2-Hexanone (MBK)	ND	mg/Kg	0.0050	5.0	08/27/96	SMSVOA390
1,1,1,2-Tetrachloroethane	ND	mg/Kg	0.0010	5.0	08/27/96	SMSVOA390
Toluene	ND	mg/Kg	0.0010	5.0	08/27/96	SMSVOA390
Chlorobenzene	ND	mg/Kg	0.0010	5.0	08/27/96	SMSVOA390
Ethylbenzene	ND	mg/Kg	0.0010	5.0	08/27/96	SMSVOA390
1,4-Dichloro-2-Butene	ND	mg/Kg	0.010	5.0	08/27/96	SMSVOA390
Styrene	ND	mg/Kg	0.0010	5.0	08/27/96	SMSVOA390
P/M Xylene	ND	mg/Kg	0.0020	5.0	08/27/96	SMSVOA390
O-Xylene	ND	mg/Kg	0.0010	5.0	08/27/96	SMSVOA390
1,2,3-Trichloropropane	ND	mg/Kg	0.0010	5.0	08/27/96	SMSVOA390
Methyl-tert Butyl Ether	ND	mg/Kg	0.010	5.0	08/27/96	SMSVOA390
1,2-Dichlorobenzene	ND	mg/Kg	0.0010	5.0	08/27/96	SMSVOA390
1,3-Dichlorobenzene	ND	mg/Kg	0.0010	5.0	08/27/96	SMSVOA390
1-Dichlorobenzene	ND	mg/Kg	0.0010	5.0	08/27/96	SMSVOA390

Lab ID: 9608286-01C
Sample ID: CA62/7-96-0822-1330

Collected: 08/22/96 13:30:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
CVAA Hg XT/SW846 7471	08/27/96	N/A				
MERCURY (CVAA)/SW846 7471						
Mercury	ND	mg/Kg	0.15	1.0	08/28/96	SCV117
Metal(ICP) DIG /SW846 3050	08/28/96	N/A				
METALS-ICP/SW846 6010						
Silver, Ag	ND	mg/Kg	1.0	1.0	08/31/96	SIF24
Aluminum, Al	NT	mg/Kg	25			SIF24
Arsenic, As	ND	mg/Kg	3.0	1.0	08/31/96	SIF24
Barium, Ba	37.7	mg/Kg	0.50	1.0	08/31/96	SIF24
Beryllium, Be	NT	mg/Kg	0.50			SIF24
Calcium, Ca	NT	mg/Kg	15			SIF24
Cadmium, Cd	ND	mg/Kg	0.20	1.0	08/31/96	SIF24
Cobalt, Co	NT	mg/Kg	0.50			SIF24
Chromium, Cr	8.4	mg/Kg	1.0	1.0	08/31/96	SIF24
Copper, Cu	NT	mg/Kg	0.50			SIF24
Iron, Fe	NT	mg/Kg	15			SIF24
Potassium, K	NT	mg/Kg	10			SIF24
Magnesium, Mg	NT	mg/Kg	10			SIF24
Manganese, Mn	NT	mg/Kg	0.25			SIF24
Sodium, Na	NT	mg/Kg	15			SIF24
Nickel, Ni	6.9	mg/Kg	2.0	1.0	08/31/96	SIF24
Lead, Pb	4.8	mg/Kg	2.0	1.0	08/31/96	SIF24
Antimony, Sb	NT	mg/Kg	1.5			SIF24
ium, Se	ND	mg/Kg	2.5	1.0	08/31/96	SIF24
ium, V	NT	mg/Kg	0.15			SIF24
Zn	NT	mg/Kg	5.0			SIF24

ID: 9608286-01D
ple ID: CA62/7-96-0822-1330

Collected: 08/22/96 13:30:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
SVOA(SOX) Soil/SW846 8270B	08/29/96	N/A				
n-Nitrosodimethylamine	ND	mg/Kg	1.0	1.9	09/04/96	SMSSVOA121
Pyridine	ND E	mg/Kg	10	1.9	09/04/96	SMSSVOA121
Aniline	ND E	mg/Kg	10	1.9	09/04/96	SMSSVOA121
bis(2-Chloroethyl) Ether	ND	mg/Kg	0.50	1.9	09/04/96	SMSSVOA121
2-Chlorophenol	ND	mg/Kg	0.50	1.9	09/04/96	SMSSVOA121
1,3-Dichlorobenzene	ND	mg/Kg	0.50	1.9	09/04/96	SMSSVOA121
1,4-Dichlorobenzene	ND	mg/Kg	0.50	1.9	09/04/96	SMSSVOA121
Phenol	ND	mg/Kg	0.50	1.9	09/04/96	SMSSVOA121
1,2-Dichlorobenzene	ND	mg/Kg	0.50	1.9	09/04/96	SMSSVOA121
Benzyl Alcohol	ND E	mg/Kg	10	1.9	09/04/96	SMSSVOA121
bis(2-Chloroisopropyl) Ether	ND	mg/Kg	1.0	1.9	09/04/96	SMSSVOA121
2-Methylphenol / O-Cresol	ND	mg/Kg	0.50	1.9	09/04/96	SMSSVOA121
Hexachloroethane	ND	mg/Kg	0.50	1.9	09/04/96	SMSSVOA121
n-Nitroso-di-n-propylamine	ND	mg/Kg	0.50	1.9	09/04/96	SMSSVOA121
Nitrobenzene	ND	mg/Kg	0.50	1.9	09/04/96	SMSSVOA121
3/4 Methylphenol / M/P-Cresol	ND	mg/Kg	0.50	1.9	09/04/96	SMSSVOA121
Isophorone	ND	mg/Kg	0.50	1.9	09/04/96	SMSSVOA121
2-Nitrophenol	ND	mg/Kg	1.0	1.9	09/04/96	SMSSVOA121
bis(2-Chloroethoxy) Methane	ND	mg/Kg	0.50	1.9	09/04/96	SMSSVOA121
2,4-Dimethylphenol	ND	mg/Kg	1.0	1.9	09/04/96	SMSSVOA121
1,2,4-Trichlorobenzene	ND	mg/Kg	0.50	1.9	09/04/96	SMSSVOA121
Naphthalene	ND	mg/Kg	0.50	1.9	09/04/96	SMSSVOA121
Benzoic Acid	ND E	mg/Kg	10	1.9	09/04/96	SMSSVOA121
2,4-Dichlorophenol	ND	mg/Kg	1.0	1.9	09/04/96	SMSSVOA121
Chloroaniline	ND	mg/Kg	10	1.9	09/04/96	SMSSVOA121
chlorobutadiene	ND	mg/Kg	0.50	1.9	09/04/96	SMSSVOA121
hylnaphthalene	ND	mg/Kg	0.50	1.9	09/04/96	SMSSVOA121
oro-3-methylphenol	ND	mg/Kg	0.50	1.9	09/04/96	SMSSVOA121
Hexachlorocyclopentadiene	ND E	mg/Kg	10	1.9	09/04/96	SMSSVOA121
2,4,6-Trichlorophenol	ND	mg/Kg	1.0	1.9	09/04/96	SMSSVOA121
2,4,5-Trichlorophenol	ND	mg/Kg	1.0	1.9	09/04/96	SMSSVOA121
2-Chloronaphthalene	ND	mg/Kg	0.50	1.9	09/04/96	SMSSVOA121
2-Nitroaniline	ND	mg/Kg	1.0	1.9	09/04/96	SMSSVOA121
Acenaphthylene	ND	mg/Kg	0.50	1.9	09/04/96	SMSSVOA121
Dimethylphthalate	ND	mg/Kg	0.50	1.9	09/04/96	SMSSVOA121
2,6-Dinitrotoluene	ND	mg/Kg	1.0	1.9	09/04/96	SMSSVOA121
Acenaphthene	ND	mg/Kg	0.50	1.9	09/04/96	SMSSVOA121
3-Nitroaniline	ND	mg/Kg	10	1.9	09/04/96	SMSSVOA121
Dibenzofuran	ND	mg/Kg	0.50	1.9	09/04/96	SMSSVOA121
2,4-Dinitrotoluene	ND	mg/Kg	2.5	1.9	09/04/96	SMSSVOA121
Fluorene	ND	mg/Kg	0.50	1.9	09/04/96	SMSSVOA121
4-Chlorophenyl-phenylether	ND	mg/Kg	0.50	1.9	09/04/96	SMSSVOA121
Diethylphthalate	ND	mg/Kg	0.50	1.9	09/04/96	SMSSVOA121
4-Nitrophenol	ND E	mg/Kg	10	1.9	09/04/96	SMSSVOA121
4,6-Dinitro-2-methylphenol	ND E	mg/Kg	10	1.9	09/04/96	SMSSVOA121
n-Nitrosodiphenylamine	ND	mg/Kg	0.50	1.9	09/04/96	SMSSVOA121
4-Nitroaniline	ND E	mg/Kg	10	1.9	09/04/96	SMSSVOA121
4-Bromophenyl-phenylether	ND	mg/Kg	0.50	1.9	09/04/96	SMSSVOA121
Hexachlorobenzene	ND	mg/Kg	0.50	1.9	09/04/96	SMSSVOA121
Pentachlorophenol	ND E	mg/Kg	10	1.9	09/04/96	SMSSVOA121
2,4-Dinitrophenol	ND E	mg/Kg	10	1.9	09/04/96	SMSSVOA121
Phenanthrene	ND	mg/Kg	0.50	1.9	09/04/96	SMSSVOA121
Anthracene	ND	mg/Kg	0.50	1.9	09/04/96	SMSSVOA121
Di-n-butylphthalate	ND	mg/Kg	5.0	1.9	09/04/96	SMSSVOA121
Fluoranthene	ND	mg/Kg	0.50	1.9	09/04/96	SMSSVOA121
Pyrene	ND	mg/Kg	0.50	1.9	09/04/96	SMSSVOA121
Butylbenzylphthalate	ND	mg/Kg	0.50	1.9	09/04/96	SMSSVOA121
Benzo(a)anthracene	ND	mg/Kg	0.50	1.9	09/04/96	SMSSVOA121
hrysene	ND	mg/Kg	0.50	1.9	09/04/96	SMSSVOA121
Dichlorobenzidine	ND E	mg/Kg	10	1.9	09/04/96	SMSSVOA121
Ethylhexyl)phthalate	ND	mg/Kg	2.5	1.9	09/04/96	SMSSVOA121
octyl phthalate	ND	mg/Kg	0.50	1.9	09/04/96	SMSSVOA121
Benzo(b)+(k)fluoranthene	ND	mg/Kg	0.50	1.9	09/04/96	SMSSVOA121

ID: 9608286-01D
ple ID: CA62/7-96-0822-1330

Collected: 08/22/96 13:30:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
SVOA(SOX) Soil/SW846 8270B						
1-Methylnaphthalene	ND	mg/Kg	1.0	1.9	09/04/96	SMSSVOA121
Benzo(a)pyrene	ND	mg/Kg	0.50	1.9	09/04/96	SMSSVOA121
Indeno(1,2,3-cd)pyrene	ND	mg/Kg	1.0	1.9	09/04/96	SMSSVOA121
Benzo(g,h,i)perylene	ND	mg/Kg	1.0	1.9	09/04/96	SMSSVOA121
2,3,4,6-Tetrachlorophenol	ND	mg/Kg	2.5	1.9	09/04/96	SMSSVOA121
Azobenzene	ND	mg/Kg	1.0	1.9	09/04/96	SMSSVOA121
Dibenz(a,h)anthracene	ND	mg/Kg	1.0	1.9	09/04/96	SMSSVOA121

Lab ID: 9608286-02A
Sample ID: CA63/7-96-0822-1340

Collected: 08/22/96 13:40:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
Diesel Range OG Soil/M8015						
Diesel Range OG in Soil	ND	mg/Kg	50	1.0	08/28/96	SLFTD79
HCs DSL XT/CAL DHS 8015M	08/28/96	N/A				
HCs GAS/HDSPCE/CALDHS8015M						
HCs (Gasoline by Headspace)	ATTACHED	mg/Kg	0.10			

'D: 9608286-02B
ple ID: CA63/7-96-0822-1340

Collected: 08/22/96 13:40:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
VOLATILES/SW846 8260						
Dichlorodifluoromethane	ND	mg/Kg	0.010	5.0	08/27/96	SMSVOA390
Chloromethane	ND	mg/Kg	0.0050	5.0	08/27/96	SMSVOA390
Iodomethane	ND	mg/Kg	0.0050	5.0	08/27/96	SMSVOA390
Acetone	ND	mg/Kg	0.0050	5.0	08/27/96	SMSVOA390
Bromomethane	ND	mg/Kg	0.0050	5.0	08/27/96	SMSVOA390
Vinyl Chloride	ND	mg/Kg	0.0050	5.0	08/27/96	SMSVOA390
Chloroethane	ND	mg/Kg	0.0050	5.0	08/27/96	SMSVOA390
Trichlorofluoromethane	ND	mg/Kg	0.0050	5.0	08/27/96	SMSVOA390
Freon 113	ND	mg/Kg	0.0050	5.0	08/27/96	SMSVOA390
Carbon Disulfide	ND	mg/Kg	0.0050	5.0	08/27/96	SMSVOA390
Acrolein	ND	mg/Kg	0.020	5.0	08/27/96	SMSVOA390
Methylene Chloride	ND	mg/Kg	0.010	5.0	08/27/96	SMSVOA390
1,1-Dichloroethene	ND	mg/Kg	0.0010	5.0	08/27/96	SMSVOA390
1,1-Dichloroethane	ND	mg/Kg	0.0010	5.0	08/27/96	SMSVOA390
Acrylonitrile	ND	mg/Kg	0.020	5.0	08/27/96	SMSVOA390
trans-1,2-Dichloroethene	ND	mg/Kg	0.0010	5.0	08/27/96	SMSVOA390
Chloroform	ND	mg/Kg	0.0010	5.0	08/27/96	SMSVOA390
1,2-Dichloroethane	ND	mg/Kg	0.0010	5.0	08/27/96	SMSVOA390
Vinyl Acetate	ND	mg/Kg	0.0050	5.0	08/27/96	SMSVOA390
cis-1,2-Dichloroethene	ND	mg/Kg	0.0010	5.0	08/27/96	SMSVOA390
2-Butanone (MEK)	ND	mg/Kg	0.0050	5.0	08/27/96	SMSVOA390
1,1,1-Trichloroethane	ND	mg/Kg	0.0010	5.0	08/27/96	SMSVOA390
Carbon Tetrachloride	ND	mg/Kg	0.0010	5.0	08/27/96	SMSVOA390
Bromodichloromethane	ND	mg/Kg	0.0010	5.0	08/27/96	SMSVOA390
?-Dichloropropane	ND	mg/Kg	0.0010	5.0	08/27/96	SMSVOA390
nomethane	ND	mg/Kg	0.0010	5.0	08/27/96	SMSVOA390
.,3-Dichloropropene	ND	mg/Kg	0.0010	5.0	08/27/96	SMSVOA390
...uloroethene	ND	mg/Kg	0.0010	5.0	08/27/96	SMSVOA390

ID: 9608286-02B
ple ID: CA63/7-96-0822-1340

Collected: 08/22/96 13:40:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
VOLATILES/SW846 8260						
Chlorodibromomethane	ND	mg/Kg	0.0010	5.0	08/27/96	SMSVOA390
Ethyl Methacrylate	ND	mg/Kg	0.0050	5.0	08/27/96	SMSVOA390
2-Chloroethylvinyl Ether	ND	mg/Kg	0.0050	5.0	08/27/96	SMSVOA390
1,1,2-Trichloroethane	ND	mg/Kg	0.0010	5.0	08/27/96	SMSVOA390
Benzene	ND	mg/Kg	0.0010	5.0	08/27/96	SMSVOA390
cis-1,3-Dichloropropene	ND	mg/Kg	0.0010	5.0	08/27/96	SMSVOA390
Bromoform	ND	mg/Kg	0.0010	5.0	08/27/96	SMSVOA390
4-Methyl-2-Pentanone (MIBK)	ND	mg/Kg	0.0050	5.0	08/27/96	SMSVOA390
Tetrachloroethene	ND	mg/Kg	0.0010	5.0	08/27/96	SMSVOA390
1,1,2,2-Tetrachloroethane	ND	mg/Kg	0.0010	5.0	08/27/96	SMSVOA390
1,2-Dibromoethane	ND	mg/Kg	0.0010	5.0	08/27/96	SMSVOA390
2-Hexanone (MBK)	ND	mg/Kg	0.0050	5.0	08/27/96	SMSVOA390
1,1,1,2-Tetrachloroethane	ND	mg/Kg	0.0010	5.0	08/27/96	SMSVOA390
Toluene	ND	mg/Kg	0.0010	5.0	08/27/96	SMSVOA390
Chlorobenzene	ND	mg/Kg	0.0010	5.0	08/27/96	SMSVOA390
Ethylbenzene	ND	mg/Kg	0.0010	5.0	08/27/96	SMSVOA390
1,4-Dichloro-2-Butene	ND	mg/Kg	0.010	5.0	08/27/96	SMSVOA390
Styrene	ND	mg/Kg	0.0010	5.0	08/27/96	SMSVOA390
P/M Xylene	ND	mg/Kg	0.0020	5.0	08/27/96	SMSVOA390
O-Xylene	ND	mg/Kg	0.0010	5.0	08/27/96	SMSVOA390
1,2,3-Trichloropropane	ND	mg/Kg	0.0010	5.0	08/27/96	SMSVOA390
Methyl-tert Butyl Ether	ND	mg/Kg	0.010	5.0	08/27/96	SMSVOA390
1,2-Dichlorobenzene	ND	mg/Kg	0.0010	5.0	08/27/96	SMSVOA390
1,3-Dichlorobenzene	ND	mg/Kg	0.0010	5.0	08/27/96	SMSVOA390
4-Dichlorobenzene	ND	mg/Kg	0.0010	5.0	08/27/96	SMSVOA390

Lab ID: 9608286-02C
Sample ID: CA63/7-96-0822-1340

Collected: 08/22/96 13:40:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
CVAA Hg XT/SW846 7471	08/27/96	N/A				
MERCURY (CVAA)/SW846 7471						
Mercury	ND	mg/Kg	0.15	1.0	08/28/96	SCV117
Metal(ICP) DIG /SW846 3050	08/28/96	N/A				
METALS-ICP/SW846 6010						
Silver, Ag	ND	mg/Kg	1.0	1.0	08/31/96	SIF24
Aluminum, Al	NT	mg/Kg	25			SIF24
Arsenic, As	ND	mg/Kg	3.0	1.0	08/31/96	SIF24
Barium, Ba	127	mg/Kg	0.50	1.0	08/31/96	SIF24
Beryllium, Be	NT	mg/Kg	0.50			SIF24
Calcium, Ca	NT	mg/Kg	15			SIF24
Cadmium, Cd	ND	mg/Kg	0.20	1.0	08/31/96	SIF24
Cobalt, Co	NT	mg/Kg	0.50			SIF24
Chromium, Cr	5.9	mg/Kg	1.0	1.0	08/31/96	SIF24
Copper, Cu	NT	mg/Kg	0.50			SIF24
Iron, Fe	NT	mg/Kg	15			SIF24
Potassium, K	NT	mg/Kg	10			SIF24
Magnesium, Mg	NT	mg/Kg	10			SIF24
Manganese, Mn	NT	mg/Kg	0.25			SIF24
Sodium, Na	NT	mg/Kg	15			SIF24
Nickel, Ni	2.8	mg/Kg	2.0	1.0	08/31/96	SIF24
Lead, Pb	ND	mg/Kg	2.0	1.0	08/31/96	SIF24
Antimony, Sb	NT	mg/Kg	1.5			SIF24
ium, Se	ND	mg/Kg	2.5	1.0	08/31/96	SIF24
lium, V	NT	mg/Kg	0.15			SIF24
Zn	NT	mg/Kg	5.0			SIF24

ID: 9608286-02D
Collected: 08/22/96 13:40:00
ple ID: CA63/7-96-0822-1340
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
SVOA(SOX) Soil/SW846 8270B	08/29/96	N/A				
n-Nitrosodimethylamine	ND	mg/Kg	1.0	2.1	09/03/96	SMSSVOA121
Pyridine	ND E	mg/Kg	10	2.1	09/03/96	SMSSVOA121
Aniline	ND E	mg/Kg	10	2.1	09/03/96	SMSSVOA121
bis(2-Chloroethyl) Ether	ND	mg/Kg	0.50	2.1	09/03/96	SMSSVOA121
2-Chlorophenol	ND	mg/Kg	0.50	2.1	09/03/96	SMSSVOA121
1,3-Dichlorobenzene	ND	mg/Kg	0.50	2.1	09/03/96	SMSSVOA121
1,4-Dichlorobenzene	ND	mg/Kg	0.50	2.1	09/03/96	SMSSVOA121
Phenol	ND	mg/Kg	0.50	2.1	09/03/96	SMSSVOA121
1,2-Dichlorobenzene	ND	mg/Kg	0.50	2.1	09/03/96	SMSSVOA121
Benzyl Alcohol	ND E	mg/Kg	10	2.1	09/03/96	SMSSVOA121
bis(2-Chloroisopropyl) Ether	ND	mg/Kg	1.0	2.1	09/03/96	SMSSVOA121
2-Methylphenol / O-Cresol	ND	mg/Kg	0.50	2.1	09/03/96	SMSSVOA121
Hexachloroethane	ND	mg/Kg	0.50	2.1	09/03/96	SMSSVOA121
n-Nitroso-di-n-propylamine	ND	mg/Kg	0.50	2.1	09/03/96	SMSSVOA121
Nitrobenzene	ND	mg/Kg	0.50	2.1	09/03/96	SMSSVOA121
3/4 Methylphenol / M/P-Cresol	ND	mg/Kg	0.50	2.1	09/03/96	SMSSVOA121
Isophorone	ND	mg/Kg	0.50	2.1	09/03/96	SMSSVOA121
2-Nitrophenol	ND	mg/Kg	1.0	2.1	09/03/96	SMSSVOA121
bis(2-Chloroethoxy) Methane	ND	mg/Kg	0.50	2.1	09/03/96	SMSSVOA121
2,4-Dimethylphenol	ND	mg/Kg	1.0	2.1	09/03/96	SMSSVOA121
1,2,4-Trichlorobenzene	ND	mg/Kg	0.50	2.1	09/03/96	SMSSVOA121
Naphthalene	ND	mg/Kg	0.50	2.1	09/03/96	SMSSVOA121
Benzoic Acid	ND E	mg/Kg	10	2.1	09/03/96	SMSSVOA121
? 4-Dichlorophenol	ND	mg/Kg	1.0	2.1	09/03/96	SMSSVOA121
hloroaniline	ND	mg/Kg	10	2.1	09/03/96	SMSSVOA121
chlorobutadiene	ND	mg/Kg	0.50	2.1	09/03/96	SMSSVOA121
hylnaphthalene	ND	mg/Kg	0.50	2.1	09/03/96	SMSSVOA121
loro-3-methylphenol	ND	mg/Kg	0.50	2.1	09/03/96	SMSSVOA121
Hexachlorocyclopentadiene	ND E	mg/Kg	10	2.1	09/03/96	SMSSVOA121
2,4,6-Trichlorophenol	ND	mg/Kg	1.0	2.1	09/03/96	SMSSVOA121
2,4,5-Trichlorophenol	ND	mg/Kg	1.0	2.1	09/03/96	SMSSVOA121
2-Chloronaphthalene	ND	mg/Kg	0.50	2.1	09/03/96	MSSVOA121
2-Nitroaniline	ND	mg/Kg	1.0	2.1	09/03/96	SMSSVOA121
Acenaphthylene	ND	mg/Kg	0.50	2.1	09/03/96	SMSSVOA121
Dimethylphthalate	ND	mg/Kg	0.50	2.1	09/03/96	SMSSVOA121
2,6-Dinitrotoluene	ND	mg/Kg	1.0	2.1	09/03/96	SMSSVOA121
Acenaphthene	ND	mg/Kg	0.50	2.1	09/03/96	SMSSVOA121
3-Nitroaniline	ND	mg/Kg	10	2.1	09/03/96	SMSSVOA121
Dibenzofuran	ND	mg/Kg	0.50	2.1	09/03/96	SMSSVOA121
2,4-Dinitrotoluene	ND	mg/Kg	2.5	2.1	09/03/96	SMSSVOA121
Fluorene	ND	mg/Kg	0.50	2.1	09/03/96	SMSSVOA121
4-Chlorophenyl-phenylether	ND	mg/Kg	0.50	2.1	09/03/96	SMSSVOA121
Diethylphthalate	ND	mg/Kg	0.50	2.1	09/03/96	SMSSVOA121
4-Nitrophenol	ND E	mg/Kg	10	2.1	09/03/96	SMSSVOA121
4,6-Dinitro-2-methylphenol	ND E	mg/Kg	10	2.1	09/03/96	SMSSVOA121
n-Nitrosodiphenylamine	ND	mg/Kg	0.50	2.1	09/03/96	SMSSVOA121
4-Nitroaniline	ND E	mg/Kg	10	2.1	09/03/96	SMSSVOA121
4-Bromophenyl-phenylether	ND	mg/Kg	0.50	2.1	09/03/96	SMSSVOA121
Hexachlorobenzene	ND	mg/Kg	0.50	2.1	09/03/96	SMSSVOA121
Pentachlorophenol	ND E	mg/Kg	10	2.1	09/03/96	SMSSVOA121
2,4-Dinitrophenol	ND E	mg/Kg	10	2.1	09/03/96	SMSSVOA121
Phenanthrene	ND	mg/Kg	0.50	2.1	09/03/96	SMSSVOA121
Anthracene	ND	mg/Kg	0.50	2.1	09/03/96	SMSSVOA121
Di-n-butylphthalate	ND	mg/Kg	5.0	2.1	09/03/96	SMSSVOA121
Fluoranthene	ND	mg/Kg	0.50	2.1	09/03/96	SMSSVOA121
Pyrene	ND	mg/Kg	0.50	2.1	09/03/96	SMSSVOA121
Butylbenzylphthalate	ND	mg/Kg	0.50	2.1	09/03/96	SMSSVOA121
Benzo(a)anthracene	ND	mg/Kg	0.50	2.1	09/03/96	SMSSVOA121
rysene	ND	mg/Kg	0.50	2.1	09/03/96	SMSSVOA121
Dichlorobenzidine	ND E	mg/Kg	10	2.1	09/03/96	SMSSVOA121
Ethylhexyl)phthalate	ND	mg/Kg	2.5	2.1	09/03/96	SMSSVOA121
-octyl phthalate	ND	mg/Kg	0.50	2.1	09/03/96	SMSSVOA121
Benzo(b)+(k)fluoranthene	ND	mg/Kg	0.50	2.1	09/03/96	SMSSVOA121

ID: 9608286-02D
ple ID: CA63/7-96-0822-1340

Collected: 08/22/96 13:40:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
SVOA(SOX) Soil/SW846 8270B						
1-Methylnaphthalene	ND	mg/Kg	1.0	2.1	09/03/96	SMSSVOA121
Benzo(a)pyrene	ND	mg/Kg	0.50	2.1	09/03/96	SMSSVOA121
Indeno(1,2,3-cd)pyrene	ND	mg/Kg	1.0	2.1	09/03/96	SMSSVOA121
Benzo(g,h,i)perylene	ND	mg/Kg	1.0	2.1	09/03/96	SMSSVOA121
2,3,4,6-Tetrachlorophenol	ND	mg/Kg	2.5	2.1	09/03/96	SMSSVOA121
Azobenzene	ND	mg/Kg	1.0	2.1	09/03/96	SMSSVOA121
Dibenz(a,h)anthracene	ND	mg/Kg	1.0	2.1	09/03/96	SMSSVOA121

Lab ID: 9608286-03A
Sample ID: CA63/7 QC

Collected: 08/22/96 13:40:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
Diesel Range OG Soil/M8015						
Diesel Range OG in Soil	ND	mg/Kg	50	1.0	08/28/96	SLFTD79
HCs DSL XT/CAL DHS 8015M	08/28/96	N/A				
HCs GAS/HDSPCE/CALDHS8015M						
HCs (Gasoline by Headspace)	ATTACHED	mg/Kg	0.10			

ID: 9608286-03B
ple ID: CA63/7 QC

Collected: 08/22/96 13:40:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
VOLATILES/SW846 8260						
Dichlorodifluoromethane	ND	mg/Kg	0.010	5.0	08/27/96	SMSVOA390
Chloromethane	ND	mg/Kg	0.0050	5.0	08/27/96	SMSVOA390
Iodomethane	ND	mg/Kg	0.0050	5.0	08/27/96	SMSVOA390
Acetone	ND	mg/Kg	0.0050	5.0	08/27/96	SMSVOA390
Bromomethane	ND	mg/Kg	0.0050	5.0	08/27/96	SMSVOA390
Vinyl Chloride	ND	mg/Kg	0.0050	5.0	08/27/96	SMSVOA390
Chloroethane	ND	mg/Kg	0.0050	5.0	08/27/96	SMSVOA390
Trichlorofluoromethane	ND	mg/Kg	0.0050	5.0	08/27/96	SMSVOA390
Freon 113	ND	mg/Kg	0.0050	5.0	08/27/96	SMSVOA390
Carbon Disulfide	ND	mg/Kg	0.0050	5.0	08/27/96	SMSVOA390
Acrolein	ND	mg/Kg	0.020	5.0	08/27/96	SMSVOA390
Methylene Chloride	ND	mg/Kg	0.010	5.0	08/27/96	SMSVOA390
1,1-Dichloroethene	ND	mg/Kg	0.0010	5.0	08/27/96	SMSVOA390
1,1-Dichloroethane	ND	mg/Kg	0.0010	5.0	08/27/96	SMSVOA390
Acrylonitrile	ND	mg/Kg	0.020	5.0	08/27/96	SMSVOA390
trans-1,2-Dichloroethene	ND	mg/Kg	0.0010	5.0	08/27/96	SMSVOA390
Chloroform	ND	mg/Kg	0.0010	5.0	08/27/96	SMSVOA390
1,2-Dichloroethane	ND	mg/Kg	0.0010	5.0	08/27/96	SMSVOA390
Vinyl Acetate	ND	mg/Kg	0.0050	5.0	08/27/96	SMSVOA390
cis-1,2-Dichloroethene	ND	mg/Kg	0.0010	5.0	08/27/96	SMSVOA390
2-Butanone (MEK)	ND	mg/Kg	0.0050	5.0	08/27/96	SMSVOA390
1,1,1-Trichloroethane	ND	mg/Kg	0.0010	5.0	08/27/96	SMSVOA390
Carbon Tetrachloride	ND	mg/Kg	0.0010	5.0	08/27/96	SMSVOA390
Bromodichloromethane	ND	mg/Kg	0.0010	5.0	08/27/96	SMSVOA390
?-Dichloropropane	ND	mg/Kg	0.0010	5.0	08/27/96	SMSVOA390
momethane	ND	mg/Kg	0.0010	5.0	08/27/96	SMSVOA390
1,3-Dichloropropene	ND	mg/Kg	0.0010	5.0	08/27/96	SMSVOA390
nloroethene	ND	mg/Kg	0.0010	5.0	08/27/96	SMSVOA390

ID: 9608286-03B
ıple ID: CA63/7 QC

Collected: 08/22/96 13:40:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
VOLATILES/SW846 8260						
Chlorodibromomethane	ND	mg/Kg	0.0010	5.0	08/27/96	SMSVOA390
Ethyl Methacrylate	ND	mg/Kg	0.0050	5.0	08/27/96	SMSVOA390
2-Chloroethylvinyl Ether	ND	mg/Kg	0.0050	5.0	08/27/96	SMSVOA390
1,1,2-Trichloroethane	ND	mg/Kg	0.0010	5.0	08/27/96	SMSVOA390
Benzene	ND	mg/Kg	0.0010	5.0	08/27/96	SMSVOA390
cis-1,3-Dichloropropene	ND	mg/Kg	0.0010	5.0	08/27/96	SMSVOA390
Bromoform	ND	mg/Kg	0.0010	5.0	08/27/96	SMSVOA390
4-Methyl-2-Pentanone (MIBK)	ND	mg/Kg	0.0050	5.0	08/27/96	SMSVOA390
Tetrachloroethene	ND	mg/Kg	0.0010	5.0	08/27/96	SMSVOA390
1,1,2,2-Tetrachloroethane	ND	mg/Kg	0.0010	5.0	08/27/96	SMSVOA390
1,2-Dibromoethane	ND	mg/Kg	0.0010	5.0	08/27/96	SMSVOA390
2-Hexanone (MBK)	ND	mg/Kg	0.0050	5.0	08/27/96	SMSVOA390
1,1,1,2-Tetrachloroethane	ND	mg/Kg	0.0010	5.0	08/27/96	SMSVOA390
Toluene	ND	mg/Kg	0.0010	5.0	08/27/96	SMSVOA390
Chlorobenzene	ND	mg/Kg	0.0010	5.0	08/27/96	SMSVOA390
Ethylbenzene	ND	mg/Kg	0.0010	5.0	08/27/96	SMSVOA390
1,4-Dichloro-2-Butene	ND	mg/Kg	0.010	5.0	08/27/96	SMSVOA390
Styrene	ND	mg/Kg	0.0010	5.0	08/27/96	SMSVOA390
P/M Xylene	ND	mg/Kg	0.0020	5.0	08/27/96	SMSVOA390
O-Xylene	ND	mg/Kg	0.0010	5.0	08/27/96	SMSVOA390
1,2,3-Trichloropropane	ND	mg/Kg	0.0010	5.0	08/27/96	SMSVOA390
Methyl-tert Butyl Ether	ND	mg/Kg	0.010	5.0	08/27/96	SMSVOA390
1,2-Dichlorobenzene	ND	mg/Kg	0.0010	5.0	08/27/96	SMSVOA390
' 3-Dichlorobenzene	ND	mg/Kg	0.0010	5.0	08/27/96	SMSVOA390
-Dichlorobenzene	ND	mg/Kg	0.0010	5.0	08/27/96	SMSVOA390

Lab ID: 9608286-03C
Sample ID: CA63/7 QC

Collected: 08/22/96 13:40:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
CVAA Hg XT/SW846 7471	08/27/96	N/A				
MERCURY (CVAA)/SW846 7471						
Mercury	ND	mg/Kg	0.15	1.0	08/28/96	SCV117
Metal(ICP) DIG /SW846 3050	08/28/96	N/A				
METALS-ICP/SW846 6010						
Silver, Ag	ND	mg/Kg	1.0	1.0	08/31/96	SIF24
Aluminum, Al	NT	mg/Kg	25			SIF24
Arsenic, As	ND	mg/Kg	3.0	1.0	08/31/96	SIF24
Barium, Ba	202	mg/Kg	0.50	1.0	08/31/96	SIF24
Beryllium, Be	NT	mg/Kg	0.50			SIF24
Calcium, Ca	NT	mg/Kg	15			SIF24
Cadmium, Cd	ND	mg/Kg	0.20	1.0	08/31/96	SIF24
Cobalt, Co	NT	mg/Kg	0.50			SIF24
Chromium, Cr	6.0	mg/Kg	1.0	1.0	08/31/96	SIF24
Copper, Cu	NT	mg/Kg	0.50			SIF24
Iron, Fe	NT	mg/Kg	15			SIF24
Potassium, K	NT	mg/Kg	10			SIF24
Magnesium, Mg	NT	mg/Kg	10			SIF24
Manganese, Mn	NT	mg/Kg	0.25			SIF24
Sodium, Na	NT	mg/Kg	15			SIF24
Nickel, Ni	2.7	mg/Kg	2.0	1.0	08/31/96	SIF24
Lead, Pb	ND	mg/Kg	2.0	1.0	08/31/96	SIF24
^ntimony, Sb	NT	mg/Kg	1.5			SIF24
ıium, Se	ND	mg/Kg	2.5	1.0	08/31/96	SIF24
dium, V	NT	mg/Kg	0.15			SIF24
, Zn	NT	mg/Kg	5.0			SIF24

ID: 9608286-03D
.ple ID: CA63/7 QC

Collected: 08/22/96 13:40:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
SVOA(SOX) Soil/SW846 8270B	08/29/96	N/A				
n-Nitrosodimethylamine	ND	mg/Kg	1.0	1.8	09/03/96	SMSSVOA121
Pyridine	ND E	mg/Kg	10	1.8	09/03/96	SMSSVOA121
Aniline	ND E	mg/Kg	10	1.8	09/03/96	SMSSVOA121
bis(2-Chloroethyl) Ether	ND	mg/Kg	0.50	1.8	09/03/96	SMSSVOA121
2-Chlorophenol	ND	mg/Kg	0.50	1.8	09/03/96	SMSSVOA121
1,3-Dichlorobenzene	ND	mg/Kg	0.50	1.8	09/03/96	SMSSVOA121
1,4-Dichlorobenzene	ND	mg/Kg	0.50	1.8	09/03/96	SMSSVOA121
Phenol	ND	mg/Kg	0.50	1.8	09/03/96	SMSSVOA121
1,2-Dichlorobenzene	ND	mg/Kg	0.50	1.8	09/03/96	SMSSVOA121
Benzyl Alcohol	ND E	mg/Kg	10	1.8	09/03/96	SMSSVOA121
bis(2-Chloroisopropyl) Ether	ND	mg/Kg	1.0	1.8	09/03/96	SMSSVOA121
2-Methylphenol / O-Cresol	ND	mg/Kg	0.50	1.8	09/03/96	SMSSVOA121
Hexachloroethane	ND	mg/Kg	0.50	1.8	09/03/96	SMSSVOA121
n-Nitroso-di-n-propylamine	ND	mg/Kg	0.50	1.8	09/03/96	SMSSVOA121
Nitrobenzene	ND	mg/Kg	0.50	1.8	09/03/96	SMSSVOA121
3/4 Methylphenol / M/P-Cresol	ND	mg/Kg	0.50	1.8	09/03/96	SMSSVOA121
Isophorone	ND	mg/Kg	0.50	1.8	09/03/96	SMSSVOA121
2-Nitrophenol	ND	mg/Kg	1.0	1.8	09/03/96	SMSSVOA121
bis(2-Chloroethoxy) Methane	ND	mg/Kg	0.50	1.8	09/03/96	SMSSVOA121
2,4-Dimethylphenol	ND	mg/Kg	1.0	1.8	09/03/96	SMSSVOA121
1,2,4-Trichlorobenzene	ND	mg/Kg	0.50	1.8	09/03/96	SMSSVOA121
Naphthalene	ND	mg/Kg	0.50	1.8	09/03/96	SMSSVOA121
Benzoic Acid	ND E	mg/Kg	10	1.8	09/03/96	SMSSVOA121
2,4-Dichlorophenol	ND	mg/Kg	1.0	1.8	09/03/96	SMSSVOA121
Chloroaniline	ND	mg/Kg	10	1.8	09/03/96	SMSSVOA121
chlorobutadiene	ND	mg/Kg	0.50	1.8	09/03/96	SMSSVOA121
hylnaphthalene	ND	mg/Kg	0.50	1.8	09/03/96	SMSSVOA121
oro-3-methylphenol	ND	mg/Kg	0.50	1.8	09/03/96	SMSSVOA121
Hexachlorocyclopentadiene	ND E	mg/Kg	10	1.8	09/03/96	SMSSVOA121
2,4,6-Trichlorophenol	ND	mg/Kg	1.0	1.8	09/03/96	SMSSVOA121
2,4,5-Trichlorophenol	ND	mg/Kg	1.0	1.8	09/03/96	SMSSVOA121
2-Chloronaphthalene	ND	mg/Kg	0.50	1.8	09/03/96	SMSSVOA121
2-Nitroaniline	ND	mg/Kg	1.0	1.8	09/03/96	SMSSVOA121
Acenaphthylene	ND	mg/Kg	0.50	1.8	09/03/96	SMSSVOA121
Dimethylphthalate	ND	mg/Kg	0.50	1.8	09/03/96	SMSSVOA121
2,6-Dinitrotoluene	ND	mg/Kg	1.0	1.8	09/03/96	SMSSVOA121
Acenaphthene	ND	mg/Kg	0.50	1.8	09/03/96	SMSSVOA121
3-Nitroaniline	ND	mg/Kg	10	1.8	09/03/96	SMSSVOA121
Dibenzofuran	ND	mg/Kg	0.50	1.8	09/03/96	SMSSVOA121
2,4-Dinitrotoluene	ND	mg/Kg	2.5	1.8	09/03/96	SMSSVOA121
Fluorene	ND	mg/Kg	0.50	1.8	09/03/96	SMSSVOA121
4-Chlorophenyl-phenylether	ND	mg/Kg	0.50	1.8	09/03/96	SMSSVOA121
Diethylphthalate	ND	mg/Kg	0.50	1.8	09/03/96	SMSSVOA121
4-Nitrophenol	ND E	mg/Kg	10	1.8	09/03/96	SMSSVOA121
4,6-Dinitro-2-methylphenol	ND E	mg/Kg	10	1.8	09/03/96	SMSSVOA121
n-Nitrosodiphenylamine	ND	mg/Kg	0.50	1.8	09/03/96	SMSSVOA121
4-Nitroaniline	ND E	mg/Kg	10	1.8	09/03/96	SMSSVOA121
4-Bromophenyl-phenylether	ND	mg/Kg	0.50	1.8	09/03/96	SMSSVOA121
Hexachlorobenzene	ND	mg/Kg	0.50	1.8	09/03/96	SMSSVOA121
Pentachlorophenol	ND E	mg/Kg	10	1.8	09/03/96	SMSSVOA121
2,4-Dinitrophenol	ND E	mg/Kg	10	1.8	09/03/96	SMSSVOA121
Phenanthrene	ND	mg/Kg	0.50	1.8	09/03/96	SMSSVOA121
Anthracene	ND	mg/Kg	0.50	1.8	09/03/96	SMSSVOA121
Di-n-butylphthalate	ND	mg/Kg	5.0	1.8	09/03/96	SMSSVOA121
Fluoranthene	ND	mg/Kg	0.50	1.8	09/03/96	SMSSVOA121
Pyrene	ND	mg/Kg	0.50	1.8	09/03/96	SMSSVOA121
Butylbenzylphthalate	ND	mg/Kg	0.50	1.8	09/03/96	SMSSVOA121
Benzo(a)anthracene	ND	mg/Kg	0.50	1.8	09/03/96	SMSSVOA121
Chrysene	ND	mg/Kg	0.50	1.8	09/03/96	SMSSVOA121
Dichlorobenzidine	ND E	mg/Kg	10	1.8	09/03/96	SMSSVOA121
Ethylhexyl)phthalate	ND	mg/Kg	2.5	1.8	09/03/96	SMSSVOA121
octyl phthalate	ND	mg/Kg	0.50	1.8	09/03/96	SMSSVOA121
Benzo(b)+(k)fluoranthene	ND	mg/Kg	0.50	1.8	09/03/96	SMSSVOA121

ID: 9608286-03D
ple ID: CA63/7 QC

Collected: 08/22/96 13:40:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
SVOA(SOX) Soil/SW846 8270B						
1-Methylnaphthalene	ND	mg/Kg	1.0	1.8	09/03/96	SMSSVOA121
Benzo(a)pyrene	ND	mg/Kg	0.50	1.8	09/03/96	SMSSVOA121
Indeno(1,2,3-cd)pyrene	ND	mg/Kg	1.0	1.8	09/03/96	SMSSVOA121
Benzo(g,h,i)perylene	ND	mg/Kg	1.0	1.8	09/03/96	SMSSVOA121
2,3,4,6-Tetrachlorophenol	ND	mg/Kg	2.5	1.8	09/03/96	SMSSVOA121
Azobenzene	ND	mg/Kg	1.0	1.8	09/03/96	SMSSVOA121
Dibenz(a,h)anthracene	ND	mg/Kg	1.0	1.8	09/03/96	SMSSVOA121

Lab ID: 9608286-04A
Sample ID: CA61/6-96-0821-1315

Collected: 08/23/96 13:15:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
BTEX/SW846 8020A						
Benzene	ND	mg/Kg	0.0010	5.0	08/27/96	SBTXME128
Toluene	ND	mg/Kg	0.0010	5.0	08/27/96	SBTXME128
Ethylbenzene	ND	mg/Kg	0.0010	5.0	08/27/96	SBTXME128
P-&m-Xylene	ND	mg/Kg	0.0010	5.0	08/27/96	SBTXME128
O-Xylene	ND	mg/Kg	0.0010	5.0	08/27/96	SBTXME128
sel Range OG Soil/M8015						
el Range OG in Soil	ND	mg/Kg	50	1.0	08/28/96	SLFTD79
SL XT/CAL DHS 8015M	08/28/96	N/A				
AS/HDSPCE/CALDHS8015M						
HCs (Gasoline by Headspace)	ATTACHED	mg/Kg	0.10			

Lab ID: 9608286-05A
Sample ID: CA62/4-96-0822-1328

Collected: 08/23/96 13:28:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
BTEX/SW846 8020A						
Benzene	ND	mg/Kg	0.0010	5.0	08/27/96	SBTXME128
Toluene	ND	mg/Kg	0.0010	5.0	08/27/96	SBTXME128
Ethylbenzene	ND	mg/Kg	0.0010	5.0	08/27/96	SBTXME128
P-&m-Xylene	ND	mg/Kg	0.0010	5.0	08/27/96	SBTXME128
O-Xylene	ND	mg/Kg	0.0010	5.0	08/27/96	SBTXME128
Diesel Range OG Soil/M8015						
Diesel Range OG in Soil	ND	mg/Kg	50	1.0	08/28/96	SLFTD79
HCs DSL XT/CAL DHS 8015M	08/28/96	N/A				
HCs GAS/HDSPCE/CALDHS8015M						
HCs (Gasoline by Headspace)	ATTACHED	mg/Kg	0.10			

Lab ID: 9608286-06A
Sample ID: CA62/2-96-0822-1328

Collected: 08/23/96 13:28:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
/SW846 8020A						
Benzene	ND	mg/Kg	0.0010	5.0	08/27/96	SBTXME128

ID: 9608286-06A
ple ID: CA62/2-96-0822-1328

Collected: 08/23/96 13:28:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
BTEX/SW846 8020A						
Toluene	ND	mg/Kg	0.0010	5.0	08/27/96	SBTXME128
Ethylbenzene	ND	mg/Kg	0.0010	5.0	08/27/96	SBTXME128
P-&m-Xylene	ND	mg/Kg	0.0010	5.0	08/27/96	SBTXME128
O-Xylene	ND	mg/Kg	0.0010	5.0	08/27/96	SBTXME128
Diesel Range OG Soil/M8015						
Diesel Range OG in Soil	17 E	mg/Kg	50	1.0	08/28/96	SLFTD79
HCs DSL XT/CAL DHS 8015M	08/28/96	N/A				
HCs GAS/HDSPCE/CALDHS8015M						
HCs (Gasoline by Headspace)	ATTACHED	mg/Kg	0.10			

Lab ID: 9608286-07A
Sample ID: CA63/5-96-0822-1340

Collected: 08/22/96 13:40:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
BTEX/SW846 8020A						
Benzene	ND	mg/Kg	0.0010	5.0	08/27/96	SBTXME128
Toluene	ND	mg/Kg	0.0010	5.0	08/27/96	SBTXME128
Ethylbenzene	ND	mg/Kg	0.0010	5.0	08/27/96	SBTXME128
-&m-Xylene	ND	mg/Kg	0.0010	5.0	08/27/96	SBTXME128
vlene	ND	mg/Kg	0.0010	5.0	08/27/96	SBTXME128
Range OG Soil/M8015						
l Range OG in Soil	ND	mg/Kg	50	1.0	08/29/96	SLFTD79
HCs DSL XT/CAL DHS 8015M	08/28/96	N/A				
HCs GAS/HDSPCE/CALDHS8015M						
HCs (Gasoline by Headspace)	ATTACHED	mg/Kg	0.10			

Fred L. Shore, Ph.D.
VP of Laboratory Operations

WORKORDER COMMENTS

DATE : 09/13/96
WORKORDER: 9608286

DEFINITIONS/DATA QUALIFIERS

The following are definitions, abbreviations, and data qualifiers which may have been utilized in your report:

ND = Analyte "not detected" in analysis at the sample specific detection limit.
D_F = Sample "dilution factor"
NT = Analyte "not tested" per client request.
B = Analyte was also detected in laboratory method QC blank.
E = Analyte concentration (result) is an estimated value or exceeds analysis calibration range.
LIMIT = The minimum amount of the analyte that AAL can detect utilizing the specified analysis.

Please Note: Multiply the "Limit" value (AAL's Detection Limit) by Dilution Factor (D_F) to obtain the sample specific Detection Limit.

*** Analytical results reported pertain only to the samples provided ***
*** for analysis and may not represent actual field conditions. ***
*** ***
*** This report is not to be reproduced except in full, without the ***
*** written approval of Assaigai Analytical Inc. ***

REPORT COMMENTS

Please note: The samples for Gasoline Range Organics were subcontracted due to the instrument not being operational. The instrument would not be properly functioning prior to the EPA recommended hold-time expiring.

Please note: The semi-volatile compounds which are flagged as "ND E", are due to the method detection limits being estimated. The data will be re-evaluated to ›ve the "estimated " qualifier when additional data has been generated to finalize the method detection limits. Additionally, none of the compounds which are flagged were found in the samples.

Please note: Fraction 06A is reported as estimated due to the result being found ɔw AAL's detection limit. The result is being provided to assist in evaluating the site.

Quanterra
Environmental Services

Client Sample ID: 8286-01A

GC Volatiles

Lot-Sample #.: I6I050124 - 003 Work Order #.: C5KG3101 Matrix.....: SOLID
Date Sampled.: 08/22/96 Date Received: 09/05/96
Prep Date....: 09/05/96 Analysis Date: 09/05/96
Prep Batch #.: 6249233
Dilution Fact: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Gasoline Range Organics	ND	100	ug/kg	SW846 8020/GRO

Quanterra
Environmental Services

Client Sample ID: 8286-02A

GC Volatiles

Lot-Sample #.: I6I050124 - 004 **Work Order #.:** C5KG4101 **Matrix.....:** SOLID
Date Sampled.: 08/22/96 **Date Received:** 09/05/96
Prep Date....: 09/05/96 **Analysis Date:** 09/05/96
Prep Batch #.: 6249233
Dilution Fact: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Gasoline Range Organics	ND	100	ug/kg	SW846 8020/GRO

Quanterra
Environmental Services

Client Sample ID: 8286-03A

GC Volatiles

Lot-Sample #.: I6I050124 - 005 **Work Order #.:** C5KG5101 **Matrix.....:** SOLID
Date Sampled.: 08/22/96 **Date Received:** 09/05/96
Prep Date....: 09/05/96 **Analysis Date:** 09/05/96
Prep Batch #.: 6249233
Dilution Fact: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Gasoline Range Organics	ND	100	ug/kg	SW846 8020/GRO

Quanterra
Environmental Services

Client Sample ID: 8286-04A

GC Volatiles

Lot-Sample #.: I6I050124 - 006 Work Order #.: C5KG6101 Matrix.....: SOLID
Date Sampled.: 08/23/96 Date Received: 09/05/96
Prep Date....: 09/05/96 Analysis Date: 09/05/96
Prep Batch #.: 6249233
Dilution Fact: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Gasoline Range Organics	ND	100	ug/kg	SW846 8020/GRO

Quanterra
Environmental Services

Client Sample ID: 8286-05A

GC Volatiles

Lot-Sample #.: I6I050124 - 007 Work Order #.: C5KG7101 Matrix.....: SOLID
Date Sampled.: 08/23/96 Date Received: 09/05/96
Prep Date....: 09/05/96 Analysis Date: 09/05/96
Prep Batch #.: 6249233
Dilution Fact: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Gasoline Range Organics	ND	100	ug/kg	SW846 8020/GRO

Quanterra
Environmental Services

Client Sample ID: 8286-06A

GC Volatiles

Lot-Sample #.: I6I050124 - 008 **Work Order #.:** C5KG8101 **Matrix.....:** SOLID
Date Sampled.: 08/23/96 **Date Received:** 09/05/96
Prep Date....: 09/05/96 **Analysis Date:** 09/05/96
Prep Batch #.: 6249233
Dilution Fact: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Gasoline Range Organics	ND	100	ug/kg	SW846 8020/GRO

Quanterra
Environmental Services

Client Sample ID: 8286-07A

GC Volatiles

Lot-Sample #.: I6I050124 - 009 Work Order #.: C5KG9101 Matrix.....: SOLID
Date Sampled.: 08/22/96 Date Received: 09/05/96
Prep Date....: 09/05/96 Analysis Date: 09/05/96
Prep Batch #.: 6249233
Dilution Fact: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Gasoline Range Organics	ND	100	ug/kg	SW846 8020/GRO

SSAIGAI ANALYTICAL LABORATORIES

Chain of Cus y Record

Lab Job no.: 8286 Date 8/26/96

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6411 LOCAL UNO
CIUDAD JUAREZ, CHIHUAHUA MEXICO 32320

Client: Cheyenne / LCT-2, INC

Project Manager / Contact: Mike Landsort

Address: 1712 S Prince St CLOVIS

Telephone No.: 505-763-1410

City / State / Zip: CLOVIS NM 88101

Fax No.: 505-769-0780

Project Name / Number: CWS Removal / DACA47-95-D-0035

Samplers: (Signature)

Contract / Purchase Order / Quote: Dan Moore

AAL FRACTION NUMBER	Field Sample Number / Location	Date	Time	Sample Type	Type / Size of Container	Preservation Temp.	Preservation Chemical	No. of Containers	TPH 8015 MOD	VOC's 8260	TAL RCRA Metals 6010	SVOC's 8270			BTEX 8020			Remarks
1A-1D	CA62/7-96-0822-1330	8/22/96	13:30	soil	9oz Glass	ice		4	X	X	X	X						CA62/7A thru CA62/7D
2A-1D	CA63/7-96-0822-1340	8/22/96	13:40	soil	9oz Glass	ice		4	X	X	X	X						CA63/7A thru CA63/7D
3A-1D	CA63/7 QC	8/22/96	13:40	soil	9oz Glass	ice		4	X	X	X	X						CA63/7QC thru CA63/7DQC
4A	CA61/6-96-0821-1315	8/23/96	13:15	soil	4oz Glass			1	X						X			correlation sample (High
5A	CA62/4-96-0822-1328	8/23/96	13:28	soil	9oz Glass			1	X						X			correlation sample 10 of 1
6A	CA62/2-96-0822-1328	8/23/96	13:28	soil	9oz Glass			1	X						X			correlation sample (Highes
7A	CA63/5-96-0822-1340	8/23/96	13:40	soil				1	X						X			correlation Sample (Highest)

Relinquished by:	Date	Received by:	Relinquished by:	Date	Received by:
Signature: [signature]	8/23/96	Signature: [signature]	Signature:	8/24/96	Signature: [signature]
Printed: Troy MacLee	Time 12:23	Printed:	Printed: Gregory Howard	Time 16:00	Printed: Mike Moore
Company: Cheyenne		Company: TNMRD	Company:		Company: AAL
Reason: shipment		Reason:	Reason:		Reason:

Method of Shipment:

Shipment No.:

Special Instructions:

Comments: Cool @ 3.0°C

After analysis, samples are to be:

- ☐ Disposed of (additional fee)
- ☐ Stored (30 days max)
- ☐ Stored over 30 days (additional fee)
- ☐ Returned to customer

COURIER

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ANALYTICAL
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Report Generated:
October 4, 1996 13:46

CERTIFICATE OF ANALYSIS
RESULTS BY SAMPLE

SENT TO: CHEYENNE BUILDING CONTRACTORS
P.O. BOX 418
CLOVIS, NM 88101

ATTN: MIKE LANDGRAF

WORKORDER # : 9609071
WORK ID : OWS REMOVAL
CLIENT CODE : CHE10
DATE RECEIVED : 09/08/96

Lab ID: 9609071-01A
Sample ID: CA70/7-96-0906-1210
Collected: 09/06/96 12:10:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
Diesel Range OG Soil/M8015						
Diesel Range OG in Soil	1500	mg/Kg	50	10	09/23/96	SDRO001
HCs DSL XT/CAL DHS 8015M	09/19/96	N/A				

ab ID: 9609071-01B
ple ID: CA70/7-96-0906-1210
Collected: 09/06/96 12:10:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
VOLATILES/SW846 8260						
Dichlorodifluoromethane	ND	mg/Kg	0.010	50	09/13/96	SMSVOA393
Chloromethane	ND	mg/Kg	0.0050	50	09/13/96	SMSVOA393
Iodomethane	ND	mg/Kg	0.0050	50	09/13/96	SMSVOA393
Acetone	ND	mg/Kg	0.0050	50	09/13/96	SMSVOA393
Bromomethane	ND	mg/Kg	0.0050	50	09/13/96	SMSVOA393
Vinyl Chloride	ND	mg/Kg	0.0050	50	09/13/96	SMSVOA393
Chloroethane	ND	mg/Kg	0.0050	50	09/13/96	SMSVOA393
Trichlorofluoromethane	ND	mg/Kg	0.0050	50	09/13/96	SMSVOA393
Freon 113 70	ND	mg/Kg	0.0050	50	09/13/96	SMSVOA393
Carbon Disulfide	ND	mg/Kg	0.0050	50	09/13/96	SMSVOA393
Acrolein	ND	mg/Kg	0.020	50	09/13/96	SMSVOA393
Methylene Chloride	ND	mg/Kg	0.010	50	09/13/96	SMSVOA393
1,1-Dichloroethene	ND	mg/Kg	0.0010	50	09/13/96	SMSVOA393
1,1-Dichloroethane	ND	mg/Kg	0.0010	50	09/13/96	SMSVOA393
Acrylonitrile	ND	mg/Kg	0.020	50	09/13/96	SMSVOA393
trans-1,2-Dichloroethene	ND	mg/Kg	0.0010	50	09/13/96	SMSVOA393
Chloroform	ND	mg/Kg	0.0010	50	09/13/96	SMSVOA393
1,2-Dichloroethane	ND	mg/Kg	0.0010	50	09/13/96	SMSVOA393
Vinyl Acetate	ND	mg/Kg	0.0050	50	09/13/96	SMSVOA393
cis-1,2-Dichloroethene	ND	mg/Kg	0.0010	50	09/13/96	SMSVOA393
2-Butanone (MEK)	ND	mg/Kg	0.0050	50	09/13/96	SMSVOA393
1,1,1-Trichloroethane	ND	mg/Kg	0.0010	50	09/13/96	SMSVOA393
Carbon Tetrachloride	ND	mg/Kg	0.0010	50	09/13/96	SMSVOA393
Bromodichloromethane	ND	mg/Kg	0.0010	50	09/13/96	SMSVOA393
1,2-Dichloropropane	ND	mg/Kg	0.0010	50	09/13/96	SMSVOA393
Dibromomethane	ND	mg/Kg	0.0010	50	09/13/96	SMSVOA393
-1,3-Dichloropropene	ND	mg/Kg	0.0010	50	09/13/96	SMSVOA393
loroethene	ND	mg/Kg	0.0010	50	09/13/96	SMSVOA393
Chlorodibromomethane	ND	mg/Kg	0.0010	50	09/13/96	SMSVOA393
Ethyl Methacrylate	ND	mg/Kg	0.0050	50	09/13/96	SMSVOA393

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ID: 9609071-01B **Collected:** 09/06/96 12:10:00
Sample ID: CA70/7-96-0906-1210 **Matrix:** SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
VOLATILES/SW846 8260						
2-Chloroethylvinyl Ether	ND	mg/Kg	0.0050	50	09/13/96	SMSVOA393
1,1,2-Trichloroethane	ND	mg/Kg	0.0010	50	09/13/96	SMSVOA393
Benzene	ND	mg/Kg	0.0010	50	09/13/96	SMSVOA393
cis-1,3-Dichloropropene	ND	mg/Kg	0.0010	50	09/13/96	SMSVOA393
Bromoform	ND	mg/Kg	0.0010	50	09/13/96	SMSVOA393
4-Methyl-2-Pentanone (MIBK)	ND	mg/Kg	0.0050	50	09/13/96	SMSVOA393
Tetrachloroethene	ND	mg/Kg	0.0010	50	09/13/96	SMSVOA393
1,1,2,2-Tetrachloroethane	ND	mg/Kg	0.0010	50	09/13/96	SMSVOA393
1,2-Dibromoethane	ND	mg/Kg	0.0010	50	09/13/96	SMSVOA393
2-Hexanone (MBK)	ND	mg/Kg	0.0050	50	09/13/96	SMSVOA393
1,1,1,2-Tetrachloroethane	ND	mg/Kg	0.0010	50	09/13/96	SMSVOA393
Toluene	ND	mg/Kg	0.0010	50	09/13/96	SMSVOA393
Chlorobenzene	ND	mg/Kg	0.0010	50	09/13/96	SMSVOA393
Ethylbenzene	0.067	mg/Kg	0.0010	50	09/13/96	SMSVOA393
1,4-Dichloro-2-Butene	ND	mg/Kg	0.010	50	09/13/96	SMSVOA393
Styrene	ND	mg/Kg	0.0010	50	09/13/96	SMSVOA393
P/M Xylene	5.6	mg/Kg	0.0020	50	09/13/96	SMSVOA393
O-Xylene	1.4	mg/Kg	0.0010	50	09/13/96	SMSVOA393
1,2,3-Trichloropropane	ND	mg/Kg	0.0010	50	09/13/96	SMSVOA393
Methyl-tert Butyl Ether	ND	mg/Kg	0.010	50	09/13/96	SMSVOA393
1,2-Dichlorobenzene	ND	mg/Kg	0.0010	50	09/13/96	SMSVOA393
1,3-Dichlorobenzene	ND	mg/Kg	0.0010	50	09/13/96	SMSVOA393
1,4-Dichlorobenzene	ND	mg/Kg	0.0010	50	09/13/96	SMSVOA393

Lab ID: 9609071-01C **Collected:** 09/06/96 12:10:00
Sample ID: CA70/7-96-0906-1210 **Matrix:** SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
SVOA(SOX) Soil/SW846 8270B	09/18/96	N/A				
n-Nitrosodimethylamine	ND	mg/Kg	1.0	1.7	10/03/96	SMSSVOA122
Pyridine	ND	mg/Kg	10	1.7	10/03/96	SMSSVOA122
Aniline	ND	mg/Kg	10	1.7	10/03/96	SMSSVOA122
bis(2-Chloroethyl) Ether	ND	mg/Kg	0.50	1.7	10/03/96	SMSSVOA122
2-Chlorophenol	ND	mg/Kg	0.50	1.7	10/03/96	SMSSVOA122
1,3-Dichlorobenzene	ND	mg/Kg	0.50	1.7	10/03/96	SMSSVOA122
1,4-Dichlorobenzene	ND	mg/Kg	0.50	1.7	10/03/96	SMSSVOA122
Phenol	ND	mg/Kg	0.50	1.7	10/03/96	SMSSVOA122
1,2-Dichlorobenzene	ND	mg/Kg	0.50	1.7	10/03/96	SMSSVOA122
Benzyl Alcohol	ND	mg/Kg	10	1.7	10/03/96	SMSSVOA122
bis(2-Chloroisopropyl) Ether	ND	mg/Kg	1.0	1.7	10/03/96	SMSSVOA122
2-Methylphenol / O-Cresol	ND	mg/Kg	0.50	1.7	10/03/96	SMSSVOA122
Hexachloroethane	ND	mg/Kg	0.50	1.7	10/03/96	SMSSVOA122
n-Nitroso-di-n-propylamine	ND	mg/Kg	0.50	1.7	10/03/96	SMSSVOA122
Nitrobenzene	ND	mg/Kg	0.50	1.7	10/03/96	SMSSVOA122
3/4 Methylphenol / M/P-Cresol	ND	mg/Kg	0.50	1.7	10/03/96	SMSSVOA122
Isophorone	ND	mg/Kg	0.50	1.7	10/03/96	SMSSVOA122
2-Nitrophenol	ND	mg/Kg	1.0	1.7	10/03/96	SMSSVOA122
bis(2-Chloroethoxy) Methane	ND	mg/Kg	0.50	1.7	10/03/96	SMSSVOA122
2,4-Dimethylphenol	ND	mg/Kg	1.0	1.7	10/03/96	SMSSVOA122
1,2,4-Trichlorobenzene	ND	mg/Kg	0.50	1.7	10/03/96	SMSSVOA122
Naphthalene	2.0	mg/Kg	0.50	1.7	10/03/96	SMSSVOA122
Benzoic Acid	ND	mg/Kg	10	1.7	10/03/96	SMSSVOA122
[illegible]4-Dichlorophenol	ND	mg/Kg	1.0	1.7	10/03/96	SMSSVOA122
[illegible]loroaniline	ND	mg/Kg	10	1.7	10/03/96	SMSSVOA122
[illegible]xachlorobutadiene	ND	mg/Kg	0.50	1.7	10/03/96	SMSSVOA122
2-Methylnaphthalene	3.2	mg/Kg	0.50	1.7	10/03/96	SMSSVOA122
4-Chloro-3-methylphenol	ND	mg/Kg	0.50	1.7	10/03/96	SMSSVOA122

ID: 9609071-01C
Sample ID: CA70/7-96-0906-1210

Collected: 09/06/96 12:10:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
SVOA(SOX) Soil/SW846 8270B						
Hexachlorocyclopentadiene	ND	mg/Kg	10	1.7	10/03/96	SMSSVOA122
2,4,6-Trichlorophenol	ND	mg/Kg	1.0	1.7	10/03/96	SMSSVOA122
2,4,5-Trichlorophenol	ND	mg/Kg	1.0	1.7	10/03/96	SMSSVOA122
2-Chloronaphthalene	ND	mg/Kg	0.50	1.7	10/03/96	SMSSVOA122
2-Nitroaniline	ND	mg/Kg	1.0	1.7	10/03/96	SMSSVOA122
Acenaphthylene	ND	mg/Kg	0.50	1.7	10/03/96	SMSSVOA122
Dimethylphthalate	ND	mg/Kg	0.50	1.7	10/03/96	SMSSVOA122
2,6-Dinitrotoluene	ND	mg/Kg	1.0	1.7	10/03/96	SMSSVOA122
Acenaphthene	ND	mg/Kg	0.50	1.7	10/03/96	SMSSVOA122
3-Nitroaniline	ND	mg/Kg	10	1.7	10/03/96	SMSSVOA122
Dibenzofuran	ND	mg/Kg	0.50	1.7	10/03/96	SMSSVOA122
2,4-Dinitrotoluene	ND	mg/Kg	2.5	1.7	10/03/96	SMSSVOA122
Fluorene	ND	mg/Kg	0.50	1.7	10/03/96	SMSSVOA122
4-Chlorophenyl-phenylether	ND	mg/Kg	0.50	1.7	10/03/96	SMSSVOA122
Diethylphthalate	ND	mg/Kg	0.50	1.7	10/03/96	SMSSVOA122
4-Nitrophenol	ND	mg/Kg	10	1.7	10/03/96	SMSSVOA122
4,6-Dinitro-2-methylphenol	ND	mg/Kg	10	1.7	10/03/96	SMSSVOA122
n-Nitrosodiphenylamine	ND	mg/Kg	0.50	1.7	10/03/96	SMSSVOA122
4-Nitroaniline	ND	mg/Kg	10	1.7	10/03/96	SMSSVOA122
4-Bromophenyl-phenylether	ND	mg/Kg	0.50	1.7	10/03/96	SMSSVOA122
Hexachlorobenzene	ND	mg/Kg	0.50	1.7	10/03/96	SMSSVOA122
Pentachlorophenol	ND	mg/Kg	10	1.7	10/03/96	SMSSVOA122
2,4-Dinitrophenol	ND	mg/Kg	10	1.7	10/03/96	SMSSVOA122
Phenanthrene	ND	mg/Kg	0.50	1.7	10/03/96	SMSSVOA122
[illegible]hracene	ND	mg/Kg	0.50	1.7	10/03/96	SMSSVOA122
[illegible]-butylphthalate	ND	mg/Kg	5.0	1.7	10/03/96	SMSSVOA122
Fluoranthene	ND	mg/Kg	0.50	1.7	10/03/96	SMSSVOA122
Pyrene	ND	mg/Kg	0.50	1.7	10/03/96	SMSSVOA122
Butylbenzylphthalate	ND	mg/Kg	0.50	1.7	10/03/96	SMSSVOA122
Benzo(a)anthracene	ND	mg/Kg	0.50	1.7	10/03/96	SMSSVOA122
Chrysene	ND	mg/Kg	0.50	1.7	10/03/96	SMSSVOA122
3,3'-Dichlorobenzidine	ND	mg/Kg	10	1.7	10/03/96	SMSSVOA122
bis(2-Ethylhexyl)phthalate	ND	mg/Kg	2.5	1.7	10/03/96	SMSSVOA122
Di-n-octyl phthalate	ND	mg/Kg	0.50	1.7	10/03/96	SMSSVOA122
Benzo(b)+(k)fluoranthene	ND	mg/Kg	0.50	1.7	10/03/96	SMSSVOA122
1-Methylnaphthalene	3.2	mg/Kg	1.0	1.7	10/03/96	SMSSVOA122
Benzo(a)pyrene	ND	mg/Kg	0.50	1.7	10/03/96	SMSSVOA122
Indeno(1,2,3-cd)pyrene	ND	mg/Kg	1.0	1.7	10/03/96	SMSSVOA122
Benzo(g,h,i)perylene	ND	mg/Kg	1.0	1.7	10/03/96	SMSSVOA122
2,3,4,6-Tetrachlorophenol	ND	mg/Kg	2.5	1.7	10/03/96	SMSSVOA122
Azobenzene	ND	mg/Kg	1.0	1.7	10/03/96	SMSSVOA122
Dibenz(a,h)anthracene	ND	mg/Kg	1.0	1.7	10/03/96	SMSSVOA122

Lab ID: 9609071-01D
Sample ID: CA70/7-96-0906-1210

Collected: 09/06/96 12:10:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
% SOLIDS(TCLP XT)EPA 160.3	100.00	% (Percent)				
CVAA Hg XT/SW846 7471	09/25/96	N/A				
Metal(ICP) DIG /SW846 3050	09/16/96	N/A				
METALS-ICP/SW846 6010						
Silver, Ag	ND	mg/Kg	1.0	1.0	09/18/96	SIF28,SCV119
[illegible]uminum, Al	NT	mg/Kg	25			SIF28,SCV119
[illegible]nic, As	ND	mg/Kg	3.0	1.0	09/18/96	SIF28,SCV119
[illegible]um, Ba	140	mg/Kg	0.50	1.0	09/18/96	SIF28,SCV119
Beryllium, Be	NT	mg/Kg	0.50			SIF28,SCV119
Calcium, Ca	NT	mg/Kg	15			SIF28,SCV119

ID: 9609071-01D
Sample ID: CA70/7-96-0906-1210

Collected: 09/06/96 12:10:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
METALS-ICP/SW846 6010						
Cadmium, Cd	ND	mg/Kg	0.20	1.0	09/18/96	SIF28,SCV119
Cobalt, Co	NT	mg/Kg	0.50			SIF28,SCV119
Chromium, Cr	7.6	mg/Kg	1.0	1.0	09/18/96	SIF28,SCV119
Copper, Cu	NT	mg/Kg	0.50			SIF28,SCV119
Iron, Fe	NT	mg/Kg	15			SIF28,SCV119
Potassium, K	NT	mg/Kg	10			SIF28,SCV119
Magnesium, Mg	NT	mg/Kg	10			SIF28,SCV119
Manganese, Mn	NT	mg/Kg	0.25			SIF28,SCV119
Sodium, Na	NT	mg/Kg	15			SIF28,SCV119
Nickel, Ni	5.6	mg/Kg	2.0	1.0	09/18/96	SIF28,SCV119
Lead, Pb	19.6	mg/Kg	2.0	1.0	09/18/96	SIF28,SCV119
Antimony, Sb	NT	mg/Kg	1.5			SIF28,SCV119
Selenium, Se	ND	mg/Kg	2.5	1.0	09/18/96	SIF28,SCV119
Vanadium, V	NT	mg/Kg	0.15			SIF28,SCV119
Zinc, Zn	NT	mg/Kg	5.0			SIF28,SCV119
TCLP (ICP) DIG/1311/3005	09/13/96	N/A				
TCLP EXTRACTION/TCLP 1311	09/12/96	N/A				
TCLP METALS/1311/SW8466010						
Arsenic, As	ND	mg/L	0.40	1.0	09/16/96	TIF16,TWCV33
Barium, Ba	2.1	mg/L	0.50	1.0	09/16/96	TIF16,TWCV33
Cadmium, Cd	ND	mg/L	0.0050	1.0	09/16/96	TIF16,TWCV33
Chromium, Cr	ND	mg/L	0.020	1.0	09/16/96	TIF16,TWCV33
Lead, Pb	ND	mg/L	0.050	1.0	09/16/96	TIF16,TWCV33
Mercury, Hg	ND	mg/L	0.0020	1.0	09/18/96	TIF16,TWCV33
[illegible]enium, Se	ND	mg/L	0.050	1.0	09/16/96	TIF16,TWCV33
[illegible]r, Ag	ND	mg/L	0.040	1.0	09/16/96	TIF16,TWCV33
[illegible]P(CVAA)Hg XT/SW846 7471	09/18/96	N/A				

Lab ID: 9609071-02A
Sample ID: CA70/3-96-0906-1200

Collected: 09/06/96 12:00:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
BTEX/SW846 8020A						
Benzene	ND	mg/Kg	0.0010	50	09/20/96	SMSVOA394
Toluene	0.097	mg/Kg	0.0010	50	09/20/96	SMSVOA394
Ethylbenzene	ND	mg/Kg	0.0010	50	09/20/96	SMSVOA394
P-&m-Xylene	0.20	mg/Kg	0.0010	50	09/20/96	SMSVOA394
O-Xylene	0.054	mg/Kg	0.0010	50	09/20/96	SMSVOA394
Diesel Range OG Soil/M8015						
Diesel Range OG in Soil	870	mg/Kg	50	5.0	09/23/96	SDRO001
HCs DSL XT/CAL DHS 8015M	09/19/96	N/A				

Fred L. Shore, Ph.D.
VP of Laboratory Operations

WORKORDER COMMENTS

DATE : 10/04/96
WORKORDER:

DEFINITIONS/DATA QUALIFIERS

The following are definitions, abbreviations, and data qualifiers which may have been utilized in your report:

ND = Analyte "not detected" in analysis at the sample specific detection limit.
D_F = Sample "dilution factor"
NT = Analyte "not tested" per client request.
B = Analyte was also detected in laboratory method QC blank.
E = Analyte concentration (result) is an estimated value or exceeds analysis calibration range.
LIMIT = The minimum amount of the analyte that AAL can detect utilizing the specified analysis.

Please Note: Multiply the "Limit" value (AAL's Detection Limit) by Dilution Factor (D_F) to obtain the sample specific Detection Limit.

*** Analytical results reported pertain only to the samples provided ***
*** for analysis and may not represent actual field conditions. ***
*** ***
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REPORT COMMENTS

ASSAIGAI ANALYTICAL LABORATORIES

Chain of Custody Record

Lab Job no.: 9071 Date 9/9/96

Page 1 of 1

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MELQUIADES ALANIS
6411 LOCAL UNO
CIUDAD JUAREZ, CHIHUAHUA MEXICO 32320

Client: Cheyenne / LCI-2

Address: 1712 S Prince st

City / State / Zip: CLOVIS NM 88101

Project Name / Number: OWS Removal

Contract / Purchase Order / Quote: DHCH97-95-D-0035

Project Manager / Contact: Mike Landgraf

Telephone No.: (505) 763-1410

Fax No.: (505) 769-0780

Samplers: (Signature)

AAL Fraction Number	Field Sample Number / Location	Date	Time	Sample Type	Type / Size of Container	Preservation Temp.	Preservation Chemical	No. of Containers		TPH 8015	VOC's 8260	SVOC's 8270	TAL RCRA Metals 6010	BTEX 8020				Remarks
1A-D	CA70/7-96-0906-1210	9/6/96	1210	soil	3:8oz, 1 4oz		ICE	4		X	X	X	X					
2A-D	CA70/3-96-0906-1200	9/6/96	1200	soil	1, 4oz		ICE	1		X				X				

Relinquished by:	Date / Time	Received by:	Relinquished by:	Date / Time	Received by:
Signature: [signature]	9/7/96	Signature: [signature]	Signature:	9/8/96	Signature: [signature]
Printed: Troy Moore	Time: 9:05AM	Printed: Sal Garza Jr	Printed: Greyhound	Time: 8:00	Printed: [illegible]
Company: Chey		Company: TNTTO	Company:		Company:
Reason: Shipment		Reason: Shipment	Reason:		Reason:

Method of Shipment: Bus

Shipment No.:

Special Instructions:

Comments: Rcvd @ 19°C

After analysis, samples are to be:

- ☐ Disposed of (additional fee)
- ☐ Stored (30 days max)
- ☐ Stored over 30 days (additional fee)
- ☐ Returned to customer

COUP

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REVISED 11/11/96

Report Generated:
November 8, 1996 12:37

CERTIFICATE OF ANALYSIS
RESULTS BY SAMPLE

SENT TO: CHEYENNE BUILDING CONTRACTORS
P.O. BOX 418
CLOVIS, NM 88101

ATTN: MIKE LANDGRAF

WORKORDER # : 9609099
WORK ID : OWS REMOVAL/DACA47-95-D-0035
CLIENT CODE : CHE10
DATE RECEIVED : 09/11/96

Lab ID: 9609099-01A
Sample ID: CA70/10-96-0910-1030
Collected: 09/10/96 10:30:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
% SOLIDS(TCLP XT)EPA 160.3	100.00	% (Percent)				
CVAA Hg XT/SW846 7471	09/19/96	N/A				
Diesel Range OG Soil/M8015						
Diesel Range OG in Soil	ND	mg/Kg	50	1.0	09/20/96	SDRO001
HCs DSL XT/CAL DHS 8015M	09/19/96	N/A				
MERCURY (CVAA)/SW846 7471						
Mercury	ND	mg/Kg	0.15	1.0	09/20/96	SCV118
CP) DIG /SW846 3050	09/16/96	N/A				
LS-ICP/SW846 6010						
Silver, Ag	ND	mg/Kg	1.0	1.0	09/18/96	SIF28
Aluminum, Al	NT	mg/Kg	25			SIF28
Arsenic, As	ND	mg/Kg	3.0	1.0	09/18/96	SIF28
Barium, Ba	716	mg/Kg	0.50	1.0	09/18/96	SIF28
Beryllium, Be	NT	mg/Kg	0.50			SIF28
Calcium, Ca	NT	mg/Kg	15			SIF28
Cadmium, Cd	ND	mg/Kg	0.20	1.0	09/18/96	SIF28
Cobalt, Co	NT	mg/Kg	0.50			SIF28
Chromium, Cr	7.3	mg/Kg	1.0	1.0	09/18/96	SIF28
Copper, Cu	NT	mg/Kg	0.50			SIF28
Iron, Fe	NT	mg/Kg	15			SIF28
Potassium, K	NT	mg/Kg	10			SIF28
Magnesium, Mg	NT	mg/Kg	10			SIF28
Manganese, Mn	NT	mg/Kg	0.25			SIF28
Sodium, Na	NT	mg/Kg	15			SIF28
Nickel, Ni	5.7	mg/Kg	2.0	1.0	09/18/96	SIF28
Lead, Pb	2.9	mg/Kg	2.0	1.0	09/18/96	SIF28
Antimony, Sb	NT	mg/Kg	1.5			SIF28
Selenium, Se	ND	mg/Kg	2.5	1.0	09/18/96	SIF28
Vanadium, V	NT	mg/Kg	0.15			SIF28
Zinc, Zn	NT	mg/Kg	5.0			SIF28
SVOA(SOX) Soil/SW846 8270B	09/18/96	N/A				
n-Nitrosodimethylamine	ND	mg/Kg	1.0	1.9	09/27/96	SMSSVOA122
Pyridine	ND	mg/Kg	10	1.9	09/27/96	SMSSVOA122
Aniline	ND	mg/Kg	10	1.9	09/27/96	SMSSVOA122
bis(2-Chloroethyl) Ether	ND	mg/Kg	0.50	1.9	09/27/96	SMSSVOA122
2-Chlorophenol	ND	mg/Kg	0.50	1.9	09/27/96	SMSSVOA122
1,3-Dichlorobenzene	ND	mg/Kg	0.50	1.9	09/27/96	SMSSVOA122
1,4-Dichlorobenzene	ND	mg/Kg	0.50	1.9	09/27/96	SMSSVOA122
Phenol	ND	mg/Kg	0.50	1.9	09/27/96	SMSSVOA122
1,2-Dichlorobenzene	ND	mg/Kg	0.50	1.9	09/27/96	SMSSVOA122
Benzyl Alcohol	ND	mg/Kg	10	1.9	09/27/96	SMSSVOA122
Chloroisopropyl) Ether	ND	mg/Kg	1.0	1.9	09/27/96	SMSSVOA122
hylphenol / O-Cresol	ND	mg/Kg	0.50	1.9	09/27/96	SMSSVOA122
Hexachloroethane	ND	mg/Kg	0.50	1.9	09/27/96	SMSSVOA122
n-Nitroso-di-n-propylamine	ND	mg/Kg	0.50	1.9	09/27/96	SMSSVOA122

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ID: 9609099-01A
Sample ID: CA70/10-96-0910-1030

Collected: 09/10/96 10:30:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
SVOA(SOX) Soil/SW846 8270B						
Nitrobenzene	ND	mg/Kg	0.50	1.9	09/27/96	SMSSVOA122
3/4 Methylphenol / M/P-Cresol	ND	mg/Kg	0.50	1.9	09/27/96	SMSSVOA122
Isophorone	ND	mg/Kg	0.50	1.9	09/27/96	SMSSVOA122
2-Nitrophenol	ND	mg/Kg	1.0	1.9	09/27/96	SMSSVOA122
bis(2-Chloroethoxy) Methane	ND	mg/Kg	0.50	1.9	09/27/96	SMSSVOA122
2,4-Dimethylphenol	ND	mg/Kg	1.0	1.9	09/27/96	SMSSVOA122
1,2,4-Trichlorobenzene	ND	mg/Kg	0.50	1.9	09/27/96	SMSSVOA122
Naphthalene	ND	mg/Kg	0.50	1.9	09/27/96	SMSSVOA122
Benzoic Acid	ND	mg/Kg	10	1.9	09/27/96	SMSSVOA122
2,4-Dichlorophenol	ND	mg/Kg	1.0	1.9	09/27/96	SMSSVOA122
4-Chloroaniline	ND	mg/Kg	10	1.9	09/27/96	SMSSVOA122
Hexachlorobutadiene	ND	mg/Kg	0.50	1.9	09/27/96	SMSSVOA122
2-Methylnaphthalene	ND	mg/Kg	0.50	1.9	09/27/96	SMSSVOA122
4-Chloro-3-methylphenol	ND	mg/Kg	0.50	1.9	09/27/96	SMSSVOA122
Hexachlorocyclopentadiene	ND	mg/Kg	10	1.9	09/27/96	SMSSVOA122
2,4,6-Trichlorophenol	ND	mg/Kg	1.0	1.9	09/27/96	SMSSVOA122
2,4,5-Trichlorophenol	ND	mg/Kg	1.0	1.9	09/27/96	SMSSVOA122
2-Chloronaphthalene	ND	mg/Kg	0.50	1.9	09/27/96	SMSSVOA122
2-Nitroaniline	ND	mg/Kg	1.0	1.9	09/27/96	SMSSVOA122
Acenaphthylene	ND	mg/Kg	0.50	1.9	09/27/96	SMSSVOA122
Dimethylphthalate	ND	mg/Kg	0.50	1.9	09/27/96	SMSSVOA122
2,6-Dinitrotoluene	ND	mg/Kg	1.0	1.9	09/27/96	SMSSVOA122
Acenaphthene	ND	mg/Kg	0.50	1.9	09/27/96	SMSSVOA122
3-Nitroaniline	ND	mg/Kg	10	1.9	09/27/96	SMSSVOA122
]ibenzofuran	ND	mg/Kg	0.50	1.9	09/27/96	SMSSVOA122
]initrotoluene	ND	mg/Kg	2.5	1.9	09/27/96	SMSSVOA122
ı rene	ND	mg/Kg	0.50	1.9	09/27/96	SMSSVOA122
4-Chlorophenyl-phenylether	ND	mg/Kg	0.50	1.9	09/27/96	SMSSVOA122
Diethylphthalate	ND	mg/Kg	0.50	1.9	09/27/96	SMSSVOA122
4-Nitrophenol	ND	mg/Kg	10	1.9	09/27/96	SMSSVOA122
4,6-Dinitro-2-methylphenol	ND	mg/Kg	10	1.9	09/27/96	SMSSVOA122
n-Nitrosodiphenylamine	ND	mg/Kg	0.50	1.9	09/27/96	SMSSVOA122
4-Nitroaniline	ND	mg/Kg	10	1.9	09/27/96	SMSSVOA122
4-Bromophenyl-phenylether	ND	mg/Kg	0.50	1.9	09/27/96	SMSSVOA122
Hexachlorobenzene	ND	mg/Kg	0.50	1.9	09/27/96	SMSSVOA122
Pentachlorophenol	ND	mg/Kg	10	1.9	09/27/96	SMSSVOA122
2,4-Dinitrophenol	ND	mg/Kg	10	1.9	09/27/96	SMSSVOA122
Phenanthrene	ND	mg/Kg	0.50	1.9	09/27/96	SMSSVOA122
Anthracene	ND	mg/Kg	0.50	1.9	09/27/96	SMSSVOA122
Di-n-butylphthalate	ND	mg/Kg	5.0	1.9	09/27/96	SMSSVOA122
Fluoranthene	ND	mg/Kg	0.50	1.9	09/27/96	SMSSVOA122
Pyrene	ND	mg/Kg	0.50	1.9	09/27/96	SMSSVOA122
Butylbenzylphthalate	ND	mg/Kg	0.50	1.9	09/27/96	SMSSVOA122
Benzo(a)anthracene	ND	mg/Kg	0.50	1.9	09/27/96	SMSSVOA122
Chrysene	ND	mg/Kg	0.50	1.9	09/27/96	SMSSVOA122
3,3'-Dichlorobenzidine	ND	mg/Kg	10	1.9	09/27/96	SMSSVOA122
bis(2-Ethylhexyl)phthalate	ND	mg/Kg	2.5	1.9	09/27/96	SMSSVOA122
Di-n-octyl phthalate	ND	mg/Kg	0.50	1.9	09/27/96	SMSSVOA122
Benzo(b)+(k)fluoranthene	ND	mg/Kg	0.50	1.9	09/27/96	SMSSVOA122
1-Methylnaphthalene	ND	mg/Kg	1.0	1.9	09/27/96	SMSSVOA122
Benzo(a)pyrene	ND	mg/Kg	0.50	1.9	09/27/96	SMSSVOA122
Indeno(1,2,3-cd)pyrene	ND	mg/Kg	1.0	1.9	09/27/96	SMSSVOA122
Benzo(g,h,i)perylene	ND	mg/Kg	1.0	1.9	09/27/96	SMSSVOA122
2,3,4,6-Tetrachlorophenol	ND	mg/Kg	2.5	1.9	09/27/96	SMSSVOA122
Azobenzene	ND	mg/Kg	1.0	1.9	09/27/96	SMSSVOA122
Dibenz(a,h)anthracene	ND	mg/Kg	1.0	1.9	09/27/96	SMSSVOA122
TCLP (ICP) DIG/1311/3005	09/13/96	N/A				
TCLP EXTRACTION/TCLP 1311	09/12/96	N/A				
·.P METALS/1311/SW8466010						
]ic, As	ND	mg/L	0.40	1.0	09/16/96	TIF16,M968
ı]m, Ba	1.5	mg/L	0.50	1.0	09/16/96	TIF16,M968
Cadmium, Cd	ND	mg/L	0.0050	1.0	09/16/96	TIF16,M968
Chromium, Cr	ND	mg/L	0.020	1.0	09/16/96	TIF16,M968

ID: 9609099-01A
Sample ID: CA70/10-96-0910-1030

Collected: 09/10/96 10:30:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
TCLP METALS/1311/SW8466010						
Lead, Pb	ND	mg/L	0.050	1.0	10/04/96	TIF16,M968
Mercury, Hg	ND	mg/L	0.0020	1.0	09/27/96	TIF16,M968
Selenium, Se	ND	mg/L	0.050	1.0	09/16/96	TIF16,M968
Silver, Ag	ND	mg/L	0.040	1.0	09/16/96	TIF16,M968
TCLP(CVAA)Hg XT/SW846 7471	09/27/96	N/A				
VOLATILES/SW846 8260						
Dichlorodifluoromethane	ND	mg/Kg	0.010	5.0	09/13/96	SMSVOA393
Chloromethane	ND	mg/Kg	0.0050	5.0	09/13/96	SMSVOA393
Iodomethane	ND	mg/Kg	0.0050	5.0	09/13/96	SMSVOA393
Acetone	ND	mg/Kg	0.0050	5.0	09/13/96	SMSVOA393
Bromomethane	ND	mg/Kg	0.0050	5.0	09/13/96	SMSVOA393
Vinyl Chloride	ND	mg/Kg	0.0050	5.0	09/13/96	SMSVOA393
Chloroethane	ND	mg/Kg	0.0050	5.0	09/13/96	SMSVOA393
Trichlorofluoromethane	ND	mg/Kg	0.0050	5.0	09/13/96	SMSVOA393
Freon 113	ND	mg/Kg	0.0050	5.0	09/13/96	SMSVOA393
Carbon Disulfide	ND	mg/Kg	0.0050	5.0	09/13/96	SMSVOA393
Acrolein	ND	mg/Kg	0.020	5.0	09/13/96	SMSVOA393
Methylene Chloride	ND	mg/Kg	0.010	5.0	09/13/96	SMSVOA393
1,1-Dichloroethene	ND	mg/Kg	0.0010	5.0	09/13/96	SMSVOA393
1,1-Dichloroethane	ND	mg/Kg	0.0010	5.0	09/13/96	SMSVOA393
Acrylonitrile	ND	mg/Kg	0.020	5.0	09/13/96	SMSVOA393
trans-1,2-Dichloroethene	ND	mg/Kg	0.0010	5.0	09/13/96	SMSVOA393
Chloroform	ND	mg/Kg	0.0010	5.0	09/13/96	SMSVOA393
1,2-Dichloroethane	ND	mg/Kg	0.0010	5.0	09/13/96	SMSVOA393
Vinyl Acetate	ND	mg/Kg	0.0050	5.0	09/13/96	SMSVOA393
2-Dichloroethene	ND	mg/Kg	0.0010	5.0	09/13/96	SMSVOA393
anone (MEK)	ND	mg/Kg	0.0050	5.0	09/13/96	SMSVOA393
1,1,1-Trichloroethane	ND	mg/Kg	0.0010	5.0	09/13/96	SMSVOA393
Carbon Tetrachloride	ND	mg/Kg	0.0010	5.0	09/13/96	SMSVOA393
Bromodichloromethane	ND	mg/Kg	0.0010	5.0	09/13/96	SMSVOA393
1,2-Dichloropropane	ND	mg/Kg	0.0010	5.0	09/13/96	SMSVOA393
Dibromomethane	ND	mg/Kg	0.0010	5.0	09/13/96	SMSVOA393
trans-1,3-Dichloropropene	ND	mg/Kg	0.0010	5.0	09/13/96	SMSVOA393
Trichloroethene	ND	mg/Kg	0.0010	5.0	09/13/96	SMSVOA393
Chlorodibromomethane	ND	mg/Kg	0.0010	5.0	09/13/96	SMSVOA393
Ethyl Methacrylate	ND	mg/Kg	0.0050	5.0	09/13/96	SMSVOA393
2-Chloroethylvinyl Ether	ND	mg/Kg	0.0050	5.0	09/13/96	SMSVOA393
1,1,2-Trichloroethane	ND	mg/Kg	0.0010	5.0	09/13/96	SMSVOA393
Benzene	ND	mg/Kg	0.0010	5.0	09/13/96	SMSVOA393
cis-1,3-Dichloropropene	ND	mg/Kg	0.0010	5.0	09/13/96	SMSVOA393
Bromoform	ND	mg/Kg	0.0010	5.0	09/13/96	SMSVOA393
4-Methyl-2-Pentanone (MIBK)	ND	mg/Kg	0.0050	5.0	09/13/96	SMSVOA393
Tetrachloroethene	ND	mg/Kg	0.0010	5.0	09/13/96	SMSVOA393
1,1,2,2-Tetrachloroethane	ND	mg/Kg	0.0010	5.0	09/13/96	SMSVOA393
1,2-Dibromoethane	ND	mg/Kg	0.0010	5.0	09/13/96	SMSVOA393
2-Hexanone (MBK)	ND	mg/Kg	0.0050	5.0	09/13/96	SMSVOA393
1,1,1,2-Tetrachloroethane	ND	mg/Kg	0.0010	5.0	09/13/96	SMSVOA393
Toluene	ND	mg/Kg	0.0010	5.0	09/13/96	SMSVOA393
Chlorobenzene	ND	mg/Kg	0.0010	5.0	09/13/96	SMSVOA393
Ethylbenzene	ND	mg/Kg	0.0010	5.0	09/13/96	SMSVOA393
1,4-Dichloro-2-Butene	ND	mg/Kg	0.010	5.0	09/13/96	SMSVOA393
Styrene	ND	mg/Kg	0.0010	5.0	09/13/96	SMSVOA393
P/M Xylene	ND	mg/Kg	0.0020	5.0	09/13/96	SMSVOA393
O-Xylene	ND	mg/Kg	0.0010	5.0	09/13/96	SMSVOA393
1,2,3-Trichloropropane	ND	mg/Kg	0.0010	5.0	09/13/96	SMSVOA393
Methyl-tert Butyl Ether	ND	mg/Kg	0.010	5.0	09/13/96	SMSVOA393
1,2-Dichlorobenzene	ND	mg/Kg	0.0010	5.0	09/13/96	SMSVOA393
1,3-Dichlorobenzene	ND	mg/Kg	0.0010	5.0	09/13/96	SMSVOA393
1,4-Dichlorobenzene	ND	mg/Kg	0.0010	5.0	09/13/96	SMSVOA393

ID: 9609099-01B
Sample ID: CA70/11-96-0910-1031

Collected: 09/10/96 10:31:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
% SOLIDS(TCLP XT)EPA 160.3	100.00	% (Percent)				
CVAA Hg XT/SW846 7471	09/19/96	N/A				
Diesel Range OG Soil/M8015						
Diesel Range OG in Soil	ND	mg/Kg	50	1.0	09/23/96	SDRO001
HCs DSL XT/CAL DHS 8015M	09/19/96	N/A				
MERCURY (CVAA)/SW846 7471						
Mercury	ND	mg/Kg	0.15	1.0	09/20/96	SCV118
Metal(ICP) DIG /SW846 3050	09/16/96	N/A				
METALS-ICP/SW846 6010						
Silver, Ag	NT	mg/Kg	1.0			SIF28
Aluminum, Al	NT	mg/Kg	25			SIF28
Arsenic, As	ND	mg/Kg	3.0	1.0	09/18/96	SIF28
Barium, Ba	539	mg/Kg	0.50	1.0	09/18/96	SIF28
Beryllium, Be	NT	mg/Kg	0.50			SIF28
Calcium, Ca	NT	mg/Kg	15			SIF28
Cadmium, Cd	ND	mg/Kg	0.20	1.0	09/18/96	SIF28
Cobalt, Co	NT	mg/Kg	0.50			SIF28
Chromium, Cr	6.4	mg/Kg	1.0	1.0	09/18/96	SIF28
Copper, Cu	NT	mg/Kg	0.50			SIF28
Iron, Fe	NT	mg/Kg	15			SIF28
Potassium, K	NT	mg/Kg	10			SIF28
Magnesium, Mg	NT	mg/Kg	10			SIF28
Manganese, Mn	NT	mg/Kg	0.25			SIF28
Sodium, Na	NT	mg/Kg	15			SIF28
Nickel, Ni	3.6	mg/Kg	2.0	1.0	09/18/96	SIF28
·ad, Pb	ND	mg/Kg	2.0	1.0	09/18/96	SIF28
›ony, Sb	NT	mg/Kg	1.5			SIF28
ıum, Se	ND	mg/Kg	2.5	1.0	09/18/96	SIF28
Vanadium, V	NT	mg/Kg	0.15			SIF28
Zinc, Zn	NT	mg/Kg	5.0			SIF28
SVOA(SOX) Soil/SW846 8270B	09/18/96	N/A				
n-Nitrosodimethylamine	ND	mg/Kg	1.0	2.1	09/27/96	SMSSVOA122
Pyridine	ND	mg/Kg	10	2.1	09/27/96	SMSSVOA122
Aniline	ND	mg/Kg	10	2.1	09/27/96	SMSSVOA122
bis(2-Chloroethyl) Ether	ND	mg/Kg	0.50	2.1	09/27/96	SMSSVOA122
2-Chlorophenol	ND	mg/Kg	0.50	2.1	09/27/96	SMSSVOA122
1,3-Dichlorobenzene	ND	mg/Kg	0.50	2.1	09/27/96	SMSSVOA122
1,4-Dichlorobenzene	ND	mg/Kg	0.50	2.1	09/27/96	SMSSVOA122
Phenol	ND	mg/Kg	0.50	2.1	09/27/96	SMSSVOA122
1,2-Dichlorobenzene	ND	mg/Kg	0.50	2.1	09/27/96	SMSSVOA122
Benzyl Alcohol	ND	mg/Kg	10	2.1	09/27/96	SMSSVOA122
bis(2-Chloroisopropyl) Ether	ND	mg/Kg	1.0	2.1	09/27/96	SMSSVOA122
2-Methylphenol / O-Cresol	ND	mg/Kg	0.50	2.1	09/27/96	SMSSVOA122
Hexachloroethane	ND	mg/Kg	0.50	2.1	09/27/96	SMSSVOA122
n-Nitroso-di-n-propylamine	ND	mg/Kg	0.50	2.1	09/27/96	SMSSVOA122
Nitrobenzene	ND	mg/Kg	0.50	2.1	09/27/96	SMSSVOA122
3/4 Methylphenol / M/P-Cresol	ND	mg/Kg	0.50	2.1	09/27/96	SMSSVOA122
Isophorone	ND	mg/Kg	0.50	2.1	09/27/96	SMSSVOA122
2-Nitrophenol	ND	mg/Kg	1.0	2.1	09/27/96	SMSSVOA122
bis(2-Chloroethoxy) Methane	ND	mg/Kg	0.50	2.1	09/27/96	SMSSVOA122
2,4-Dimethylphenol	ND	mg/Kg	1.0	2.1	09/27/96	SMSSVOA122
1,2,4-Trichlorobenzene	ND	mg/Kg	0.50	2.1	09/27/96	SMSSVOA122
Naphthalene	ND	mg/Kg	0.50	2.1	09/27/96	SMSSVOA122
Benzoic Acid	ND	mg/Kg	10	2.1	09/27/96	SMSSVOA122
2,4-Dichlorophenol	ND	mg/Kg	1.0	2.1	09/27/96	SMSSVOA122
4-Chloroaniline	ND	mg/Kg	10	2.1	09/27/96	SMSSVOA122
Hexachlorobutadiene	ND	mg/Kg	0.50	2.1	09/27/96	SMSSVOA122
2-Methylnaphthalene	ND	mg/Kg	0.50	2.1	09/27/96	SMSSVOA122
4-Chloro-3-methylphenol	ND	mg/Kg	0.50	2.1	09/27/96	SMSSVOA122
xachlorocyclopentadiene	ND	mg/Kg	10	2.1	09/27/96	SMSSVOA122
Trichlorophenol	ND	mg/Kg	1.0	2.1	09/27/96	SMSSVOA122
·Trichlorophenol	ND	mg/Kg	1.0	2.1	09/27/96	SMSSVOA122
2-Chloronaphthalene	ND	mg/Kg	0.50	2.1	09/27/96	SMSSVOA122
2-Nitroaniline	ND	mg/Kg	1.0	2.1	09/27/96	SMSSVOA122

ID: 9609099-01B **Collected:** 09/10/96 10:31:00
Sample ID: CA70/11-96-0910-1031 **Matrix:** SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
SVOA(SOX) Soil/SW846 8270B						
Acenaphthylene	ND	mg/Kg	0.50	2.1	09/27/96	SMSSVOA122
Dimethylphthalate	ND	mg/Kg	0.50	2.1	09/27/96	SMSSVOA122
2,6-Dinitrotoluene	ND	mg/Kg	1.0	2.1	09/27/96	SMSSVOA122
Acenaphthene	ND	mg/Kg	0.50	2.1	09/27/96	SMSSVOA122
3-Nitroaniline	ND	mg/Kg	10	2.1	09/27/96	SMSSVOA122
Dibenzofuran	ND	mg/Kg	0.50	2.1	09/27/96	SMSSVOA122
2,4-Dinitrotoluene	ND	mg/Kg	2.5	2.1	09/27/96	SMSSVOA122
Fluorene	ND	mg/Kg	0.50	2.1	09/27/96	SMSSVOA122
4-Chlorophenyl-phenylether	ND	mg/Kg	0.50	2.1	09/27/96	SMSSVOA122
Diethylphthalate	ND	mg/Kg	0.50	2.1	09/27/96	SMSSVOA122
4-Nitrophenol	ND	mg/Kg	10	2.1	09/27/96	SMSSVOA122
4,6-Dinitro-2-methylphenol	ND	mg/Kg	10	2.1	09/27/96	SMSSVOA122
n-Nitrosodiphenylamine	ND	mg/Kg	0.50	2.1	09/27/96	SMSSVOA122
4-Nitroaniline	ND	mg/Kg	10	2.1	09/27/96	SMSSVOA122
4-Bromophenyl-phenylether	ND	mg/Kg	0.50	2.1	09/27/96	SMSSVOA122
Hexachlorobenzene	ND	mg/Kg	0.50	2.1	09/27/96	SMSSVOA122
Pentachlorophenol	ND	mg/Kg	10	2.1	09/27/96	SMSSVOA122
2,4-Dinitrophenol	ND	mg/Kg	10	2.1	09/27/96	SMSSVOA122
Phenanthrene	ND	mg/Kg	0.50	2.1	09/27/96	SMSSVOA122
Anthracene	ND	mg/Kg	0.50	2.1	09/27/96	SMSSVOA122
Di-n-butylphthalate	27	mg/Kg	5.0	2.1	09/27/96	SMSSVOA122
Fluoranthene	ND	mg/Kg	0.50	2.1	09/27/96	SMSSVOA122
Pyrene	ND	mg/Kg	0.50	2.1	09/27/96	SMSSVOA122
Butylbenzylphthalate	ND	mg/Kg	0.50	2.1	09/27/96	SMSSVOA122
nzo(a)anthracene	ND	mg/Kg	0.50	2.1	09/27/96	SMSSVOA122
sene	ND	mg/Kg	0.50	2.1	09/27/96	SMSSVOA122
5, -Dichlorobenzidine	ND	mg/Kg	10	2.1	09/27/96	SMSSVOA122
bis(2-Ethylhexyl)phthalate	9.6	mg/Kg	2.5	2.1	09/27/96	SMSSVOA122
Di-n-octyl phthalate	ND	mg/Kg	0.50	2.1	09/27/96	SMSSVOA122
Benzo(b)+(k)fluoranthene	ND	mg/Kg	0.50	2.1	09/27/96	SMSSVOA122
1-Methylnaphthalene	ND	mg/Kg	1.0	2.1	09/27/96	SMSSVOA122
Benzo(a)pyrene	ND	mg/Kg	0.50	2.1	09/27/96	SMSSVOA122
Indeno(1,2,3-cd)pyrene	ND	mg/Kg	1.0	2.1	09/27/96	SMSSVOA122
Benzo(g,h,i)perylene	ND	mg/Kg	1.0	2.1	09/27/96	SMSSVOA122
2,3,4,6-Tetrachlorophenol	ND	mg/Kg	2.5	2.1	09/27/96	SMSSVOA122
Azobenzene	ND	mg/Kg	1.0	2.1	09/27/96	SMSSVOA122
Dibenz(a,h)anthracene	ND	mg/Kg	1.0	2.1	09/27/96	SMSSVOA122
TCLP (ICP) DIG/1311/3005	09/13/96	N/A				
TCLP EXTRACTION/TCLP 1311	09/12/96	N/A				
TCLP METALS/1311/SW8466010						
Arsenic, As	ND	mg/L	0.40	1.0	09/16/96	TIF16,M968
Barium, Ba	1.6	mg/L	0.50	1.0	09/16/96	TIF16,M968
Cadmium, Cd	ND	mg/L	0.0050	1.0	09/16/96	TIF16,M968
Chromium, Cr	ND	mg/L	0.020	1.0	09/16/96	TIF16,M968
Lead, Pb	ND	mg/L	0.050	1.0	10/04/96	TIF16,M968
Mercury, Hg	ND	mg/L	0.0020	1.0	09/27/96	TIF16,M968
Selenium, Se	ND	mg/L	0.050	1.0	09/16/96	TIF16,M968
Silver, Ag	ND	mg/L	0.040	1.0	09/16/96	TIF16,M968
TCLP(CVAA)Hg XT/SW846 7471	09/27/96	N/A				
VOLATILES/SW846 8260						
Dichlorodifluoromethane	ND	mg/Kg	0.010	5.0	09/13/96	SMSVOA393
Chloromethane	ND	mg/Kg	0.0050	5.0	09/13/96	SMSVOA393
Iodomethane	ND	mg/Kg	0.0050	5.0	09/13/96	SMSVOA393
Acetone	ND	mg/Kg	0.0050	5.0	09/13/96	SMSVOA393
Bromomethane	ND	mg/Kg	0.0050	5.0	09/13/96	SMSVOA393
Vinyl Chloride	ND	mg/Kg	0.0050	5.0	09/13/96	SMSVOA393
Chloroethane	ND	mg/Kg	0.0050	5.0	09/13/96	SMSVOA393
Trichlorofluoromethane	ND	mg/Kg	0.0050	5.0	09/13/96	SMSVOA393
on 113	ND	mg/Kg	0.0050	5.0	09/13/96	SMSVOA393
on Disulfide	ND	mg/Kg	0.0050	5.0	09/13/96	SMSVOA393
olein	ND	mg/Kg	0.020	5.0	09/13/96	SMSVOA393
Methylene Chloride	ND	mg/Kg	0.010	5.0	09/13/96	SMSVOA393
1,1-Dichloroethene	ND	mg/Kg	0.0010	5.0	09/13/96	SMSVOA393

ID: 9609099-01B
Sample ID: CA70/11-96-0910-1031

Collected: 09/10/96 10:31:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
VOLATILES/SW846 8260						
1,1-Dichloroethane	ND	mg/Kg	0.0010	5.0	09/13/96	SMSVOA393
Acrylonitrile	ND	mg/Kg	0.020	5.0	09/13/96	SMSVOA393
trans-1,2-Dichloroethene	ND	mg/Kg	0.0010	5.0	09/13/96	SMSVOA393
Chloroform	ND	mg/Kg	0.0010	5.0	09/13/96	SMSVOA393
1,2-Dichloroethane	ND	mg/Kg	0.0010	5.0	09/13/96	SMSVOA393
Vinyl Acetate	ND	mg/Kg	0.0050	5.0	09/13/96	SMSVOA393
cis-1,2-Dichloroethene	ND	mg/Kg	0.0010	5.0	09/13/96	SMSVOA393
2-Butanone (MEK)	ND	mg/Kg	0.0050	5.0	09/13/96	SMSVOA393
1,1,1-Trichloroethane	ND	mg/Kg	0.0010	5.0	09/13/96	SMSVOA393
Carbon Tetrachloride	ND	mg/Kg	0.0010	5.0	09/13/96	SMSVOA393
Bromodichloromethane	ND	mg/Kg	0.0010	5.0	09/13/96	SMSVOA393
1,2-Dichloropropane	ND	mg/Kg	0.0010	5.0	09/13/96	SMSVOA393
Dibromomethane	ND	mg/Kg	0.0010	5.0	09/13/96	SMSVOA393
trans-1,3-Dichloropropene	ND	mg/Kg	0.0010	5.0	09/13/96	SMSVOA393
Trichloroethene	ND	mg/Kg	0.0010	5.0	09/13/96	SMSVOA393
Chlorodibromomethane	ND	mg/Kg	0.0010	5.0	09/13/96	SMSVOA393
Ethyl Methacrylate	ND	mg/Kg	0.0050	5.0	09/13/96	SMSVOA393
2-Chloroethylvinyl Ether	ND	mg/Kg	0.0050	5.0	09/13/96	SMSVOA393
1,1,2-Trichloroethane	ND	mg/Kg	0.0010	5.0	09/13/96	SMSVOA393
Benzene	ND	mg/Kg	0.0010	5.0	09/13/96	SMSVOA393
cis-1,3-Dichloropropene	ND	mg/Kg	0.0010	5.0	09/13/96	SMSVOA393
Bromoform	ND	mg/Kg	0.0010	5.0	09/13/96	SMSVOA393
4-Methyl-2-Pentanone (MIBK)	ND	mg/Kg	0.0050	5.0	09/13/96	SMSVOA393
Tetrachloroethene	ND	mg/Kg	0.0010	5.0	09/13/96	SMSVOA393
1,2,2-Tetrachloroethane	ND	mg/Kg	0.0010	5.0	09/13/96	SMSVOA393
ibromoethane	ND	mg/Kg	0.0010	5.0	09/13/96	SMSVOA393
xanone (MBK)	ND	mg/Kg	0.0050	5.0	09/13/96	SMSVOA393
1,1,1,2-Tetrachloroethane	ND	mg/Kg	0.0010	5.0	09/13/96	SMSVOA393
Toluene	ND	mg/Kg	0.0010	5.0	09/13/96	SMSVOA393
Chlorobenzene	ND	mg/Kg	0.0010	5.0	09/13/96	SMSVOA393
Ethylbenzene	ND	mg/Kg	0.0010	5.0	09/13/96	SMSVOA393
1,4-Dichloro-2-Butene	ND	mg/Kg	0.010	5.0	09/13/96	SMSVOA393
Styrene	ND	mg/Kg	0.0010	5.0	09/13/96	SMSVOA393
P/M Xylene	ND	mg/Kg	0.0020	5.0	09/13/96	SMSVOA393
O-Xylene	ND	mg/Kg	0.0010	5.0	09/13/96	SMSVOA393
1,2,3-Trichloropropane	ND	mg/Kg	0.0010	5.0	09/13/96	SMSVOA393
Methyl-tert Butyl Ether	ND	mg/Kg	0.010	5.0	09/13/96	SMSVOA393
1,2-Dichlorobenzene	ND	mg/Kg	0.0010	5.0	09/13/96	SMSVOA393
1,3-Dichlorobenzene	ND	mg/Kg	0.0010	5.0	09/13/96	SMSVOA393
1,4-Dichlorobenzene	ND	mg/Kg	0.0010	5.0	09/13/96	SMSVOA393

Fred L. Shore, Ph.D.
VP of Laboratory Operations

WORKORDER COMMENTS

DATE : 11/08/96
WORKORDER:

DEFINITIONS/DATA QUALIFIERS

The following are definitions, abbreviations, and data qualifiers which may have been utilized in your report:

ND = Analyte "not detected" in analysis at the sample specific detection limit.
D_F = Sample "dilution factor"
NT = Analyte "not tested" per client request.
B = Analyte was also detected in laboratory method QC blank.
E = Analyte concentration (result) is an estimated value or exceeds analysis calibration range.
LIMIT = The minimum amount of the analyte that AAL can detect utilizing the specified analysis.

Please Note: Multiply the "Limit" value (AAL's Detection Limit) by Dilution Factor (D_F) to obtain the sample specific Detection Limit.

*** Analytical results reported pertain only to the samples provided ***
*** for analysis and may not represent actual field conditions. ***
*** ***
*** This report is not to be reproduced except in full, without the ***
*** written approval of Assaigai Analytical Inc. ***

REPORT COMMENTS

SAIGAI ANALYTICAL LABORATORIES

Chain of Custody Record

Lab job no.: 10112 Date 10/14/96

Page 1 of 1

7300 JEFFERSON, N.E.
ALBUQUERQUE, NEW MEXICO 87
(505) 345-8964

3332 WEDGEWOOD
EL PASO, TEXAS 79925
(915) 593-6000

1910 N. BIG SPRING
MIDLAND, TEXAS 79705
(915) 570-1116

MELQUIADES ALANIS
6411 LOCAL UNO
CIUDAD JUAREZ, CHIHUAHUA MEXICO 32320

Client: Cheyenne/LCI-2, INC

Address: 1712 S Prince St

City / State / Zip: CLOVIS NM 88101

Project Name / Number: DACA47-95-D-0035

Contract / Purchase Order / Quote: Don Moore

Project Manager / Contact: Mike Lowdgrot

Telephone No.: 505-763-1410

Fax No.: 505-769-0750

Samplers: (Signature) Troy Moralez

Laboratory Number	Field Sample Number / Location	Date	Time	Sample Type	Type / Size of Container	Preservation Temp.	Preservation Chemical	No. of Containers	8015 MOD TRPH	8260 VOA's	8270 Semi-VOA's	1311 TCLP						Remarks
1A-D	CA112/7-96-1009-1135	10/9/96	11:35	soil	1=4oz & 3=8oz glass	ICE		4	X	X	X	X						
2A-D	CA112/8-96-1009-1430	10/9/96	2:30	soil	"	ICE		4	X	X	X	X						
3H	CA70/14-96-1009-1400	10/9/96	2:00	soil	8 oz glass		"	1				X						sand trap contents
4H	CA70/15-96-1009-1401	10/9/96	2:01	soil	"		"	1				X						tank contents
5H	CA70/12-96-1009-1434	10/9/96	2:34	soil	"		"	1				X						excavated material

Relinquished by:	Date	Received by:	Relinquished by:	Date	Received by:
Signature: [signature]	10/10/96	Signature: [signature]	Signature:	10/11/96	Signature: [signature]
Printed: Troy Moralez	Time: 11:00 AM	Printed: Sally Gonzales	Printed:	Time: 945	Printed:
Company: Chey/LCI-C		Company: Tetra Tech	Company: TNMED		Company: AOL
Reason: Shipment		Reason: Shipment	Reason: Transport		Reason:

Method of Shipment:

Shipment No.

Special Instructions:

Comments:

After analysis, samples are to be:

- ☐ Disposed of (additional fee)
- ☐ Stored (30 days max)
- ☐ Stored over 30 days (additional fee)
- ☐ Returned to customer

ASSAIGAI
ANALYTICAL
LABORATORIES, INC.
7300 Jefferson, N.E. • Albuquerque, New Mexico 87109 • (505) 345-8964 • FAX (505) 345-7259
3332 Wedgewood, E-5 • El Paso, Texas 79925 • (915) 593-6000 • FAX (915) 593-7820

Report Generated:
October 8, 1996 15:21

CERTIFICATE OF ANALYSIS
RESULTS BY SAMPLE

SENT TO: CHEYENNE BUILDING CONTRACTORS
P.O. BOX 418
CLOVIS, NM 88101

ATTN: MIKE LANDGRAF

WORKORDER # : 9609160
WORK ID : DACA47-95-D-0035
CLIENT CODE : CHE10
DATE RECEIVED : 09/17/96

Lab ID: 9609160-01A
Sample ID: CA70/12-96-0916-1155
Collected: 09/15/96 11:55:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
% SOLIDS(TCLP XT)EPA 160.3	100.00	% (Percent)				
CVAA Hg XT/SW846 7471	09/19/96	N/A				
MERCURY (CVAA)/SW846 7471						
Mercury	ND	mg/Kg	0.15	1.0	09/20/96	SCV118
Metal(ICP) DIG /SW846 3050	09/26/96	N/A				
METALS-ICP/SW846 6010						
Silver, Ag	ND	mg/Kg	1.0	1.0	10/03/96	SIF32
Aluminum, Al	NT	mg/Kg	25			SIF32
Arsenic, As	ND	mg/Kg	3.0	1.0	10/03/96	SIF32
Barium, Ba	322	mg/Kg	0.50	1.0	10/08/96	SIF32
Beryllium, Be	NT	mg/Kg	0.50			SIF32
Calcium, Ca	NT	mg/Kg	15			SIF32
Cadmium, Cd	ND	mg/Kg	0.20	1.0	10/03/96	SIF32
Cobalt, Co	NT	mg/Kg	0.50			SIF32
Chromium, Cr	5.6	mg/Kg	1.0	1.0	10/04/96	SIF32
Copper, Cu	NT	mg/Kg	0.50			SIF32
Iron, Fe	NT	mg/Kg	15			SIF32
Potassium, K	NT	mg/Kg	10			SIF32
Magnesium, Mg	NT	mg/Kg	10			SIF32
Manganese, Mn	NT	mg/Kg	0.25			SIF32
Sodium, Na	NT	mg/Kg	15			SIF32
Nickel, Ni	5.9	mg/Kg	2.0	1.0	10/03/96	SIF32
Lead, Pb	19.5	mg/Kg	2.0	1.0	10/03/96	SIF32
Antimony, Sb	NT	mg/Kg	1.5			SIF32
Selenium, Se	ND	mg/Kg	2.5	1.0	10/03/96	SIF32
Vanadium, V	NT	mg/Kg	0.15			SIF32
Zinc, Zn	NT	mg/Kg	5.0			SIF32
TCLP (ICP) DIG/1311/3005	09/23/96	N/A				
TCLP EXTRACTION/TCLP 1311	09/19/96	N/A				
TCLP METALS/1311/SW8466010						
Arsenic, As	ND	mg/L	0.40	1.0	09/25/96	TIF17,TWCV35
Barium, Ba	1.5	mg/L	0.50	1.0	09/25/96	TIF17,TWCV35
Cadmium, Cd	ND	mg/L	0.0050	1.0	09/25/96	TIF17,TWCV35
Chromium, Cr	ND	mg/L	0.020	1.0	09/25/96	TIF17,TWCV35
Lead, Pb	ND	mg/L	0.050	1.0	09/27/96	TIF17,TWCV35
Mercury, Hg	ND	mg/L	0.0020	1.0	09/27/96	TIF17,TWCV35
Selenium, Se	ND	mg/L	0.050	1.0	09/27/96	TIF17,TWCV35
Silver, Ag	ND	mg/L	0.040	1.0	09/25/96	TIF17,TWCV35
TCLP(CVAA)Hg XT/SW846 7471	09/27/96	N/A				

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PRODUCT ENDORSEMENT BY THE NATIONAL VOLUNTARY LABORATORY ACCREDITATION PROGRAM.

ID: 9609160-01B
Sample ID: CA70/12-96-0916-1155

Collected: 09/15/96 11:55:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
SAMPLE HOLD	N/A	N/A				

Lab ID: 9609160-02A
Sample ID: CA62/9-96-0916-1140

Collected: 09/16/96 11:40:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
% SOLIDS(TCLP XT)EPA 160.3	100.00	% (Percent)				
CVAA Hg XT/SW846 7471	09/19/96	N/A				
MERCURY (CVAA)/SW846 7471						
Mercury	ND	mg/Kg	0.15	1.0	09/20/96	SCV118
Metal(ICP) DIG /SW846 3050	09/26/96	N/A				
METALS-ICP/SW846 6010						
Silver, Ag	ND	mg/Kg	1.0	1.0	10/03/96	SIF32
Aluminum, Al	NT	mg/Kg	25			SIF32
Arsenic, As	ND	mg/Kg	3.0	1.0	10/03/96	SIF32
Barium, Ba	53.0	mg/Kg	0.50	1.0	10/08/96	SIF32
Beryllium, Be	NT	mg/Kg	0.50			SIF32
Calcium, Ca	NT	mg/Kg	15			SIF32
Cadmium, Cd	ND	mg/Kg	0.20	1.0	10/03/96	SIF32
Cobalt, Co	NT	mg/Kg	0.50			SIF32
nium, Cr	8.2	mg/Kg	1.0	1.0	10/04/96	SIF32
er, Cu	NT	mg/Kg	0.50			SIF32
Iron, Fe	NT	mg/Kg	15			SIF32
Potassium, K	NT	mg/Kg	10			SIF32
Magnesium, Mg	NT	mg/Kg	10			SIF32
Manganese, Mn	NT	mg/Kg	0.25			SIF32
Sodium, Na	NT	mg/Kg	15			SIF32
Nickel, Ni	7.5	mg/Kg	2.0	1.0	10/03/96	SIF32
Lead, Pb	6.9	mg/Kg	2.0	1.0	10/03/96	SIF32
Antimony, Sb	NT	mg/Kg	1.5			SIF32
Selenium, Se	ND	mg/Kg	2.5	1.0	10/03/96	SIF32
Vanadium, V	NT	mg/Kg	0.15			SIF32
Zinc, Zn	NT	mg/Kg	5.0			SIF32
TCLP (ICP) DIG/1311/3005	09/23/96	N/A				
TCLP EXTRACTION/TCLP 1311	09/19/96	N/A				
TCLP METALS/1311/SW8466010						
Arsenic, As	ND	mg/L	0.40	1.0	09/25/96	TIF17,TWCV35
Barium, Ba	1.2	mg/L	0.50	1.0	09/25/96	TIF17,TWCV35
Cadmium, Cd	ND	mg/L	0.0050	1.0	09/25/96	TIF17,TWCV35
Chromium, Cr	ND	mg/L	0.020	1.0	09/25/96	TIF17,TWCV35
Lead, Pb	ND	mg/L	0.050	1.0	09/27/96	TIF17,TWCV35
Mercury, Hg	ND	mg/L	0.0020	1.0	09/27/96	TIF17,TWCV35
Selenium, Se	ND	mg/L	0.050	1.0	09/27/96	TIF17,TWCV35
Silver, Ag	ND	mg/L	0.040	1.0	09/25/96	TIF17,TWCV35
TCLP(CVAA)Hg XT/SW846 7471	09/27/96	N/A				

Lab ID: 9609160-02B
Sample ID: CA62/9-96-0916-1140

Collected: 09/16/96 11:40:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
SAMPLE HOLD	N/A	N/A				

ID: 9609160-03A **Collected:** 09/16/96 11:50:00
Sample ID: CA61/9-96-0916-1150 **Matrix:** SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
% SOLIDS(TCLP XT)EPA 160.3	100.00	% (Percent)				
CVAA Hg XT/SW846 7471	09/19/96	N/A				
MERCURY (CVAA)/SW846 7471						
Mercury	ND	mg/Kg	0.15	1.0	09/20/96	SCV118
Metal(ICP) DIG /SW846 3050	09/26/96	N/A				
METALS-ICP/SW846 6010						
Silver, Ag	ND	mg/Kg	1.0	1.0	10/03/96	SIF32
Aluminum, Al	NT	mg/Kg	25			SIF32
Arsenic, As	3.3	mg/Kg	3.0	1.0	10/03/96	SIF32
Barium, Ba	46.2	mg/Kg	0.50	1.0	10/08/96	SIF32
Beryllium, Be	NT	mg/Kg	0.50			SIF32
Calcium, Ca	NT	mg/Kg	15			SIF32
Cadmium, Cd	ND	mg/Kg	0.20	1.0	10/03/96	SIF32
Cobalt, Co	NT	mg/Kg	0.50			SIF32
Chromium, Cr	8.0	mg/Kg	1.0	1.0	10/04/96	SIF32
Copper, Cu	NT	mg/Kg	0.50			SIF32
Iron, Fe	NT	mg/Kg	15			SIF32
Potassium, K	NT	mg/Kg	10			SIF32
Magnesium, Mg	NT	mg/Kg	10			SIF32
Manganese, Mn	NT	mg/Kg	0.25			SIF32
Sodium, Na	NT	mg/Kg	15			SIF32
Nickel, Ni	7.4	mg/Kg	2.0	1.0	10/04/96	SIF32
Lead, Pb	5.2	mg/Kg	2.0	1.0	10/03/96	SIF32
Antimony, Sb	NT	mg/Kg	1.5			SIF32
Selenium, Se	ND	mg/Kg	2.5	1.0	10/03/96	SIF32
dium, V	NT	mg/Kg	0.15			SIF32
Zn	NT	mg/Kg	5.0			SIF32
(ICP) DIG/1311/3005	09/23/96	N/A				
TCLP EXTRACTION/TCLP 1311	09/19/96	N/A				
TCLP METALS/1311/SW8466010						
Arsenic, As	ND	mg/L	0.40	1.0	09/25/96	TIF17,TWCV35
Barium, Ba	1.3	mg/L	0.50	1.0	09/25/96	TIF17,TWCV35
Cadmium, Cd	ND	mg/L	0.0050	1.0	09/25/96	TIF17,TWCV35
Chromium, Cr	ND	mg/L	0.020	1.0	09/25/96	TIF17,TWCV35
Lead, Pb	ND	mg/L	0.050	1.0	09/27/96	TIF17,TWCV35
Mercury, Hg	ND	mg/L	0.0020	1.0	09/27/96	TIF17,TWCV35
Selenium, Se	ND	mg/L	0.050	1.0	09/27/96	TIF17,TWCV35
Silver, Ag	ND	mg/L	0.040	1.0	09/25/96	TIF17,TWCV35
TCLP(CVAA)Hg XT/SW846 7471	09/27/96	N/A				

Lab ID: 9609160-03B **Collected:** 09/16/96 11:50:00
Sample ID: CA61/9-96-0916-1150 **Matrix:** SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
SAMPLE HOLD	N/A	N/A				

Lab ID: 9609160-04A **Collected:** 09/16/96 13:24:00
Sample ID: CA63/8-96-0916-1324 **Matrix:** SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
% IDS(TCLP XT)EPA 160.3	100.00	% (Percent)				
CVAA Hg XT/SW846 7471	09/19/96	N/A				

ID: 9609160-04A
Sample ID: CA63/8-96-0916-1324

Collected: 09/16/96 13:24:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
MERCURY (CVAA)/SW846 7471						
Mercury	ND	mg/Kg	0.15	1.0	09/20/96	SCV118
Metal(ICP) DIG /SW846 3050	09/26/96	N/A				
METALS-ICP/SW846 6010						
Silver, Ag	ND	mg/Kg	1.0	1.0	10/03/96	SIF32
Aluminum, Al	NT	mg/Kg	25			SIF32
Arsenic, As	ND	mg/Kg	3.0	1.0	10/03/96	SIF32
Barium, Ba	110	mg/Kg	0.50	1.0	10/08/96	SIF32
Beryllium, Be	NT	mg/Kg	0.50			SIF32
Calcium, Ca	NT	mg/Kg	15			SIF32
Cadmium, Cd	ND	mg/Kg	0.20	1.0	10/03/96	SIF32
Cobalt, Co	NT	mg/Kg	0.50			SIF32
Chromium, Cr	7.8	mg/Kg	1.0	1.0	10/04/96	SIF32
Copper, Cu	NT	mg/Kg	0.50			SIF32
Iron, Fe	NT	mg/Kg	15			SIF32
Potassium, K	NT	mg/Kg	10			SIF32
Magnesium, Mg	NT	mg/Kg	10			SIF32
Manganese, Mn	NT	mg/Kg	0.25			SIF32
Sodium, Na	NT	mg/Kg	15			SIF32
Nickel, Ni	6.8	mg/Kg	2.0	1.0	10/04/96	SIF32
Lead, Pb	5.9	mg/Kg	2.0	1.0	10/03/96	SIF32
Antimony, Sb	NT	mg/Kg	1.5			SIF32
Selenium, Se	ND	mg/Kg	2.5	1.0	10/03/96	SIF32
Vanadium, V	NT	mg/Kg	0.15			SIF32
Zinc, Zn	NT	mg/Kg	5.0			SIF32
(ICP) DIG/1311/3005	09/27/96	N/A				
EXTRACTION/TCLP 1311	09/19/96	N/A				
METALS/1311/SW8466010						
Arsenic, As	ND	mg/L	0.40	1.0	09/25/96	TIF17,TWCV35
Barium, Ba	1.2	mg/L	0.50	1.0	09/25/96	TIF17,TWCV35
Cadmium, Cd	ND	mg/L	0.0050	1.0	09/25/96	TIF17,TWCV35
Chromium, Cr	ND	mg/L	0.020	1.0	09/25/96	TIF17,TWCV35
Lead, Pb	ND	mg/L	0.050	1.0	09/27/96	TIF17,TWCV35
Mercury, Hg	ND	mg/L	0.0020	1.0	09/27/96	TIF17,TWCV35
Selenium, Se	ND	mg/L	0.050	1.0	09/27/96	TIF17,TWCV35
Silver, Ag	ND	mg/L	0.040	1.0	09/25/96	TIF17,TWCV35
TCLP(CVAA)Hg XT/SW846 7471	09/27/96	N/A				

Lab ID: 9609160-04B
Sample ID: CA63/8-96-0916-1324

Collected: 09/16/96 13:24:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
SAMPLE HOLD	N/A	N/A				

Lab ID: 9609160-05A
Sample ID: CA38/1-96-0916-1330

Collected: 09/16/96 13:30:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
LIDS(TCLP XT)EPA 160.3	100.00	% (Percent)				
Hg XT/SW846 7471	09/19/96	N/A				
MERCURY (CVAA)/SW846 7471						
Mercury	ND	mg/Kg	0.15	1.0	09/20/96	SCV118

Lab ID: 9609160-05A
Sample ID: CA38/1-96-0916-1330

Collected: 09/16/96 13:30:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
Metal(ICP) DIG /SW846 3050	09/26/96	N/A				
METALS-ICP/SW846 6010						
Silver, Ag	ND	mg/Kg	1.0	1.0	10/03/96	SIF32
Aluminum, Al	NT	mg/Kg	25			SIF32
Arsenic, As	ND	mg/Kg	3.0	1.0	10/03/96	SIF32
Barium, Ba	200	mg/Kg	0.50	1.0	10/08/96	SIF32
Beryllium, Be	NT	mg/Kg	0.50			SIF32
Calcium, Ca	NT	mg/Kg	15			SIF32
Cadmium, Cd	ND	mg/Kg	0.20	1.0	10/03/96	SIF32
Cobalt, Co	NT	mg/Kg	0.50			SIF32
Chromium, Cr	7.8	mg/Kg	1.0	1.0	10/04/96	SIF32
Copper, Cu	NT	mg/Kg	0.50			SIF32
Iron, Fe	NT	mg/Kg	15			SIF32
Potassium, K	NT	mg/Kg	10			SIF32
Magnesium, Mg	NT	mg/Kg	10			SIF32
Manganese, Mn	NT	mg/Kg	0.25			SIF32
Sodium, Na	NT	mg/Kg	15			SIF32
Nickel, Ni	7.4	mg/Kg	2.0	1.0	10/04/96	SIF32
Lead, Pb	9.3	mg/Kg	2.0	1.0	10/03/96	SIF32
Antimony, Sb	NT	mg/Kg	1.5			SIF32
Selenium, Se	ND	mg/Kg	2.5	1.0	10/03/96	SIF32
Vanadium, V	NT	mg/Kg	0.15			SIF32
Zinc, Zn	NT	mg/Kg	5.0			SIF32
TCLP (ICP) DIG/1311/3005	09/23/96	N/A				
TCLP EXTRACTION/TCLP 1311	09/19/96	N/A				
METALS/1311/SW8466010						
nic, As	ND	mg/L	0.40	1.0	09/25/96	TIF17,TWCV35
rium, Ba	1.5	mg/L	0.50	1.0	09/25/96	TIF17,TWCV35
Cadmium, Cd	ND	mg/L	0.0050	1.0	09/25/96	TIF17,TWCV35
Chromium, Cr	ND	mg/L	0.020	1.0	09/25/96	TIF17,TWCV35
Lead, Pb	ND	mg/L	0.050	1.0	09/27/96	TIF17,TWCV35
Mercury, Hg	ND	mg/L	0.0020	1.0	09/27/96	TIF17,TWCV35
Selenium, Se	ND	mg/L	0.050	1.0	09/27/96	TIF17,TWCV35
Silver, Ag	ND	mg/L	0.040	1.0	09/25/96	TIF17,TWCV35
TCLP(CVAA)Hg XT/SW846 7471	09/27/96	N/A				

Lab ID: 9609160-05B
Sample ID: CA38/1-96-0916-1330

Collected: 09/16/96 13:30:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
SAMPLE HOLD	N/A	N/A				

Fred L. Shore, Ph.D.
VP of Laboratory Operations

WORKORDER COMMENTS

DATE : **10/08/96**
WORKORDER:

DEFINITIONS/DATA QUALIFIERS

The following are definitions, abbreviations, and data qualifiers which may have been utilized in your report:

ND = Analyte "not detected" in analysis at the sample specific detection limit.
D_F = Sample "dilution factor"
NT = Analyte "not tested" per client request.
B = Analyte was also detected in laboratory method QC blank.
E = Analyte concentration (result) is an estimated value or exceeds analysis calibration range.
LIMIT = The minimum amount of the analyte that AAL can detect utilizing the specified analysis.

Please Note: Multiply the "Limit" value (AAL's Detection Limit) by Dilution Factor (D_F) to obtain the sample specific Detection Limit.

*** Analytical results reported pertain only to the samples provided ***
*** for analysis and may not represent actual field conditions. ***
*** ***
*** This report is not to be reproduced except in full, without the ***
*** written approval of Assaigai Analytical Inc. ***

REPORT COMMENTS

SAIGAI ANALYTICAL LABORATORIES

Chain of Custody Record

Lab job no.: 9160 Date

Page ____ of ____

7300 JEFFERSON, N.E.
ALBUQUERQUE, NEW MEXICO 8
(505) 345-8964

3332 WEDGEWOOD
EL PASO, TEXAS 79925
(915) 593-6000

1910 N. BIG SPRING
MIDLAND, TEXAS 79705
(915) 570-1116

MELQUIADES ALANIS
6411 LOCAL UNO
CIUDAD JUAREZ, CHIHUAHUA MEXICO 32320

Client: Cheyenne / LCI-2

Address: 1112 S Prince St

City / State / Zip: CLOVIS NM 88101

Project Name / Number: DACH47-95-D-0035

Contract / Purchase Order / Quote: DAN MOORE

Project Manager / Contact: Mike Landgraf

Telephone No.: 505-763-1910

Fax No.: 505-769-0780

Samplers: (Signature)

Analysis Required

AAL FRACTION NUMBER	Field Sample Number / Location	Date	Time	Sample Type	Type / Size of Container	Preservation Temp.	Preservation Chemical	No. of Containers	TRH method 8015	VOC's method 8260	SVOC's method 8270	TAL Metals method 6010/7470/7471	Extractable Petroleum Hydrocarbons method 1371					
01A,B	CA70/17-96-0916-1155	09/16/96	11:55	soil	1:4oz, 3:9oz glass		ICE	4	X	X	X	X						
02A,B	CA62/9-96-0916-1140	"	1140	soil	"		"	4	X	X	X	X						
03A,B	CA61/9-96-0916-1150	"	1150	soil	"		"	4	X	X	X	X						excavated material confirmatory samples
04A,B	CA63/8-96-0916-1329	"	13:29	soil	"		"	4	X	X	X	X						
05A,B	CA38/1-96-0916-1330	"	13:30	soil	"		"	4	X	X	X	X						

Relinquished by:	Date	Received by:	Relinquished by:	Date	Received by:
Signature:	9/16/96	Signature:	Signature:	9/17/96	Signature:
Printed: TROY MORALES	Time: 15:53	Printed: SN Gonzalez	Printed: GREYHOUND	Time: 9:50	Printed: Banice Tillman
Company: Cheyenne / LCI-2		Company: TNMTC	Company:		Company: IAC
Reason: Shipment		Reason: Shipment	Reason:		Reason:

Method of Shipment:

Shipment No.

Special Instructions:

Comments: Rcvd @ 5.2°C

After analysis, samples are to be:

- ☐ Disposed of (additional fee)
- ☐ Stored (30 days max)
- ☐ Stored over 30 days (additional fee)
- ☐ Returned to customer

COURIER

ASSAIGAI
ANALYTICAL
LABORATORIES, INC.
7300 Jefferson, N.E. • Albuquerque, New Mexico 87109 • (505) 345-8964 • FAX (505) 345-7259
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Report Generated:
October 21, 1996 16:24

CERTIFICATE OF ANALYSIS
RESULTS BY SAMPLE

SENT TO: CHEYENNE BUILDING CONTRACTORS
P.O. BOX 418
CLOVIS, NM 88101

ATTN: MIKE LANDGRAF

WORKORDER # : 9609230
WORK ID : DACA47-95-D-0035
CLIENT CODE : CHE10
DATE RECEIVED : 09/24/96

Lab ID: 9609230-01A
Sample ID: CA46/7-96-0923-0826
Collected: 09/23/96 08:26:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
Diesel Range OG Soil/M8015						
Diesel Range OG in Soil	ND	mg/Kg	50	1.0	10/01/96	SLFTD081
HCs DSL XT/CAL DHS 8015M	09/26/96	N/A				
HCs GAS/HDSPCE/CALDHS8015M						
HCs (Gasoline by Headspace)	ND	mg/Kg	0.10	1.0	10/04/96	SLFTG061

Lab ID: 9609230-01B
Sample ID: CA46/7-96-0923-0826
Collected: 09/23/96 08:26:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
VOLATILES/SW846 8260						
Dichlorodifluoromethane	ND	mg/Kg	0.010	5.0	09/24/96	SMSVOA395
Chloromethane	ND	mg/Kg	0.0050	5.0	09/24/96	SMSVOA395
Iodomethane	ND	mg/Kg	0.0050	5.0	09/24/96	SMSVOA395
Acetone	ND	mg/Kg	0.0050	5.0	09/24/96	SMSVOA395
Bromomethane	ND	mg/Kg	0.0050	5.0	09/24/96	SMSVOA395
Vinyl Chloride	ND	mg/Kg	0.0050	5.0	09/24/96	SMSVOA395
Chloroethane	ND	mg/Kg	0.0050	5.0	09/24/96	SMSVOA395
Trichlorofluoromethane	ND	mg/Kg	0.0050	5.0	09/24/96	SMSVOA395
Freon 113	ND	mg/Kg	0.0050	5.0	09/24/96	SMSVOA395
Carbon Disulfide	ND	mg/Kg	0.0050	5.0	09/24/96	SMSVOA395
Acrolein	ND	mg/Kg	0.020	5.0	09/24/96	SMSVOA395
Methylene Chloride	ND	mg/Kg	0.010	5.0	09/24/96	SMSVOA395
1,1-Dichloroethene	ND	mg/Kg	0.0010	5.0	09/24/96	SMSVOA395
1,1-Dichloroethane	ND	mg/Kg	0.0010	5.0	09/24/96	SMSVOA395
Acrylonitrile	ND	mg/Kg	0.020	5.0	09/24/96	SMSVOA395
trans-1,2-Dichloroethene	ND	mg/Kg	0.0010	5.0	09/24/96	SMSVOA395
Chloroform	ND	mg/Kg	0.0010	5.0	09/24/96	SMSVOA395
1,2-Dichloroethane	ND	mg/Kg	0.0010	5.0	09/24/96	SMSVOA395
Vinyl Acetate	ND	mg/Kg	0.0050	5.0	09/24/96	SMSVOA395
cis-1,2-Dichloroethene	ND	mg/Kg	0.0010	5.0	09/24/96	SMSVOA395
2-Butanone (MEK)	ND	mg/Kg	0.0050	5.0	09/24/96	SMSVOA395
1,1,1-Trichloroethane	ND	mg/Kg	0.0010	5.0	09/24/96	SMSVOA395
Carbon Tetrachloride	ND	mg/Kg	0.0010	5.0	09/24/96	SMSVOA395
[illegible]modichloromethane	ND	mg/Kg	0.0010	5.0	09/24/96	SMSVOA395
[illegible]chloropropane	ND	mg/Kg	0.0010	5.0	09/24/96	SMSVOA395
[illegible]nomethane	ND	mg/Kg	0.0010	5.0	09/24/96	SMSVOA395
[illegible]-1,3-Dichloropropene	ND	mg/Kg	0.0010	5.0	09/24/96	SMSVOA395
Trichloroethene	ND	mg/Kg	0.0010	5.0	09/24/96	SMSVOA395

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PRODUCT ENDORSEMENT BY THE NATIONAL VOLUNTARY LABORATORY ACCREDITATION PROGRAM.

ID: 9609230-01B
Sample ID: CA46/7-96-0923-0826

Collected: 09/23/96 08:26:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
VOLATILES/SW846 8260						
Chlorodibromomethane	ND	mg/Kg	0.0010	5.0	09/24/96	SMSVOA395
Ethyl Methacrylate	ND	mg/Kg	0.0050	5.0	09/24/96	SMSVOA395
2-Chloroethylvinyl Ether	NT	mg/Kg	0.0050			SMSVOA395
1,1,2-Trichloroethane	ND	mg/Kg	0.0010	5.0	09/24/96	SMSVOA395
Benzene	ND	mg/Kg	0.0010	5.0	09/24/96	SMSVOA395
cis-1,3-Dichloropropene	ND	mg/Kg	0.0010	5.0	09/24/96	SMSVOA395
Bromoform	ND	mg/Kg	0.0010	5.0	09/24/96	SMSVOA395
4-Methyl-2-Pentanone (MIBK)	ND	mg/Kg	0.0050	5.0	09/24/96	SMSVOA395
Tetrachloroethene	ND	mg/Kg	0.0010	5.0	09/24/96	SMSVOA395
1,1,2,2-Tetrachloroethane	ND	mg/Kg	0.0010	5.0	09/24/96	SMSVOA395
1,2-Dibromoethane	ND	mg/Kg	0.0010	5.0	09/24/96	SMSVOA395
2-Hexanone (MBK)	ND	mg/Kg	0.0050	5.0	09/24/96	SMSVOA395
1,1,1,2-Tetrachloroethane	ND	mg/Kg	0.0010	5.0	09/24/96	SMSVOA395
Toluene	ND	mg/Kg	0.0010	5.0	09/24/96	SMSVOA395
Chlorobenzene	ND	mg/Kg	0.0010	5.0	09/24/96	SMSVOA395
Ethylbenzene	ND	mg/Kg	0.0010	5.0	09/24/96	SMSVOA395
1,4-Dichloro-2-Butene	ND	mg/Kg	0.010	5.0	09/24/96	SMSVOA395
Styrene	ND	mg/Kg	0.0010	5.0	09/24/96	SMSVOA395
P/M Xylene	ND	mg/Kg	0.0020	5.0	09/24/96	SMSVOA395
O-Xylene	ND	mg/Kg	0.0010	5.0	09/24/96	SMSVOA395
1,2,3-Trichloropropane	ND	mg/Kg	0.0010	5.0	09/24/96	SMSVOA395
Methyl-tert Butyl Ether	ND	mg/Kg	0.010	5.0	09/24/96	SMSVOA395
1,2-Dichlorobenzene	ND	mg/Kg	0.0010	5.0	09/24/96	SMSVOA395
1,3-Dichlorobenzene	ND	mg/Kg	0.0010	5.0	09/24/96	SMSVOA395
ichlorobenzene	ND	mg/Kg	0.0010	5.0	09/24/96	SMSVOA395

Lab ID: 9609230-01C
Sample ID: CA46/7-96-0923-0826

Collected: 09/23/96 08:26:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
SVOA(SOX) Soil/SW846 8270B	10/07/96	N/A				
n-Nitrosodimethylamine	ND	mg/Kg	1.0	1.8	10/17/96	SMSSVOA124
Pyridine	ND	mg/Kg	10	1.8	10/17/96	SMSSVOA124
Aniline	ND	mg/Kg	10	1.8	10/17/96	SMSSVOA124
bis(2-Chloroethyl) Ether	ND	mg/Kg	0.50	1.8	10/17/96	SMSSVOA124
2-Chlorophenol	ND	mg/Kg	0.50	1.8	10/17/96	SMSSVOA124
1,3-Dichlorobenzene	ND	mg/Kg	0.50	1.8	10/17/96	SMSSVOA124
1,4-Dichlorobenzene	ND	mg/Kg	0.50	1.8	10/17/96	SMSSVOA124
Phenol	ND	mg/Kg	0.50	1.8	10/17/96	SMSSVOA124
1,2-Dichlorobenzene	ND	mg/Kg	0.50	1.8	10/17/96	SMSSVOA124
Benzyl Alcohol	ND	mg/Kg	10	1.8	10/17/96	SMSSVOA124
bis(2-Chloroisopropyl) Ether	ND	mg/Kg	1.0	1.8	10/17/96	SMSSVOA124
2-Methylphenol / O-Cresol	ND	mg/Kg	0.50	1.8	10/17/96	SMSSVOA124
Hexachloroethane	ND	mg/Kg	0.50	1.8	10/17/96	SMSSVOA124
n-Nitroso-di-n-propylamine	ND	mg/Kg	0.50	1.8	10/17/96	SMSSVOA124
Nitrobenzene	ND	mg/Kg	0.50	1.8	10/17/96	SMSSVOA124
3/4 Methylphenol / M/P-Cresol	ND	mg/Kg	0.50	1.8	10/17/96	SMSSVOA124
Isophorone	ND	mg/Kg	0.50	1.8	10/17/96	SMSSVOA124
2-Nitrophenol	ND	mg/Kg	1.0	1.8	10/17/96	SMSSVOA124
bis(2-Chloroethoxy) Methane	ND	mg/Kg	0.50	1.8	10/17/96	SMSSVOA124
2,4-Dimethylphenol	ND	mg/Kg	1.0	1.8	10/17/96	SMSSVOA124
1,2,4-Trichlorobenzene	ND	mg/Kg	0.50	1.8	10/17/96	SMSSVOA124
hthalene	ND	mg/Kg	0.50	1.8	10/17/96	SMSSVOA124
ic Acid	ND	mg/Kg	10	1.8	10/17/96	SMSSVOA124
ichlorophenol	ND	mg/Kg	1.0	1.8	10/17/96	SMSSVOA124
4-Chloroaniline	ND	mg/Kg	10	1.8	10/17/96	SMSSVOA124
Hexachlorobutadiene	ND	mg/Kg	0.50	1.8	10/17/96	SMSSVOA124

ID: 9609230-01C
Sample ID: CA46/7-96-0923-0826

Collected: 09/23/96 08:26:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
SVOA(SOX) Soil/SW846 8270B						
2-Methylnaphthalene	ND	mg/Kg	0.50	1.8	10/17/96	SMSSVOA124
4-Chloro-3-methylphenol	ND	mg/Kg	0.50	1.8	10/17/96	SMSSVOA124
Hexachlorocyclopentadiene	ND	mg/Kg	10	1.8	10/17/96	SMSSVOA124
2,4,6-Trichlorophenol	ND	mg/Kg	1.0	1.8	10/17/96	SMSSVOA124
2,4,5-Trichlorophenol	ND	mg/Kg	1.0	1.8	10/17/96	SMSSVOA124
2-Chloronaphthalene	ND	mg/Kg	0.50	1.8	10/17/96	SMSSVOA124
2-Nitroaniline	ND	mg/Kg	1.0	1.8	10/17/96	SMSSVOA124
Acenaphthylene	ND	mg/Kg	0.50	1.8	10/17/96	SMSSVOA124
Dimethylphthalate	ND	mg/Kg	0.50	1.8	10/17/96	SMSSVOA124
2,6-Dinitrotoluene	ND	mg/Kg	1.0	1.8	10/17/96	SMSSVOA124
Acenaphthene	ND	mg/Kg	0.50	1.8	10/17/96	SMSSVOA124
3-Nitroaniline	ND	mg/Kg	10	1.8	10/17/96	SMSSVOA124
Dibenzofuran	ND	mg/Kg	0.50	1.8	10/17/96	SMSSVOA124
2,4-Dinitrotoluene	ND	mg/Kg	2.5	1.8	10/17/96	SMSSVOA124
Fluorene	ND	mg/Kg	0.50	1.8	10/17/96	SMSSVOA124
4-Chlorophenyl-phenylether	ND	mg/Kg	0.50	1.8	10/17/96	SMSSVOA124
Diethylphthalate	ND	mg/Kg	0.50	1.8	10/17/96	SMSSVOA124
4-Nitrophenol	ND	mg/Kg	10	1.8	10/17/96	SMSSVOA124
4,6-Dinitro-2-methylphenol	ND	mg/Kg	10	1.8	10/17/96	SMSSVOA124
n-Nitrosodiphenylamine	ND	mg/Kg	0.50	1.8	10/17/96	SMSSVOA124
4-Nitroaniline	ND	mg/Kg	10	1.8	10/17/96	SMSSVOA124
4-Bromophenyl-phenylether	ND	mg/Kg	0.50	1.8	10/17/96	SMSSVOA124
Hexachlorobenzene	ND	mg/Kg	0.50	1.8	10/17/96	SMSSVOA124
Pentachlorophenol	ND	mg/Kg	10	1.8	10/17/96	SMSSVOA124
Phenanthrene	ND	mg/Kg	10	1.8	10/17/96	SMSSVOA124
Anthracene	ND	mg/Kg	0.50	1.8	10/17/96	SMSSVOA124
Di-n-butylphthalate	ND	mg/Kg	0.50	1.8	10/17/96	SMSSVOA124
Fluoranthene	ND	mg/Kg	5.0	1.8	10/17/96	SMSSVOA124
Pyrene	ND	mg/Kg	0.50	1.8	10/17/96	SMSSVOA124
Butylbenzylphthalate	ND	mg/Kg	0.50	1.8	10/17/96	SMSSVOA124
Benzo(a)anthracene	ND	mg/Kg	0.50	1.8	10/17/96	SMSSVOA124
Chrysene	ND	mg/Kg	0.50	1.8	10/17/96	SMSSVOA124
3,3'-Dichlorobenzidine	ND	mg/Kg	10	1.8	10/17/96	SMSSVOA124
bis(2-Ethylhexyl)phthalate	ND	mg/Kg	2.5	1.8	10/17/96	SMSSVOA124
Di-n-octyl phthalate	ND	mg/Kg	0.50	1.8	10/17/96	SMSSVOA124
Benzo(b)+(k)fluoranthene	ND	mg/Kg	0.50	1.8	10/17/96	SMSSVOA124
1-Methylnaphthalene	ND	mg/Kg	1.0	1.8	10/17/96	SMSSVOA124
Benzo(a)pyrene	ND	mg/Kg	0.50	1.8	10/17/96	SMSSVOA124
Indeno(1,2,3-cd)pyrene	ND	mg/Kg	1.0	1.8	10/17/96	SMSSVOA124
Benzo(g,h,i)perylene	ND	mg/Kg	1.0	1.8	10/17/96	SMSSVOA124
2,3,4,6-Tetrachlorophenol	ND	mg/Kg	2.5	1.8	10/17/96	SMSSVOA124
Azobenzene	ND	mg/Kg	1.0	1.8	10/17/96	SMSSVOA124
Dibenz(a,h)anthracene	ND	mg/Kg	1.0	1.8	10/17/96	SMSSVOA124

Lab ID: 9609230-01D
Sample ID: CA46/7-96-0923-0826

Collected: 09/23/96 08:26:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
% SOLIDS(TCLP XT)EPA 160.3	100.00	% (Percent)				
BARIUM (FAA)/SW846 7080						
Barium, Ba	163	mg/Kg	25	1.0	10/08/96	SIF32
Hg XT/SW846 7471	10/09/96	N/A				
MERCURY (CVAA)/SW846 7471						
Mercury	ND	mg/Kg	0.15	1.0	10/10/96	M9623
Metal(ICP) DIG /SW846 3050	09/26/96	N/A				
METALS-ICP/SW846 6010						

ID: 9609230-01D **Collected:** 09/23/96 08:26:00
Sample ID: CA46/7-96-0923-0826 **Matrix:** SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
METALS-ICP/SW846 6010						
Silver, Ag	ND	mg/Kg	1.0	1.0	10/03/96	SIF32
Aluminum, Al	NT	mg/Kg	25			SIF32
Arsenic, As	ND	mg/Kg	3.0	1.0	10/03/96	SIF32
Barium, Ba	NT	mg/Kg	0.50			SIF32
Beryllium, Be	NT	mg/Kg	0.50			SIF32
Calcium, Ca	NT	mg/Kg	15			SIF32
Cadmium, Cd	ND	mg/Kg	0.20	1.0	10/03/96	SIF32
Cobalt, Co	NT	mg/Kg	0.50			SIF32
Chromium, Cr	7.2	mg/Kg	1.0	1.0	10/04/96	SIF32
Copper, Cu	NT	mg/Kg	0.50			SIF32
Iron, Fe	NT	mg/Kg	15			SIF32
Potassium, K	NT	mg/Kg	10			SIF32
Magnesium, Mg	NT	mg/Kg	10			SIF32
Manganese, Mn	NT	mg/Kg	0.25			SIF32
Sodium, Na	NT	mg/Kg	15			SIF32
Nickel, Ni	7.1	mg/Kg	2.0	1.0	10/04/96	SIF32
Lead, Pb	13.8	mg/Kg	2.0	1.0	10/03/96	SIF32
Antimony, Sb	NT	mg/Kg	1.5			SIF32
Selenium, Se	ND	mg/Kg	2.5	1.0	10/04/96	SIF32
Vanadium, V	NT	mg/Kg	0.15			SIF32
Zinc, Zn	NT	mg/Kg	5.0			SIF32
TCLP (ICP) DIG/1311/3005	10/01/96	N/A				
TCLP EXTRACTION/TCLP 1311	10/01/96	N/A				
TCLP METALS/1311/SW8466010						
ic, As	ND	mg/L	0.40	1.0	10/02/96	TIF20,M967
, Ba	1.5	mg/L	0.50	1.0	10/02/96	TIF20,M967
ium, Cd	ND	mg/L	0.0050	1.0	10/02/96	TIF20,M967
Chromium, Cr	ND	mg/L	0.020	1.0	10/02/96	TIF20,M967
Lead, Pb	ND	mg/L	0.050	1.0	10/02/96	TIF20,M967
Mercury, Hg	ND	mg/L	0.0020	1.0	10/04/96	TIF20,M967
Selenium, Se	ND	mg/L	0.050	1.0	10/02/96	TIF20,M967
Silver, Ag	ND	mg/L	0.040	1.0	10/02/96	TIF20,M967
TCLP(CVAA)Hg XT/SW846 7471	10/04/96	N/A				

Lab ID: 9609230-02A **Collected:** 09/23/96 11:08:00
Sample ID: CA46/8-96-0923-1108 **Matrix:** SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
% SOLIDS(TCLP XT)EPA 160.3	100.00	% (Percent)				
BARIUM (FAA)/SW846 7080						
Barium, Ba	172	mg/Kg	25	1.0	10/08/96	SIF32
CVAA Hg XT/SW846 7471	10/09/96	N/A				
MERCURY (CVAA)/SW846 7471						
Mercury	ND	mg/Kg	0.15	1.0	10/09/96	M9623
Metal(ICP) DIG /SW846 3050	09/26/96	N/A				
METALS-ICP/SW846 6010						
Silver, Ag	ND	mg/Kg	1.0	1.0	10/03/96	SIF32
Aluminum, Al	NT	mg/Kg	25			SIF32
Arsenic, As	ND	mg/Kg	3.0	1.0	10/03/96	SIF32
Barium, Ba	NT	mg/Kg	0.50			SIF32
Beryllium, Be	NT	mg/Kg	0.50			SIF32
Calcium, Ca	NT	mg/Kg	15			SIF32
ium, Cd	ND	mg/Kg	0.20	1.0	10/03/96	SIF32
, Co	NT	mg/Kg	0.50			SIF32
ium, Cr	3.2	mg/Kg	1.0	1.0	10/04/96	SIF32
Copper, Cu	NT	mg/Kg	0.50			SIF32
Iron, Fe	NT	mg/Kg	15			SIF32

ID: 9609230-02A
Sample ID: CA46/8-96-0923-1108

Collected: 09/23/96 11:08:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
METALS-ICP/SW846 6010						
Potassium, K	NT	mg/Kg	10			SIF32
Magnesium, Mg	NT	mg/Kg	10			SIF32
Manganese, Mn	NT	mg/Kg	0.25			SIF32
Sodium, Na	NT	mg/Kg	15			SIF32
Nickel, Ni	6.6	mg/Kg	2.0	1.0	10/04/96	SIF32
Lead, Pb	3.5	mg/Kg	2.0	1.0	10/03/96	SIF32
Antimony, Sb	NT	mg/Kg	1.5			SIF32
Selenium, Se	ND	mg/Kg	2.5	1.0	10/04/96	SIF32
Vanadium, V	NT	mg/Kg	0.15			SIF32
Zinc, Zn	NT	mg/Kg	5.0			SIF32
TCLP (ICP) DIG/1311/3005	10/01/96	N/A				
TCLP EXTRACTION/TCLP 1311	10/01/96	N/A				
TCLP METALS/1311/SW8466010						
Arsenic, As	ND	mg/L	0.40	1.0	10/02/96	TIF20,M967
Barium, Ba	1.4	mg/L	0.50	1.0	10/02/96	TIF20,M967
Cadmium, Cd	ND	mg/L	0.0050	1.0	10/02/96	TIF20,M967
Chromium, Cr	ND	mg/L	0.020	1.0	10/02/96	TIF20,M967
Lead, Pb	ND	mg/L	0.050	1.0	10/02/96	TIF20,M967
Mercury, Hg	ND	mg/L	0.0020	1.0	10/04/96	TIF20,M967
Selenium, Se	ND	mg/L	0.050	1.0	10/02/96	TIF20,M967
Silver, Ag	ND	mg/L	0.040	1.0	10/02/96	TIF20,M967
TCLP(CVAA)Hg XT/SW846 7471	10/04/96	N/A				

Fred L. Shore, Ph.D.
VP of Laboratory Operations

WORKORDER COMMENTS

DATE : 10/21/96
WORKORDER:

DEFINITIONS/DATA QUALIFIERS

The following are definitions, abbreviations, and data qualifiers which may have been utilized in your report:

ND = Analyte "not detected" in analysis at the sample specific detection limit.
D_F = Sample "dilution factor"
NT = Analyte "not tested" per client request.
B = Analyte was also detected in laboratory method QC blank.
E = Analyte concentration (result) is an estimated value or exceeds analysis calibration range.
LIMIT = The minimum amount of the analyte that AAL can detect utilizing the specified analysis.

Please Note: Multiply the "Limit" value (AAL's Detection Limit) by Dilution Factor (D_F) to obtain the sample specific Detection Limit.

*** Analytical results reported pertain only to the samples provided ***
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*** ***
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REPORT COMMENTS

SSAIGAI ANALYTICAL LABORATORIES

Chain of Custody Record

Lab job no.: 9230 Date: 9/24/96

Page 1 of 1

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(915) 593-6000

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MIDLAND, TEXAS 79705
(915) 570-1116

MELQUIADES ALANIS
6411 LOCAL UNO
CIUDAD JUAREZ, CHIHUAHUA MEXICO 32320

Client: Cheyenne LCI-2, INC.

Address: 712 S Prince st

City / State / Zip: CLOVIS NM 88101

Project Name / Number: DACA97-95-D-0035

Contract / Purchase Order / Quote: DAN MOORE

Project Manager / Contact: Mike Landraf

Telephone No.: 505 763-1910

Fax No.: 505 7690780

Samplers: (Signature)

Analysis Required

AAL FRACTION NUMBER	Field Sample Number / Location	Date	Time	Sample Type	Type / Size of Container	Preservation Temp.	Preservation Chemical	No. of Containers	TRPH Method 8015mod	VOC's meth. 8260	SVOC's meth. 8270	TAL RCRA metals Method 6010 & 7470	USIS meth. 1311 extraction					Remarks
1A-1D	CAA6/7-96-0923-0826	9-23-96	8:26	soil	1-4oz, 3-9oz glass	ice		4	X	X	X	X						Confirmatory sample
2-A	CAA6/8-96-0923-1108	9-23-96	11:08	soil	1-9oz glass	N		1				X						Granular material

Relinquished by:	Date	Received by:	Relinquished by:	Date	Received by:
Signature: [signature]	9-23-96	Signature: [signature]	Signature:	9/24/96	Signature: [signature]
Printed: Troy Morales	Time: 6:26 AM	Printed: S.N. Gonzales	Printed:	Time: 1016am	Printed:
Company: Cheyenne		Company: TNMO Const.	Company: TNMO		Company: AAL
Reason: Shipment		Reason: Shipment	Reason: Transport		Reason:

Method of Shipment:

Shipment No.

Special Instructions:

Comments:

After analysis, samples are to be:

- ☐ Disposed of (additional fee)
- ☐ Stored (30 days max)
- ☐ Stored over 30 days (additional fee)
- ☐ Returned to customer

COURIER

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Report Generated:
October 10, 1996 16:50

CERTIFICATE OF ANALYSIS
RESULTS BY SAMPLE

SENT TO: CHEYENNE BUILDING CONTRACTORS
P.O. BOX 418
CLOVIS, NM 88101

ATTN: MIKE LANDGRAF

WORKORDER # : 9609244
WORK ID : DACA47-95-D-0035
CLIENT CODE : CHE10
DATE RECEIVED : 09/26/96

Lab ID: 9609244-01A
Sample ID: CA46/4-96-0923-0823
Collected: 09/23/96 08:23:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
BTEX/SW846 8020A						
Benzene	ND	mg/Kg	0.0010	5.0	10/02/96	SBTXME131
Toluene	ND	mg/Kg	0.0010	5.0	10/02/96	SBTXME131
Ethylbenzene	ND	mg/Kg	0.0010	5.0	10/02/96	SBTXME131
P-&m-Xylene	ND	mg/Kg	0.0010	5.0	10/02/96	SBTXME131
O-Xylene	ND	mg/Kg	0.0010	5.0	10/02/96	SBTXME131
D: [illegible] Range OG Soil/M8015						
[illegible] Range OG in Soil	ND	mg/Kg	50	1.0	10/02/96	SLFTD081
[illegible]SL XT/CAL DHS 8015M	09/26/96	N/A				
[illegible] GAS/HDSPCE/CALDHS8015M						
HCs (Gasoline by Headspace)	ND	mg/Kg	0.10	1.0	10/04/96	SLFTG061

Lab ID: 9609244-02A
Sample ID: CA46/6-96-0923-0825
Collected: 09/23/96 08:25:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
BTEX/SW846 8020A						
Benzene	ND	mg/Kg	0.0010	5.0	10/02/96	SBTXME131
Toluene	ND	mg/Kg	0.0010	5.0	10/02/96	SBTXME131
Ethylbenzene	ND	mg/Kg	0.0010	5.0	10/02/96	SBTXME131
P-&m-Xylene	ND	mg/Kg	0.0010	5.0	10/02/96	SBTXME131
O-Xylene	ND	mg/Kg	0.0010	5.0	10/02/96	SBTXME131
Diesel Range OG Soil/M8015						
Diesel Range OG in Soil	ND	mg/Kg	50	1.0	10/01/96	SLFTD081
HCs DSL XT/CAL DHS 8015M	09/26/96	N/A				
HCs GAS/HDSPCE/CALDHS8015M						
HCs (Gasoline by Headspace)	ND	mg/Kg	0.10	1.0	10/04/96	SLFTG061

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Fred L. Shore, Ph.D.
VP of Laboratory Operations

WORKORDER COMMENTS

DATE : 10/10/96
WORKORDER:

DEFINITIONS/DATA QUALIFIERS

The following are definitions, abbreviations, and data qualifiers which may have been utilized in your report:

ND = Analyte "not detected" in analysis at the sample specific detection limit.
D_F = Sample "dilution factor"
NT = Analyte "not tested" per client request.
B = Analyte was also detected in laboratory method QC blank.
E = Analyte concentration (result) is an estimated value or exceeds analysis calibration range.
LIMIT = The minimum amount of the analyte that AAL can detect utilizing the specified analysis.

Please Note: Multiply the "Limit" value (AAL's Detection Limit) by Dilution Factor (D_F) to obtain the sample specific Detection Limit.

*** Analytical results reported pertain only to the samples provided ***
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REPORT COMMENTS

SSAIGAI ANALYTICAL LABORATORIES

Chain of Custody Record

Lab job no.: 9244 D. 9/24/96

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MIDLAND, TEXAS 79705
(915) 570-1116

MELQUIADES ALANIS
6411 LOCAL UNO
CIUDAD JUAREZ, CHIHUAHUA MEXICO 32320

Client: Cheyenne / LCI-2, INC.

Address: 1712 S Prince St

City / State / Zip: CLOVIS NM 88101

Project Name / Number: DACH47-95-D-0035

Contract / Purchase Order / Quote: DAN MOORE

Project Manager / Contact: Mike Landrat

Telephone No.: 505-763-1410

Fax No.: 505-769-0780

Samplers: (Signature)

Analysis Required: TRPH (MO) 8015, BTEX 8020, Diesel Range

AAL Fraction Number	Field Sample Number / Location	Date	Time	Sample Type	Type / Size of Container	Preservation Temp.	Preservation Chemical	No. of Containers	TRPH (MO) 8015	BTEX 8020								Remarks
1A	CH46/A-96-0923-0823	9/23/96	8:23	soil	1 = 4oz glass	ice		1	X	X								Correlation (Highest)
2A	CH46/6-96-0923-0825	"	8:25	"	"	"		1	X	X								" 1 of 10

Relinquished by:	Date	Received by:	Relinquished by:	Date	Received by:
Signature: [signature]	9/25/96	Signature: [signature]	Signature:	9/24/96	Signature: [signature]
Printed: Troy Morales	Time: 4:00 PM	Printed: SM Gonzales	Printed:	Time: 1001am	Printed:
Company: Cheyenne		Company: TNM+O CL	Company: TNH4.0		Company: AAL
Reason: Shipment		Reason: Shipment	Reason: transport		Reason:

Method of Shipment: Bus Greyhound

Shipment No.:

Special Instructions:

Comments: 1.2°C

After analysis, samples are to be:

- ☐ Disposed of (additional fee)
- ☐ Stored (30 days max)
- ☐ Stored over 30 days (additional fee)
- ☐ Returned to customer

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REVISED
10/29/96

Report Generated:
October 29, 1996 14:16

CERTIFICATE OF ANALYSIS
RESULTS BY SAMPLE

SENT TO: CHEYENNE BUILDING CONTRACTORS
P.O. BOX 418
CLOVIS, NM 88101

ATTN: MIKE LANDGRAF

WORKORDER # : 9610005
WORK ID : DACA47-95-D-0035
CLIENT CODE : CHE10
DATE RECEIVED : 10/01/96

Lab ID: 9610005-01A
Sample ID: CA39/7-96-0930-1334
Collected: 09/30/96 13:34:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
Diesel Range OG Soil/M8015						
Diesel Range OG in Soil	ND	mg/Kg	50	1.0	10/10/96	SDRO002

Lab ID: 9610005-01B
Sample ID: CA39/7-96-0930-1334
Collected: 09/30/96 13:34:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
VOLATILES/SW846 8260						
Dichlorodifluoromethane	ND	mg/Kg	0.010	5.0	10/04/96	SMSVOA396
Chloromethane	ND	mg/Kg	0.0050	5.0	10/04/96	SMSVOA396
Iodomethane	ND	mg/Kg	0.0050	5.0	10/04/96	SMSVOA396
Acetone	ND	mg/Kg	0.0050	5.0	10/04/96	SMSVOA396
Bromomethane	ND	mg/Kg	0.0050	5.0	10/04/96	SMSVOA396
Vinyl Chloride	ND	mg/Kg	0.0050	5.0	10/04/96	SMSVOA396
Chloroethane	ND	mg/Kg	0.0050	5.0	10/04/96	SMSVOA396
Trichlorofluoromethane	ND	mg/Kg	0.0050	5.0	10/04/96	SMSVOA396
Freon 113	NT	mg/Kg	0.0050			SMSVOA396
Carbon Disulfide	ND	mg/Kg	0.0050	5.0	10/04/96	SMSVOA396
Acrolein	NT	mg/Kg	0.020			SMSVOA396
Methylene Chloride	ND	mg/Kg	0.010	5.0	10/04/96	SMSVOA396
1,1-Dichloroethene	ND	mg/Kg	0.0010	5.0	10/04/96	SMSVOA396
1,1-Dichloroethane	ND	mg/Kg	0.0010	5.0	10/04/96	SMSVOA396
Acrylonitrile	ND	mg/Kg	0.020	5.0	10/04/96	SMSVOA396
trans-1,2-Dichloroethene	ND	mg/Kg	0.0010	5.0	10/04/96	SMSVOA396
Chloroform	ND	mg/Kg	0.0010	5.0	10/04/96	SMSVOA396
1,2-Dichloroethane	ND	mg/Kg	0.0010	5.0	10/04/96	SMSVOA396
Vinyl Acetate	ND	mg/Kg	0.0050	5.0	10/04/96	SMSVOA396
cis-1,2-Dichloroethene	ND	mg/Kg	0.0010	5.0	10/04/96	SMSVOA396
2-Butanone (MEK)	ND	mg/Kg	0.0050	5.0	10/04/96	SMSVOA396
1,1,1-Trichloroethane	ND	mg/Kg	0.0010	5.0	10/04/96	SMSVOA396
Carbon Tetrachloride	ND	mg/Kg	0.0010	5.0	10/04/96	SMSVOA396
Bromodichloromethane	ND	mg/Kg	0.0010	5.0	10/04/96	SMSVOA396
1,2-Dichloropropane	ND	mg/Kg	0.0010	5.0	10/04/96	SMSVOA396
Dibromomethane	ND	mg/Kg	0.0010	5.0	10/04/96	SMSVOA396
ns-1,3-Dichloropropene	ND	mg/Kg	0.0010	5.0	10/04/96	SMSVOA396
roethene	ND	mg/Kg	0.0010	5.0	10/04/96	SMSVOA396
dibromomethane	ND	mg/Kg	0.0010	5.0	10/04/96	SMSVOA396
Methacrylate	ND	mg/Kg	0.0050	5.0	10/04/96	SMSVOA396
2-Chloroethylvinyl Ether	ND	mg/Kg	0.0050	5.0	10/04/96	SMSVOA396

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ID: 9610005-01B **Collected:** 09/30/96 13:34:00
Sample ID: CA39/7-96-0930-1334 **Matrix:** SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
VOLATILES/SW846 8260						
1,1,2-Trichloroethane	ND	mg/Kg	0.0010	5.0	10/04/96	SMSVOA396
Benzene	ND	mg/Kg	0.0010	5.0	10/04/96	SMSVOA396
cis-1,3-Dichloropropene	ND	mg/Kg	0.0010	5.0	10/04/96	SMSVOA396
Bromoform	ND	mg/Kg	0.0010	5.0	10/04/96	SMSVOA396
4-Methyl-2-Pentanone (MIBK)	ND	mg/Kg	0.0050	5.0	10/04/96	SMSVOA396
Tetrachloroethene	ND	mg/Kg	0.0010	5.0	10/04/96	SMSVOA396
1,1,2,2-Tetrachloroethane	ND	mg/Kg	0.0010	5.0	10/04/96	SMSVOA396
1,2-Dibromoethane	ND	mg/Kg	0.0010	5.0	10/04/96	SMSVOA396
2-Hexanone (MBK)	ND	mg/Kg	0.0050	5.0	10/04/96	SMSVOA396
1,1,1,2-Tetrachloroethane	ND	mg/Kg	0.0010	5.0	10/04/96	SMSVOA396
Toluene	ND	mg/Kg	0.0010	5.0	10/04/96	SMSVOA396
Chlorobenzene	ND	mg/Kg	0.0010	5.0	10/04/96	SMSVOA396
Ethylbenzene	ND	mg/Kg	0.0010	5.0	10/04/96	SMSVOA396
1,4-Dichloro-2-Butene	ND	mg/Kg	0.010	5.0	10/04/96	SMSVOA396
Styrene	ND	mg/Kg	0.0010	5.0	10/04/96	SMSVOA396
P/M Xylene	ND	mg/Kg	0.0020	5.0	10/04/96	SMSVOA396
O-Xylene	ND	mg/Kg	0.0010	5.0	10/04/96	SMSVOA396
1,2,3-Trichloropropane	ND	mg/Kg	0.0010	5.0	10/04/96	SMSVOA396
Methyl-tert Butyl Ether	ND	mg/Kg	0.010	5.0	10/04/96	SMSVOA396
1,2-Dichlorobenzene	ND	mg/Kg	0.0010	5.0	10/04/96	SMSVOA396
1,3-Dichlorobenzene	ND	mg/Kg	0.0010	5.0	10/04/96	SMSVOA396
1,4-Dichlorobenzene	ND	mg/Kg	0.0010	5.0	10/04/96	SMSVOA396

ID: 9610005-01C **Collected:** 09/30/96 13:34:00
Sample ID: CA39/7-96-0930-1334 **Matrix:** SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
SVOA(SOX) Soil/SW846 8270B	10/07/96	N/A				
n-Nitrosodimethylamine	ND	mg/Kg	1.0	1.9	10/17/96	SMSSVOA124
Pyridine	ND	mg/Kg	10	1.9	10/17/96	SMSSVOA124
Aniline	ND	mg/Kg	10	1.9	10/17/96	SMSSVOA124
bis(2-Chloroethyl) Ether	ND	mg/Kg	0.50	1.9	10/17/96	SMSSVOA124
2-Chlorophenol	ND	mg/Kg	0.50	1.9	10/17/96	SMSSVOA124
1,3-Dichlorobenzene	ND	mg/Kg	0.50	1.9	10/17/96	SMSSVOA124
1,4-Dichlorobenzene	ND	mg/Kg	0.50	1.9	10/17/96	SMSSVOA124
Phenol	ND	mg/Kg	0.50	1.9	10/17/96	SMSSVOA124
1,2-Dichlorobenzene	ND	mg/Kg	0.50	1.9	10/17/96	SMSSVOA124
Benzyl Alcohol	ND	mg/Kg	10	1.9	10/17/96	SMSSVOA124
bis(2-Chloroisopropyl) Ether	ND	mg/Kg	1.0	1.9	10/17/96	SMSSVOA124
2-Methylphenol / O-Cresol	ND	mg/Kg	0.50	1.9	10/17/96	SMSSVOA124
Hexachloroethane	ND	mg/Kg	0.50	1.9	10/17/96	SMSSVOA124
n-Nitroso-di-n-propylamine	ND	mg/Kg	0.50	1.9	10/17/96	SMSSVOA124
Nitrobenzene	ND	mg/Kg	0.50	1.9	10/17/96	SMSSVOA124
3/4 Methylphenol / M/P-Cresol	ND	mg/Kg	0.50	1.9	10/17/96	SMSSVOA124
Isophorone	ND	mg/Kg	0.50	1.9	10/17/96	SMSSVOA124
2-Nitrophenol	ND	mg/Kg	1.0	1.9	10/17/96	SMSSVOA124
bis(2-Chloroethoxy) Methane	ND	mg/Kg	0.50	1.9	10/17/96	SMSSVOA124
2,4-Dimethylphenol	ND	mg/Kg	1.0	1.9	10/17/96	SMSSVOA124
1,2,4-Trichlorobenzene	ND	mg/Kg	0.50	1.9	10/17/96	SMSSVOA124
Naphthalene	ND	mg/Kg	0.50	1.9	10/17/96	SMSSVOA124
Benzoic Acid	ND	mg/Kg	10	1.9	10/17/96	SMSSVOA124
2,4-Dichlorophenol	ND	mg/Kg	1.0	1.9	10/17/96	SMSSVOA124
[illegible]loroaniline	ND	mg/Kg	10	1.9	10/17/96	SMSSVOA124
[illegible]hlorobutadiene	ND	mg/Kg	0.50	1.9	10/17/96	SMSSVOA124
[illegible]hylnaphthalene	ND	mg/Kg	0.50	1.9	10/17/96	SMSSVOA124
4-Chloro-3-methylphenol	ND	mg/Kg	0.50	1.9	10/17/96	SMSSVOA124
Hexachlorocyclopentadiene	ND	mg/Kg	10	1.9	10/17/96	SMSSVOA124

ID: 9610005-01C
Sample ID: CA39/7-96-0930-1334

Collected: 09/30/96 13:34:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
SVOA(SOX) Soil/SW846 8270B						
2,4,6-Trichlorophenol	ND	mg/Kg	1.0	1.9	10/17/96	SMSSVOA124
2,4,5-Trichlorophenol	ND	mg/Kg	1.0	1.9	10/17/96	SMSSVOA124
2-Chloronaphthalene	ND	mg/Kg	0.50	1.9	10/17/96	SMSSVOA124
2-Nitroaniline	ND	mg/Kg	1.0	1.9	10/17/96	SMSSVOA124
Acenaphthylene	ND	mg/Kg	0.50	1.9	10/17/96	SMSSVOA124
Dimethylphthalate	ND	mg/Kg	0.50	1.9	10/17/96	SMSSVOA124
2,6-Dinitrotoluene	ND	mg/Kg	1.0	1.9	10/17/96	SMSSVOA124
Acenaphthene	ND	mg/Kg	0.50	1.9	10/17/96	SMSSVOA124
3-Nitroaniline	ND	mg/Kg	10	1.9	10/17/96	SMSSVOA124
Dibenzofuran	ND	mg/Kg	0.50	1.9	10/17/96	SMSSVOA124
2,4-Dinitrotoluene	ND	mg/Kg	2.5	1.9	10/17/96	SMSSVOA124
Fluorene	ND	mg/Kg	0.50	1.9	10/17/96	SMSSVOA124
4-Chlorophenyl-phenylether	ND	mg/Kg	0.50	1.9	10/17/96	SMSSVOA124
Diethylphthalate	ND	mg/Kg	0.50	1.9	10/17/96	SMSSVOA124
4-Nitrophenol	ND	mg/Kg	10	1.9	10/17/96	SMSSVOA124
4,6-Dinitro-2-methylphenol	ND	mg/Kg	10	1.9	10/17/96	SMSSVOA124
n-Nitrosodiphenylamine	ND	mg/Kg	0.50	1.9	10/17/96	SMSSVOA124
4-Nitroaniline	ND	mg/Kg	10	1.9	10/17/96	SMSSVOA124
4-Bromophenyl-phenylether	ND	mg/Kg	0.50	1.9	10/17/96	SMSSVOA124
Hexachlorobenzene	ND	mg/Kg	0.50	1.9	10/17/96	SMSSVOA124
Pentachlorophenol	ND	mg/Kg	10	1.9	10/17/96	SMSSVOA124
2,4-Dinitrophenol	ND	mg/Kg	10	1.9	10/17/96	SMSSVOA124
Phenanthrene	ND	mg/Kg	0.50	1.9	10/17/96	SMSSVOA124
Anthracene	ND	mg/Kg	0.50	1.9	10/17/96	SMSSVOA124
butylphthalate	27B	mg/Kg	5.0	1.9	10/17/96	SMSSVOA124
anthene	ND	mg/Kg	0.50	1.9	10/17/96	SMSSVOA124
ne	ND	mg/Kg	0.50	1.9	10/17/96	SMSSVOA124
Butylbenzylphthalate	ND	mg/Kg	0.50	1.9	10/17/96	SMSSVOA124
Benzo(a)anthracene	ND	mg/Kg	0.50	1.9	10/17/96	SMSSVOA124
Chrysene	ND	mg/Kg	0.50	1.9	10/17/96	SMSSVOA124
3,3'-Dichlorobenzidine	ND	mg/Kg	10	1.9	10/17/96	SMSSVOA124
bis(2-Ethylhexyl)phthalate	ND	mg/Kg	2.5	1.9	10/17/96	SMSSVOA124
Di-n-octyl phthalate	ND	mg/Kg	0.50	1.9	10/17/96	SMSSVOA124
Benzo(b)+(k)fluoranthene	ND	mg/Kg	0.50	1.9	10/17/96	SMSSVOA124
1-Methylnaphthalene	ND	mg/Kg	1.0	1.9	10/17/96	SMSSVOA124
Benzo(a)pyrene	ND	mg/Kg	0.50	1.9	10/17/96	SMSSVOA124
Indeno(1,2,3-cd)pyrene	ND	mg/Kg	1.0	1.9	10/17/96	SMSSVOA124
Benzo(g,h,i)perylene	ND	mg/Kg	1.0	1.9	10/17/96	SMSSVOA124
2,3,4,6-Tetrachlorophenol	ND	mg/Kg	2.5	1.9	10/17/96	SMSSVOA124
Azobenzene	ND	mg/Kg	1.0	1.9	10/17/96	SMSSVOA124
Dibenz(a,h)anthracene	ND	mg/Kg	1.0	1.9	10/17/96	SMSSVOA124

Lab ID: 9610005-01D
Sample ID: CA39/7-96-0930-1334

Collected: 09/30/96 13:34:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
% SOLIDS(TCLP XT)EPA 160.3	100.00	% (Percent)				
(FAA) DIG SOIL/SW846 3050	10/02/96	N/A				
BARIUM (FAA)/SW846 7080						
Barium, Ba	99.6	mg/Kg	25	10	10/08/96	M961
CVAA Hg XT/SW846 7471	10/09/96	N/A				
MERCURY (CVAA)/SW846 7471						
cury	ND	mg/Kg	0.15	1.0	10/10/96	M9623
CP) DIG /SW846 3050	10/02/96	N/A				
LS-ICP/SW846 6010						
Silver, Ag	ND	mg/Kg	1.0	1.0	10/03/96	M961
Aluminum, Al	NT	mg/Kg	25			M961

ID: 9610005-01D
Sample ID: CA39/7-96-0930-1334

Collected: 09/30/96 13:34:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
METALS-ICP/SW846 6010						
Arsenic, As	ND	mg/Kg	3.0	1.0	10/03/96	M961
Barium, Ba	NT	mg/Kg	0.50			M961
Beryllium, Be	NT	mg/Kg	0.50			M961
Calcium, Ca	NT	mg/Kg	15			M961
Cadmium, Cd	ND	mg/Kg	0.20	1.0	10/03/96	M961
Cobalt, Co	NT	mg/Kg	0.50			M961
Chromium, Cr	11.2	mg/Kg	1.0	1.0	10/03/96	M961
Copper, Cu	NT	mg/Kg	0.50			M961
Iron, Fe	NT	mg/Kg	15			M961
Potassium, K	NT	mg/Kg	10			M961
Magnesium, Mg	NT	mg/Kg	10			M961
Manganese, Mn	NT	mg/Kg	0.25			M961
Sodium, Na	NT	mg/Kg	15			M961
Nickel, Ni	8.9	mg/Kg	2.0	1.0	10/03/96	M961
Lead, Pb	15.4	mg/Kg	2.0	1.0	10/03/96	M961
Antimony, Sb	NT	mg/Kg	1.5			M961
Selenium, Se	ND	mg/Kg	2.5	1.0	10/03/96	M961
Vanadium, V	NT	mg/Kg	0.15			M961
Zinc, Zn	NT	mg/Kg	5.0			M961
TCLP (ICP) DIG/1311/3005	10/09/96	N/A				
TCLP EXTRACTION/TCLP 1311	10/07/96	N/A				
TCLP METALS/1311/SW8466010						
Arsenic, As	ND	mg/L	0.40	1.0	10/10/96	M9619,M9629
Barium, Ba	1.3	mg/L	0.50	1.0	10/10/96	M9619,M9629
ium, Cd	ND	mg/L	0.0050	1.0	10/10/96	M9619,M9629
ium, Cr	ND	mg/L	0.020	1.0	10/10/96	M9619,M9629
, Pb	0.06	mg/L	0.050	1.0	10/10/96	M9619,M9629
Mercury, Hg	ND	mg/L	0.0020	1.0	10/11/96	M9619,M9629
Selenium, Se	ND	mg/L	0.050	1.0	10/10/96	M9619,M9629
Silver, Ag	ND	mg/L	0.040	1.0	10/10/96	M9619,M9629
TCLP(CVAA)Hg XT/SW846 7471	10/11/96	N/A				

Lab ID: 9610005-02A
Sample ID: CA38/8-96-0930-0805

Collected: 09/30/96 08:05:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
Diesel Range OG Soil/M8015						
Diesel Range OG in Soil	ND	mg/Kg	50	1.0	10/10/96	SDRO002

Lab ID: 9610005-02B
Sample ID: CA38/8-96-0930-0805

Collected: 09/30/96 08:05:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
VOLATILES/SW846 8260						
Dichlorodifluoromethane	ND	mg/Kg	0.010	5.0	10/04/96	SMSVOA396
Chloromethane	ND	mg/Kg	0.0050	5.0	10/04/96	SMSVOA396
omethane	ND	mg/Kg	0.0050	5.0	10/04/96	SMSVOA396
ne	ND	mg/Kg	0.0050	5.0	10/04/96	SMSVOA396
omethane	ND	mg/Kg	0.0050	5.0	10/04/96	SMSVOA396
yl Chloride	ND	mg/Kg	0.0050	5.0	10/04/96	SMSVOA396
Chloroethane	ND	mg/Kg	0.0050	5.0	10/04/96	SMSVOA396

ID: 9610005-02B
Sample ID: CA38/8-96-0930-0805

Collected: 09/30/96 08:05:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
VOLATILES/SW846 8260						
Trichlorofluoromethane	ND	mg/Kg	0.0050	5.0	10/04/96	SMSVOA396
Freon 113	NT	mg/Kg	0.0050			SMSVOA396
Carbon Disulfide	ND	mg/Kg	0.0050	5.0	10/04/96	SMSVOA396
Acrolein	NT	mg/Kg	0.020			SMSVOA396
Methylene Chloride	ND	mg/Kg	0.010	5.0	10/04/96	SMSVOA396
1,1-Dichloroethene	ND	mg/Kg	0.0010	5.0	10/04/96	SMSVOA396
1,1-Dichloroethane	ND	mg/Kg	0.0010	5.0	10/04/96	SMSVOA396
Acrylonitrile	ND	mg/Kg	0.020	5.0	10/04/96	SMSVOA396
trans-1,2-Dichloroethene	ND	mg/Kg	0.0010	5.0	10/04/96	SMSVOA396
Chloroform	ND	mg/Kg	0.0010	5.0	10/04/96	SMSVOA396
1,2-Dichloroethane	ND	mg/Kg	0.0010	5.0	10/04/96	SMSVOA396
Vinyl Acetate	ND	mg/Kg	0.0050	5.0	10/04/96	SMSVOA396
cis-1,2-Dichloroethene	ND	mg/Kg	0.0010	5.0	10/04/96	SMSVOA396
2-Butanone (MEK)	ND	mg/Kg	0.0050	5.0	10/04/96	SMSVOA396
1,1,1-Trichloroethane	ND	mg/Kg	0.0010	5.0	10/04/96	SMSVOA396
Carbon Tetrachloride	ND	mg/Kg	0.0010	5.0	10/04/96	SMSVOA396
Bromodichloromethane	ND	mg/Kg	0.0010	5.0	10/04/96	SMSVOA396
1,2-Dichloropropane	ND	mg/Kg	0.0010	5.0	10/04/96	SMSVOA396
Dibromomethane	ND	mg/Kg	0.0010	5.0	10/04/96	SMSVOA396
trans-1,3-Dichloropropene	ND	mg/Kg	0.0010	5.0	10/04/96	SMSVOA396
Trichloroethene	ND	mg/Kg	0.0010	5.0	10/04/96	SMSVOA396
Chlorodibromomethane	ND	mg/Kg	0.0010	5.0	10/04/96	SMSVOA396
Ethyl Methacrylate	ND	mg/Kg	0.0050	5.0	10/04/96	SMSVOA396
?-Chloroethylvinyl Ether	ND	mg/Kg	0.0050	5.0	10/04/96	SMSVOA396
·Trichloroethane	ND	mg/Kg	0.0010	5.0	10/04/96	SMSVOA396
ne	ND	mg/Kg	0.0010	5.0	10/04/96	SMSVOA396
,3-Dichloropropene	ND	mg/Kg	0.0010	5.0	10/04/96	SMSVOA396
Bromoform	ND	mg/Kg	0.0010	5.0	10/04/96	SMSVOA396
4-Methyl-2-Pentanone (MIBK)	ND	mg/Kg	0.0050	5.0	10/04/96	SMSVOA396
Tetrachloroethene	ND	mg/Kg	0.0010	5.0	10/04/96	SMSVOA396
1,1,2,2-Tetrachloroethane	ND	mg/Kg	0.0010	5.0	10/04/96	SMSVOA396
1,2-Dibromoethane	ND	mg/Kg	0.0010	5.0	10/04/96	SMSVOA396
2-Hexanone (MBK)	ND	mg/Kg	0.0050	5.0	10/04/96	SMSVOA396
1,1,1,2-Tetrachloroethane	ND	mg/Kg	0.0010	5.0	10/04/96	SMSVOA396
Toluene	ND	mg/Kg	0.0010	5.0	10/04/96	SMSVOA396
Chlorobenzene	ND	mg/Kg	0.0010	5.0	10/04/96	SMSVOA396
Ethylbenzene	ND	mg/Kg	0.0010	5.0	10/04/96	SMSVOA396
1,4-Dichloro-2-Butene	ND	mg/Kg	0.010	5.0	10/04/96	SMSVOA396
Styrene	ND	mg/Kg	0.0010	5.0	10/04/96	SMSVOA396
P/M Xylene	ND	mg/Kg	0.0020	5.0	10/04/96	SMSVOA396
O-Xylene	ND	mg/Kg	0.0010	5.0	10/04/96	SMSVOA396
1,2,3-Trichloropropane	ND	mg/Kg	0.0010	5.0	10/04/96	SMSVOA396
Methyl-tert Butyl Ether	ND	mg/Kg	0.010	5.0	10/04/96	SMSVOA396
1,2-Dichlorobenzene	ND	mg/Kg	0.0010	5.0	10/04/96	SMSVOA396
1,3-Dichlorobenzene	ND	mg/Kg	0.0010	5.0	10/04/96	SMSVOA396
1,4-Dichlorobenzene	ND	mg/Kg	0.0010	5.0	10/04/96	SMSVOA396

Lab ID: 9610005-02C
Sample ID: CA38/8-96-0930-0805

Collected: 09/30/96 08:05:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
SVOA(SOX) Soil/SW846 8270B	10/07/96	N/A				
·rosodimethylamine	ND	mg/Kg	1.0	1.9	10/17/96	SMSSVOA124
ıe	ND	mg/Kg	10	1.9	10/17/96	SMSSVOA124
.e	ND	mg/Kg	10	1.9	10/17/96	SMSSVOA124
bis(2-Chloroethyl) Ether	ND	mg/Kg	0.50	1.9	10/17/96	SMSSVOA124
2-Chlorophenol	ND	mg/Kg	0.50	1.9	10/17/96	SMSSVOA124

ID: 9610005-02C
Sample ID: CA38/8-96-0930-0805

Collected: 09/30/96 08:05:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
SVOA(SOX) Soil/SW846 8270B						
1,3-Dichlorobenzene	ND	mg/Kg	0.50	1.9	10/17/96	SMSSVOA124
1,4-Dichlorobenzene	ND	mg/Kg	0.50	1.9	10/17/96	SMSSVOA124
Phenol	ND	mg/Kg	0.50	1.9	10/17/96	SMSSVOA124
1,2-Dichlorobenzene	ND	mg/Kg	0.50	1.9	10/17/96	SMSSVOA124
Benzyl Alcohol	ND	mg/Kg	10	1.9	10/17/96	SMSSVOA124
bis(2-Chloroisopropyl) Ether	ND	mg/Kg	1.0	1.9	10/17/96	SMSSVOA124
2-Methylphenol / O-Cresol	ND	mg/Kg	0.50	1.9	10/17/96	SMSSVOA124
Hexachloroethane	ND	mg/Kg	0.50	1.9	10/17/96	SMSSVOA124
n-Nitroso-di-n-propylamine	ND	mg/Kg	0.50	1.9	10/17/96	SMSSVOA124
Nitrobenzene	ND	mg/Kg	0.50	1.9	10/17/96	SMSSVOA124
3/4 Methylphenol / M/P-Cresol	ND	mg/Kg	0.50	1.9	10/17/96	SMSSVOA124
Isophorone	ND	mg/Kg	0.50	1.9	10/17/96	SMSSVOA124
2-Nitrophenol	ND	mg/Kg	1.0	1.9	10/17/96	SMSSVOA124
bis(2-Chloroethoxy) Methane	ND	mg/Kg	0.50	1.9	10/17/96	SMSSVOA124
2,4-Dimethylphenol	ND	mg/Kg	1.0	1.9	10/17/96	SMSSVOA124
1,2,4-Trichlorobenzene	ND	mg/Kg	0.50	1.9	10/17/96	SMSSVOA124
Naphthalene	ND	mg/Kg	0.50	1.9	10/17/96	SMSSVOA124
Benzoic Acid	ND	mg/Kg	10	1.9	10/17/96	SMSSVOA124
2,4-Dichlorophenol	ND	mg/Kg	1.0	1.9	10/17/96	SMSSVOA124
4-Chloroaniline	ND	mg/Kg	10	1.9	10/17/96	SMSSVOA124
Hexachlorobutadiene	ND	mg/Kg	0.50	1.9	10/17/96	SMSSVOA124
2-Methylnaphthalene	ND	mg/Kg	0.50	1.9	10/17/96	SMSSVOA124
4-Chloro-3-methylphenol	ND	mg/Kg	0.50	1.9	10/17/96	SMSSVOA124
Hexachlorocyclopentadiene	ND	mg/Kg	10	1.9	10/17/96	SMSSVOA124
-Trichlorophenol	ND	mg/Kg	1.0	1.9	10/17/96	SMSSVOA124
Trichlorophenol	ND	mg/Kg	1.0	1.9	10/17/96	SMSSVOA124
oronaphthalene	ND	mg/Kg	0.50	1.9	10/17/96	SMSSVOA124
2-Nitroaniline	ND	mg/Kg	1.0	1.9	10/17/96	SMSSVOA124
Acenaphthylene	ND	mg/Kg	0.50	1.9	10/17/96	SMSSVOA124
Dimethylphthalate	ND	mg/Kg	0.50	1.9	10/17/96	SMSSVOA124
2,6-Dinitrotoluene	ND	mg/Kg	1.0	1.9	10/17/96	SMSSVOA124
Acenaphthene	ND	mg/Kg	0.50	1.9	10/17/96	SMSSVOA124
3-Nitroaniline	ND	mg/Kg	10	1.9	10/17/96	SMSSVOA124
Dibenzofuran	ND	mg/Kg	0.50	1.9	10/17/96	SMSSVOA124
2,4-Dinitrotoluene	ND	mg/Kg	2.5	1.9	10/17/96	SMSSVOA124
Fluorene	ND	mg/Kg	0.50	1.9	10/17/96	SMSSVOA124
4-Chlorophenyl-phenylether	ND	mg/Kg	0.50	1.9	10/17/96	SMSSVOA124
Diethylphthalate	ND	mg/Kg	0.50	1.9	10/17/96	SMSSVOA124
4-Nitrophenol	ND	mg/Kg	10	1.9	10/17/96	SMSSVOA124
4,6-Dinitro-2-methylphenol	ND	mg/Kg	10	1.9	10/17/96	SMSSVOA124
n-Nitrosodiphenylamine	ND	mg/Kg	0.50	1.9	10/17/96	SMSSVOA124
4-Nitroaniline	ND	mg/Kg	10	1.9	10/17/96	SMSSVOA124
4-Bromophenyl-phenylether	ND	mg/Kg	0.50	1.9	10/17/96	SMSSVOA124
Hexachlorobenzene	ND	mg/Kg	0.50	1.9	10/17/96	SMSSVOA124
Pentachlorophenol	ND	mg/Kg	10	1.9	10/17/96	SMSSVOA124
2,4-Dinitrophenol	ND	mg/Kg	10	1.9	10/17/96	SMSSVOA124
Phenanthrene	ND	mg/Kg	0.50	1.9	10/17/96	SMSSVOA124
Anthracene	ND	mg/Kg	0.50	1.9	10/17/96	SMSSVOA124
Di-n-butylphthalate	13B	mg/Kg	5.0	1.9	10/17/96	SMSSVOA124
Fluoranthene	ND	mg/Kg	0.50	1.9	10/17/96	SMSSVOA124
Pyrene	ND	mg/Kg	0.50	1.9	10/17/96	SMSSVOA124
Butylbenzylphthalate	ND	mg/Kg	0.50	1.9	10/17/96	SMSSVOA124
Benzo(a)anthracene	ND	mg/Kg	0.50	1.9	10/17/96	SMSSVOA124
Chrysene	ND	mg/Kg	0.50	1.9	10/17/96	SMSSVOA124
3,3'-Dichlorobenzidine	ND	mg/Kg	10	1.9	10/17/96	SMSSVOA124
bis(2-Ethylhexyl)phthalate	ND	mg/Kg	2.5	1.9	10/17/96	SMSSVOA124
Di-n-octyl phthalate	ND	mg/Kg	0.50	1.9	10/17/96	SMSSVOA124
nzo(b)+(k)fluoranthene	ND	mg/Kg	0.50	1.9	10/17/96	SMSSVOA124
hylnaphthalene	ND	mg/Kg	1.0	1.9	10/17/96	SMSSVOA124
(a)pyrene	ND	mg/Kg	0.50	1.9	10/17/96	SMSSVOA124
o(1,2,3-cd)pyrene	ND	mg/Kg	1.0	1.9	10/17/96	SMSSVOA124
Benzo(g,h,i)perylene	ND	mg/Kg	1.0	1.9	10/17/96	SMSSVOA124
2,3,4,6-Tetrachlorophenol	ND	mg/Kg	2.5	1.9	10/17/96	SMSSVOA124

ID: 9610005-02C **Collected:** 09/30/96 08:05:00
Sample ID: CA38/8-96-0930-0805 **Matrix:** SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
SVOA(SOX) Soil/SW846 8270B						
Azobenzene	ND	mg/Kg	1.0	1.9	10/17/96	SMSSVOA124
Dibenz(a,h)anthracene	ND	mg/Kg	1.0	1.9	10/17/96	SMSSVOA124

Lab ID: 9610005-02D **Collected:** 09/30/96 08:05:00
Sample ID: CA38/8-96-0930-0805 **Matrix:** SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
% SOLIDS(TCLP XT)EPA 160.3	100.00	% (Percent)				
(FAA) DIG SOIL/SW846 3050	10/02/96	N/A				
BARIUM (FAA)/SW846 7080						
Barium, Ba	54.4	mg/Kg	25	1.0	10/08/96	M961
CVAA Hg XT/SW846 7471	10/09/96	N/A				
MERCURY (CVAA)/SW846 7471						
Mercury	ND	mg/Kg	0.15	1.0	10/10/96	M9623
Metal(ICP) DIG /SW846 3050	10/02/96	N/A				
METALS-ICP/SW846 6010						
Silver, Ag	ND	mg/Kg	1.0	1.0	10/03/96	M961
Aluminum, Al	NT	mg/Kg	25			M961
[illegible]nic, As	ND	mg/Kg	3.0	1.0	10/03/96	M961
[illegible]n, Ba	NT	mg/Kg	0.50			M961
[illegible]ium, Be	NT	mg/Kg	0.50			M961
Calcium, Ca	NT	mg/Kg	15			M961
Cadmium, Cd	ND	mg/Kg	0.20	1.0	10/03/96	M961
Cobalt, Co	NT	mg/Kg	0.50			M961
Chromium, Cr	8.0	mg/Kg	1.0	1.0	10/03/96	M961
Copper, Cu	NT	mg/Kg	0.50			M961
Iron, Fe	NT	mg/Kg	15			M961
Potassium, K	NT	mg/Kg	10			M961
Magnesium, Mg	NT	mg/Kg	10			M961
Manganese, Mn	NT	mg/Kg	0.25			M961
Sodium, Na	NT	mg/Kg	15			M961
Nickel, Ni	6.5	mg/Kg	2.0	1.0	10/03/96	M961
Lead, Pb	4.2	mg/Kg	2.0	1.0	10/03/96	M961
Antimony, Sb	NT	mg/Kg	1.5			M961
Selenium, Se	ND	mg/Kg	2.5	1.0	10/03/96	M961
Vanadium, V	NT	mg/Kg	0.15			M961
Zinc, Zn	NT	mg/Kg	5.0			M961
TCLP (ICP) DIG/1311/3005	10/09/96	N/A				
TCLP EXTRACTION/TCLP 1311	10/07/96	N/A				
TCLP METALS/1311/SW8466010						
Arsenic, As	ND	mg/L	0.40	1.0	10/10/96	M9619,M 9629
Barium, Ba	0.8	mg/L	0.50	1.0	10/10/96	M9619,M 9629
Cadmium, Cd	ND	mg/L	0.0050	1.0	10/10/96	M9619,M 9629
Chromium, Cr	ND	mg/L	0.020	1.0	10/10/96	M9619,M 9629
Lead, Pb	ND	mg/L	0.050	1.0	10/10/96	M9619,M 9629
Mercury, Hg	ND	mg/L	0.0020	1.0	10/11/96	M9619,M 9629
Selenium, Se	ND	mg/L	0.050	1.0	10/10/96	M9619,M 9629
Silver, Ag	ND	mg/L	0.040	1.0	10/10/96	M9619,M 9629
TCLP(CVAA)Hg XT/SW846 7471	10/11/96	N/A				

ID: 9610005-03A **Collected:** 09/30/96 10:00:00
Sample ID: CA39/8-96-0930-1000 **Matrix:** SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
% SOLIDS(TCLP XT)EPA 160.3	100.00	% (Percent)				
(FAA) DIG SOIL/SW846 3050	10/02/96	N/A				
BARIUM (FAA)/SW846 7080						
Barium, Ba	108	mg/Kg	25	1.0	10/08/96	M961
CVAA Hg XT/SW846 7471	10/09/96	N/A				
MERCURY (CVAA)/SW846 7471						
Mercury	ND	mg/Kg	0.15	1.0	10/10/96	M9623
Metal(ICP) DIG /SW846 3050	10/02/96	N/A				
METALS-ICP/SW846 6010						
Silver, Ag	ND	mg/Kg	1.0	1.0	10/03/96	M961
Aluminum, Al	NT	mg/Kg	25			M961
Arsenic, As	ND	mg/Kg	3.0	1.0	10/03/96	M961
Barium, Ba	NT	mg/Kg	0.50			M961
Beryllium, Be	NT	mg/Kg	0.50			M961
Calcium, Ca	NT	mg/Kg	15			M961
Cadmium, Cd	ND	mg/Kg	0.20	1.0	10/03/96	M961
Cobalt, Co	NT	mg/Kg	0.50			M961
Chromium, Cr	11.2	mg/Kg	1.0	1.0	10/03/96	M961
Copper, Cu	NT	mg/Kg	0.50			M961
Iron, Fe	NT	mg/Kg	15			M961
Potassium, K	NT	mg/Kg	10			M961
Magnesium, Mg	NT	mg/Kg	10			M961
Manganese, Mn	NT	mg/Kg	0.25			M961
Sodium, Na	NT	mg/Kg	15			M961
Nickel, Ni	9.0	mg/Kg	2.0	1.0	10/03/96	M961
' Pb	16.6	mg/Kg	2.0	1.0	10/03/96	M961
ony, Sb	NT	mg/Kg	1.5			M961
ıum, Se	ND	mg/Kg	2.5	1.0	10/03/96	M961
Vanadium, V	NT	mg/Kg	0.15			M961
Zinc, Zn	NT	mg/Kg	5.0			M961
TCLP (ICP) DIG/1311/3005	10/09/96	N/A				
TCLP EXTRACTION/TCLP 1311	10/07/96	N/A				
TCLP METALS/1311/SW8466010						
Arsenic, As	ND	mg/L	0.40	1.0	10/10/96	M9619,M9629
Barium, Ba	1.2	mg/L	0.50	1.0	10/10/96	M9619,M9629
Cadmium, Cd	ND	mg/L	0.0050	1.0	10/10/96	M9619,M9629
Chromium, Cr	ND	mg/L	0.020	1.0	10/10/96	M9619,M9629
Lead, Pb	ND	mg/L	0.050	1.0	10/10/96	M9619,M9629
Mercury, Hg	ND	mg/L	0.0020	1.0	10/11/96	M9619,M9629
Selenium, Se	ND	mg/L	0.050	1.0	10/10/96	M9619,M9629
Silver, Ag	ND	mg/L	0.040	1.0	10/10/96	M9619,M9629
TCLP(CVAA)Hg XT/SW846 7471	10/11/96	N/A				

Lab ID: 9610005-04A **Collected:** 09/30/96 08:02:00
Sample ID: CA38/4-96-0930-0802 **Matrix:** SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
BTEX/SW846 8020A						
Benzene	ND	mg/Kg	0.0010	5.0	10/08/96	SBTXME133
Toluene	ND	mg/Kg	0.0010	5.0	10/08/96	SBTXME133
Ethylbenzene	ND	mg/Kg	0.0010	5.0	10/08/96	SBTXME133
P-&m-Xylene	ND	mg/Kg	0.0010	5.0	10/08/96	SBTXME133
O-Xylene	ND	mg/Kg	0.0010	5.0	10/08/96	SBTXME133
ıl Range OG Soil/M8015						
' Range OG in Soil	ND	mg/Kg	50	1.0	10/10/96	SDRO002

WORKORDER COMMENTS

DATE : 10/29/96
WORKORDER:

DEFINITIONS/DATA QUALIFIERS

The following are definitions, abbreviations, and data qualifiers which may have been utilized in your report:

ND = Analyte "not detected" in analysis at the sample specific detection limit.
D_F = Sample "dilution factor"
NT = Analyte "not tested" per client request.
B = Analyte was also detected in laboratory method QC blank.
E = Analyte concentration (result) is an estimated value or exceeds analysis calibration range.
LIMIT = The minimum amount of the analyte that AAL can detect utilizing the specified analysis.

Please Note: Multiply the "Limit" value (AAL's Detection Limit) by Dilution Factor (D_F) to obtain the sample specific Detection Limit.

*** Analytical results reported pertain only to the samples provided ***
*** for analysis and may not represent actual field conditions. ***
*** ***
*** This report is not to be reproduced except in full, without the ***
*** written approval of Assaigai Analytical Inc. ***

REPORT COMMENTS

ID: 9610005-05A
Sample ID: CA38/5-96-0930-0803

Collected: 09/30/96 08:03:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
BTEX/SW846 8020A						
Benzene	ND	mg/Kg	0.0010	5.0	10/08/96	SBTXME133
Toluene	ND	mg/Kg	0.0010	5.0	10/08/96	SBTXME133
Ethylbenzene	ND	mg/Kg	0.0010	5.0	10/08/96	SBTXME133
P-&m-Xylene	ND	mg/Kg	0.0010	5.0	10/08/96	SBTXME133
O-Xylene	ND	mg/Kg	0.0010	5.0	10/08/96	SBTXME133
Diesel Range OG Soil/M8015						
Diesel Range OG in Soil	ND	mg/Kg	50	1.0	10/10/96	SDRO002

Lab ID: 9610005-06A
Sample ID: CA39/5-96-0930-1332

Collected: 09/30/96 13:32:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
BTEX/SW846 8020A						
Benzene	ND	mg/Kg	0.0010	5.0	10/08/96	SBTXME133
Toluene	ND	mg/Kg	0.0010	5.0	10/08/96	SBTXME133
Ethylbenzene	ND	mg/Kg	0.0010	5.0	10/08/96	SBTXME133
P-&m-Xylene	ND	mg/Kg	0.0010	5.0	10/08/96	SBTXME133
O-Xylene	ND	mg/Kg	0.0010	5.0	10/08/96	SBTXME133
Range OG Soil/M8015						
Range OG in Soil	ND	mg/Kg	50	1.0	10/10/96	SDRO002

Lab ID: 9610005-06B
Sample ID: CA39/5-96-0930-1332

Collected: 09/30/96 13:32:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
SAMPLE HOLD	N/A	N/A				

Fred L. Shore, Ph.D.
VP of Laboratory Operations

Have not been billed

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Report Generated:
October 23, 1996 11:21

CERTIFICATE OF ANALYSIS
RESULTS BY SAMPLE

SENT TO: CHEYENNE BUILDING CONTRACTORS
P.O. BOX 418
CLOVIS, NM 88101

ATTN: MIKE LANDGRAF

WORKORDER # : 9610005
WORK ID : DACA47-95-D-0035
CLIENT CODE : CHE10
DATE RECEIVED : 10/01/96

Lab ID: 9610005-01A
Sample ID: CA39/7-96-0930-1334
Collected: 09/30/96 13:34:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
Diesel Range OG Soil/M8015						
Diesel Range OG in Soil	ND	mg/Kg	50	1.0	10/10/96	SDRO002

Lab ID: 9610005-01B
Sample ID: CA39/7-96-0930-1334
Collected: 09/30/96 13:34:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
VOLATILES/SW846 8260						
Dichlorodifluoromethane	ND	mg/Kg	0.010	5.0	10/04/96	SMSVOA396
Chloromethane	ND	mg/Kg	0.0050	5.0	10/04/96	SMSVOA396
Iodomethane	ND	mg/Kg	0.0050	5.0	10/04/96	SMSVOA396
Acetone	ND	mg/Kg	0.0050	5.0	10/04/96	SMSVOA396
Bromomethane	ND	mg/Kg	0.0050	5.0	10/04/96	SMSVOA396
Vinyl Chloride	ND	mg/Kg	0.0050	5.0	10/04/96	SMSVOA396
Chloroethane	ND	mg/Kg	0.0050	5.0	10/04/96	SMSVOA396
Trichlorofluoromethane	ND	mg/Kg	0.0050	5.0	10/04/96	SMSVOA396
Freon 113	NT	mg/Kg	0.0050			SMSVOA396
Carbon Disulfide	ND	mg/Kg	0.0050	5.0	10/04/96	SMSVOA396
Acrolein	NT	mg/Kg	0.020			SMSVOA396
Methylene Chloride	ND	mg/Kg	0.010	5.0	10/04/96	SMSVOA396
1,1-Dichloroethene	ND	mg/Kg	0.0010	5.0	10/04/96	SMSVOA396
1,1-Dichloroethane	ND	mg/Kg	0.0010	5.0	10/04/96	SMSVOA396
Acrylonitrile	ND	mg/Kg	0.020	5.0	10/04/96	SMSVOA396
trans-1,2-Dichloroethene	ND	mg/Kg	0.0010	5.0	10/04/96	SMSVOA396
Chloroform	ND	mg/Kg	0.0010	5.0	10/04/96	SMSVOA396
1,2-Dichloroethane	ND	mg/Kg	0.0010	5.0	10/04/96	SMSVOA396
Vinyl Acetate	ND	mg/Kg	0.0050	5.0	10/04/96	SMSVOA396
cis-1,2-Dichloroethene	ND	mg/Kg	0.0010	5.0	10/04/96	SMSVOA396
2-Butanone (MEK)	ND	mg/Kg	0.0050	5.0	10/04/96	SMSVOA396
1,1,1-Trichloroethane	ND	mg/Kg	0.0010	5.0	10/04/96	SMSVOA396
Carbon Tetrachloride	ND	mg/Kg	0.0010	5.0	10/04/96	SMSVOA396
Bromodichloromethane	ND	mg/Kg	0.0010	5.0	10/04/96	SMSVOA396
1,2-Dichloropropane	ND	mg/Kg	0.0010	5.0	10/04/96	SMSVOA396
Dibromomethane	ND	mg/Kg	0.0010	5.0	10/04/96	SMSVOA396
trans-1,3-Dichloropropene	ND	mg/Kg	0.0010	5.0	10/04/96	SMSVOA396
Tetrachloroethene	ND	mg/Kg	0.0010	5.0	10/04/96	SMSVOA396
Chlorodibromomethane	ND	mg/Kg	0.0010	5.0	10/04/96	SMSVOA396
Methacrylate	ND	mg/Kg	0.0050	5.0	10/04/96	SMSVOA396
2-Chloroethylvinyl Ether	ND	mg/Kg	0.0050	5.0	10/04/96	SMSVOA396

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ID: 9610005-01B
Sample ID: CA39/7-96-0930-1334

Collected: 09/30/96 13:34:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
VOLATILES/SW846 8260						
1,1,2-Trichloroethane	ND	mg/Kg	0.0010	5.0	10/04/96	SMSVOA396
Benzene	ND	mg/Kg	0.0010	5.0	10/04/96	SMSVOA396
cis-1,3-Dichloropropene	ND	mg/Kg	0.0010	5.0	10/04/96	SMSVOA396
Bromoform	ND	mg/Kg	0.0010	5.0	10/04/96	SMSVOA396
4-Methyl-2-Pentanone (MIBK)	ND	mg/Kg	0.0050	5.0	10/04/96	SMSVOA396
Tetrachloroethene	ND	mg/Kg	0.0010	5.0	10/04/96	SMSVOA396
1,1,2,2-Tetrachloroethane	ND	mg/Kg	0.0010	5.0	10/04/96	SMSVOA396
1,2-Dibromoethane	ND	mg/Kg	0.0010	5.0	10/04/96	SMSVOA396
2-Hexanone (MBK)	ND	mg/Kg	0.0050	5.0	10/04/96	SMSVOA396
1,1,1,2-Tetrachloroethane	ND	mg/Kg	0.0010	5.0	10/04/96	SMSVOA396
Toluene	ND	mg/Kg	0.0010	5.0	10/04/96	SMSVOA396
Chlorobenzene	ND	mg/Kg	0.0010	5.0	10/04/96	SMSVOA396
Ethylbenzene	ND	mg/Kg	0.0010	5.0	10/04/96	SMSVOA396
1,4-Dichloro-2-Butene	ND	mg/Kg	0.010	5.0	10/04/96	SMSVOA396
Styrene	ND	mg/Kg	0.0010	5.0	10/04/96	SMSVOA396
P/M Xylene	ND	mg/Kg	0.0020	5.0	10/04/96	SMSVOA396
O-Xylene	ND	mg/Kg	0.0010	5.0	10/04/96	SMSVOA396
1,2,3-Trichloropropane	ND	mg/Kg	0.0010	5.0	10/04/96	SMSVOA396
Methyl-tert Butyl Ether	ND	mg/Kg	0.010	5.0	10/04/96	SMSVOA396
1,2-Dichlorobenzene	ND	mg/Kg	0.0010	5.0	10/04/96	SMSVOA396
1,3-Dichlorobenzene	ND	mg/Kg	0.0010	5.0	10/04/96	SMSVOA396
1,4-Dichlorobenzene	ND	mg/Kg	0.0010	5.0	10/04/96	SMSVOA396

ID: 9610005-01C
Sample ID: CA39/7-96-0930-1334

Collected: 09/30/96 13:34:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
SVOA(SOX) Soil/SW846 8270B	10/07/96	N/A				
n-Nitrosodimethylamine	ND	mg/Kg	1.0	1.9	10/17/96	SMSSVOA124
Pyridine	ND	mg/Kg	10	1.9	10/17/96	SMSSVOA124
Aniline	ND	mg/Kg	10	1.9	10/17/96	SMSSVOA124
bis(2-Chloroethyl) Ether	ND	mg/Kg	0.50	1.9	10/17/96	SMSSVOA124
2-Chlorophenol	ND	mg/Kg	0.50	1.9	10/17/96	SMSSVOA124
1,3-Dichlorobenzene	ND	mg/Kg	0.50	1.9	10/17/96	SMSSVOA124
1,4-Dichlorobenzene	ND	mg/Kg	0.50	1.9	10/17/96	SMSSVOA124
Phenol	ND	mg/Kg	0.50	1.9	10/17/96	SMSSVOA124
1,2-Dichlorobenzene	ND	mg/Kg	0.50	1.9	10/17/96	SMSSVOA124
Benzyl Alcohol	ND	mg/Kg	10	1.9	10/17/96	SMSSVOA124
bis(2-Chloroisopropyl) Ether	ND	mg/Kg	1.0	1.9	10/17/96	SMSSVOA124
2-Methylphenol / O-Cresol	ND	mg/Kg	0.50	1.9	10/17/96	SMSSVOA124
Hexachloroethane	ND	mg/Kg	0.50	1.9	10/17/96	SMSSVOA124
n-Nitroso-di-n-propylamine	ND	mg/Kg	0.50	1.9	10/17/96	SMSSVOA124
Nitrobenzene	ND	mg/Kg	0.50	1.9	10/17/96	SMSSVOA124
3/4 Methylphenol / M/P-Cresol	ND	mg/Kg	0.50	1.9	10/17/96	SMSSVOA124
Isophorone	ND	mg/Kg	0.50	1.9	10/17/96	SMSSVOA124
2-Nitrophenol	ND	mg/Kg	1.0	1.9	10/17/96	SMSSVOA124
bis(2-Chloroethoxy) Methane	ND	mg/Kg	0.50	1.9	10/17/96	SMSSVOA124
2,4-Dimethylphenol	ND	mg/Kg	1.0	1.9	10/17/96	SMSSVOA124
1,2,4-Trichlorobenzene	ND	mg/Kg	0.50	1.9	10/17/96	SMSSVOA124
Naphthalene	ND	mg/Kg	0.50	1.9	10/17/96	SMSSVOA124
Benzoic Acid	ND	mg/Kg	10	1.9	10/17/96	SMSSVOA124
2,4-Dichlorophenol	ND	mg/Kg	1.0	1.9	10/17/96	SMSSVOA124
hloroaniline	ND	mg/Kg	10	1.9	10/17/96	SMSSVOA124
hlorobutadiene	ND	mg/Kg	0.50	1.9	10/17/96	SMSSVOA124
ylnaphthalene	ND	mg/Kg	0.50	1.9	10/17/96	SMSSVOA124
oro-3-methylphenol	ND	mg/Kg	0.50	1.9	10/17/96	SMSSVOA124
Hexachlorocyclopentadiene	ND	mg/Kg	10	1.9	10/17/96	SMSSVOA124

ID: 9610005-01C
ple ID: CA39/7-96-0930-1334

Collected: 09/30/96 13:34:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
SVOA(SOX) Soil/SW846 8270B						
2,4,6-Trichlorophenol	ND	mg/Kg	1.0	1.9	10/17/96	SMSSVOA124
2,4,5-Trichlorophenol	ND	mg/Kg	1.0	1.9	10/17/96	SMSSVOA124
2-Chloronaphthalene	ND	mg/Kg	0.50	1.9	10/17/96	SMSSVOA124
2-Nitroaniline	ND	mg/Kg	1.0	1.9	10/17/96	SMSSVOA124
Acenaphthylene	ND	mg/Kg	0.50	1.9	10/17/96	SMSSVOA124
Dimethylphthalate	ND	mg/Kg	0.50	1.9	10/17/96	SMSSVOA124
2,6-Dinitrotoluene	ND	mg/Kg	1.0	1.9	10/17/96	SMSSVOA124
Acenaphthene	ND	mg/Kg	0.50	1.9	10/17/96	SMSSVOA124
3-Nitroaniline	ND	mg/Kg	10	1.9	10/17/96	SMSSVOA124
Dibenzofuran	ND	mg/Kg	0.50	1.9	10/17/96	SMSSVOA124
2,4-Dinitrotoluene	ND	mg/Kg	2.5	1.9	10/17/96	SMSSVOA124
Fluorene	ND	mg/Kg	0.50	1.9	10/17/96	SMSSVOA124
4-Chlorophenyl-phenylether	ND	mg/Kg	0.50	1.9	10/17/96	SMSSVOA124
Diethylphthalate	ND	mg/Kg	0.50	1.9	10/17/96	SMSSVOA124
4-Nitrophenol	ND	mg/Kg	10	1.9	10/17/96	SMSSVOA124
4,6-Dinitro-2-methylphenol	ND	mg/Kg	10	1.9	10/17/96	SMSSVOA124
n-Nitrosodiphenylamine	ND	mg/Kg	0.50	1.9	10/17/96	SMSSVOA124
4-Nitroaniline	ND	mg/Kg	10	1.9	10/17/96	SMSSVOA124
4-Bromophenyl-phenylether	ND	mg/Kg	0.50	1.9	10/17/96	SMSSVOA124
Hexachlorobenzene	ND	mg/Kg	0.50	1.9	10/17/96	SMSSVOA124
Pentachlorophenol	ND	mg/Kg	10	1.9	10/17/96	SMSSVOA124
2,4-Dinitrophenol	ND	mg/Kg	10	1.9	10/17/96	SMSSVOA124
Phenanthrene	ND	mg/Kg	0.50	1.9	10/17/96	SMSSVOA124
Anthracene	ND	mg/Kg	0.50	1.9	10/17/96	SMSSVOA124
Di-n-butylphthalate	27B	mg/Kg	5.0	1.9	10/17/96	SMSSVOA124
anthene	ND	mg/Kg	0.50	1.9	10/17/96	SMSSVOA124
e	ND	mg/Kg	0.50	1.9	10/17/96	SMSSVOA124
ibenzylphthalate	ND	mg/Kg	0.50	1.9	10/17/96	SMSSVOA124
Benzo(a)anthracene	ND	mg/Kg	0.50	1.9	10/17/96	SMSSVOA124
Chrysene	ND	mg/Kg	0.50	1.9	10/17/96	SMSSVOA124
3,3'-Dichlorobenzidine	ND	mg/Kg	10	1.9	10/17/96	SMSSVOA124
bis(2-Ethylhexyl)phthalate	ND	mg/Kg	2.5	1.9	10/17/96	SMSSVOA124
Di-n-octyl phthalate	ND	mg/Kg	0.50	1.9	10/17/96	SMSSVOA124
Benzo(b)+(k)fluoranthene	ND	mg/Kg	0.50	1.9	10/17/96	SMSSVOA124
1-Methylnaphthalene	ND	mg/Kg	1.0	1.9	10/17/96	SMSSVOA124
Benzo(a)pyrene	ND	mg/Kg	0.50	1.9	10/17/96	SMSSVOA124
Indeno(1,2,3-cd)pyrene	ND	mg/Kg	1.0	1.9	10/17/96	SMSSVOA124
Benzo(g,h,i)perylene	ND	mg/Kg	1.0	1.9	10/17/96	SMSSVOA124
2,3,4,6-Tetrachlorophenol	ND	mg/Kg	2.5	1.9	10/17/96	SMSSVOA124
Azobenzene	ND	mg/Kg	1.0	1.9	10/17/96	SMSSVOA124
Dibenz(a,h)anthracene	ND	mg/Kg	1.0	1.9	10/17/96	SMSSVOA124

Lab ID: 9610005-01D
Sample ID: CA39/7-96-0930-1334

Collected: 09/30/96 13:34:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
% SOLIDS(TCLP XT)EPA 160.3	100.00	% (Percent)				
(FAA) DIG SOIL/SW846 3050	10/02/96	N/A				
BARIUM (FAA)/SW846 7080						
Barium, Ba	99.6	mg/Kg	25	10	10/08/96	M961
CVAA Hg XT/SW846 7471	10/09/96	N/A				
MERCURY (CVAA)/SW846 7471						
Mercury	ND	mg/Kg	0.15	1.0	10/10/96	M9623
ICP) DIG /SW846 3050	10/02/96	N/A				
S-ICP/SW846 6010						
, Ag	ND	mg/Kg	1.0	1.0	10/03/96	M961
Aluminum, Al	NT	mg/Kg	25			M961

D: 9610005-01D **Collected:** 09/30/96 13:34:00
..ple ID: CA39/7-96-0930-1334 **Matrix:** SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
METALS-ICP/SW846 6010						
Arsenic, As	ND	mg/Kg	3.0	1.0	10/03/96	M961
Barium, Ba	NT	mg/Kg	0.50			M961
Beryllium, Be	NT	mg/Kg	0.50			M961
Calcium, Ca	NT	mg/Kg	15			M961
Cadmium, Cd	ND	mg/Kg	0.20	1.0	10/03/96	M961
Cobalt, Co	NT	mg/Kg	0.50			M961
Chromium, Cr	11.2	mg/Kg	1.0	1.0	10/03/96	M961
Copper, Cu	NT	mg/Kg	0.50			M961
Iron, Fe	NT	mg/Kg	15			M961
Potassium, K	NT	mg/Kg	10			M961
Magnesium, Mg	NT	mg/Kg	10			M961
Manganese, Mn	NT	mg/Kg	0.25			M961
Sodium, Na	NT	mg/Kg	15			M961
Nickel, Ni	8.9	mg/Kg	2.0	1.0	10/03/96	M961
Lead, Pb	15.4	mg/Kg	2.0	1.0	10/03/96	M961
Antimony, Sb	NT	mg/Kg	1.5			M961
Selenium, Se	ND	mg/Kg	2.5	1.0	10/03/96	M961
Vanadium, V	NT	mg/Kg	0.15			M961
Zinc, Zn	NT	mg/Kg	5.0			M961
TCLP (ICP) DIG/1311/3005	10/09/96	N/A				
TCLP EXTRACTION/TCLP 1311	10/07/96	N/A				
TCLP METALS/1311/SW8466010						
Arsenic, As	ND	mg/L	0.40	1.0	10/10/96	M9619,M9629
Barium, Ba	1.3	mg/L	0.50	1.0	10/10/96	M9619,M9629
Cadmium, Cd	ND	mg/L	0.0050	1.0	10/10/96	M9619,M9629
nium, Cr	ND	mg/L	0.020	1.0	10/10/96	M9619,M9629
Pb	0.06	mg/L	0.050	1.0	10/10/96	M9619,M9629
..cury, Hg	ND	mg/L	0.0020	1.0	10/11/96	M9619,M9629
Selenium, Se	ND	mg/L	0.050	1.0	10/10/96	M9619,M9629
Silver, Ag	ND	mg/L	0.040	1.0	10/10/96	M9619,M9629
TCLP(CVAA)Hg XT/SW846 7471	10/11/96	N/A				

Lab ID: 9610005-02A **Collected:** 09/30/96 08:05:00
Sample ID: CA38/8-96-0930-0805 **Matrix:** SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
Diesel Range OG Soil/M8015						
Diesel Range OG in Soil	ND	mg/Kg	50	1.0	10/10/96	SDRO002

Lab ID: 9610005-02B **Collected:** 09/30/96 08:05:00
Sample ID: CA38/8-96-0930-0805 **Matrix:** SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
VOLATILES/SW846 8260						
Dichlorodifluoromethane	ND	mg/Kg	0.010	5.0	10/04/96	SMSVOA396
Chloromethane	ND	mg/Kg	0.0050	5.0	10/04/96	SMSVOA396
Iodomethane	ND	mg/Kg	0.0050	5.0	10/04/96	SMSVOA396
one	ND	mg/Kg	0.0050	5.0	10/04/96	SMSVOA396
omethane	ND	mg/Kg	0.0050	5.0	10/04/96	SMSVOA396
Chloride	ND	mg/Kg	0.0050	5.0	10/04/96	SMSVOA396
Chloroethane	ND	mg/Kg	0.0050	5.0	10/04/96	SMSVOA396

D: 9610005-02B
ple ID: CA38/8-96-0930-0805

Collected: 09/30/96 08:05:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
VOLATILES/SW846 8260						
Acrolein	NT	mg/Kg	0.020			SMSVOA396
Methylene Chloride	ND	mg/Kg	0.010	5.0	10/04/96	SMSVOA396
1,1-Dichloroethene	ND	mg/Kg	0.0010	5.0	10/04/96	SMSVOA396
1,1-Dichloroethane	ND	mg/Kg	0.0010	5.0	10/04/96	SMSVOA396
Acrylonitrile	ND	mg/Kg	0.020	5.0	10/04/96	SMSVOA396
trans-1,2-Dichloroethene	ND	mg/Kg	0.0010	5.0	10/04/96	SMSVOA396
Chloroform	ND	mg/Kg	0.0010	5.0	10/04/96	SMSVOA396
1,2-Dichloroethane	ND	mg/Kg	0.0010	5.0	10/04/96	SMSVOA396
Vinyl Acetate	ND	mg/Kg	0.0050	5.0	10/04/96	SMSVOA396
cis-1,2-Dichloroethene	ND	mg/Kg	0.0010	5.0	10/04/96	SMSVOA396
2-Butanone (MEK)	ND	mg/Kg	0.0050	5.0	10/04/96	SMSVOA396
1,1,1-Trichloroethane	ND	mg/Kg	0.0010	5.0	10/04/96	SMSVOA396
Carbon Tetrachloride	ND	mg/Kg	0.0010	5.0	10/04/96	SMSVOA396
Bromodichloromethane	ND	mg/Kg	0.0010	5.0	10/04/96	SMSVOA396
1,2-Dichloropropane	ND	mg/Kg	0.0010	5.0	10/04/96	SMSVOA396
Dibromomethane	ND	mg/Kg	0.0010	5.0	10/04/96	SMSVOA396
trans-1,3-Dichloropropene	ND	mg/Kg	0.0010	5.0	10/04/96	SMSVOA396
Trichloroethene	ND	mg/Kg	0.0010	5.0	10/04/96	SMSVOA396
Chlorodibromomethane	ND	mg/Kg	0.0010	5.0	10/04/96	SMSVOA396
Ethyl Methacrylate	ND	mg/Kg	0.0050	5.0	10/04/96	SMSVOA396
2-Chloroethylvinyl Ether	ND	mg/Kg	0.0050	5.0	10/04/96	SMSVOA396
1,1,2-Trichloroethane	ND	mg/Kg	0.0010	5.0	10/04/96	SMSVOA396
Benzene	ND	mg/Kg	0.0010	5.0	10/04/96	SMSVOA396
cis-1,3-Dichloropropene	ND	mg/Kg	0.0010	5.0	10/04/96	SMSVOA396
Bromoform	ND	mg/Kg	0.0010	5.0	10/04/96	SMSVOA396
hyl-2-Pentanone (MIBK)	ND	mg/Kg	0.0050	5.0	10/04/96	SMSVOA396
hloroethene	ND	mg/Kg	0.0010	5.0	10/04/96	SMSVOA396
1,1,2,2-Tetrachloroethane	ND	mg/Kg	0.0010	5.0	10/04/96	SMSVOA396
1,2-Dibromoethane	ND	mg/Kg	0.0010	5.0	10/04/96	SMSVOA396
2-Hexanone (MBK)	ND	mg/Kg	0.0050	5.0	10/04/96	SMSVOA396
1,1,1,2-Tetrachloroethane	ND	mg/Kg	0.0010	5.0	10/04/96	SMSVOA396
Toluene	ND	mg/Kg	0.0010	5.0	10/04/96	SMSVOA396
Chlorobenzene	ND	mg/Kg	0.0010	5.0	10/04/96	SMSVOA396
Ethylbenzene	ND	mg/Kg	0.0010	5.0	10/04/96	SMSVOA396
1,4-Dichloro-2-Butene	ND	mg/Kg	0.010	5.0	10/04/96	SMSVOA396
Styrene	ND	mg/Kg	0.0010	5.0	10/04/96	SMSVOA396
P/M Xylene	ND	mg/Kg	0.0020	5.0	10/04/96	SMSVOA396
O-Xylene	ND	mg/Kg	0.0010	5.0	10/04/96	SMSVOA396
1,2,3-Trichloropropane	ND	mg/Kg	0.0010	5.0	10/04/96	SMSVOA396
Methyl-tert Butyl Ether	ND	mg/Kg	0.010	5.0	10/04/96	SMSVOA396
1,2-Dichlorobenzene	ND	mg/Kg	0.0010	5.0	10/04/96	SMSVOA396
1,3-Dichlorobenzene	ND	mg/Kg	0.0010	5.0	10/04/96	SMSVOA396
1,4-Dichlorobenzene	ND	mg/Kg	0.0010	5.0	10/04/96	SMSVOA396

Lab ID: 9610005-02C
Sample ID: CA38/8-96-0930-0805

Collected: 09/30/96 08:05:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
SVOA(SOX) Soil/SW846 8270B	10/07/96	N/A				
n-Nitrosodimethylamine	ND	mg/Kg	1.0	1.9	10/17/96	SMSSVOA124
Pyridine	ND	mg/Kg	10	1.9	10/17/96	SMSSVOA124
Aniline	ND	mg/Kg	10	1.9	10/17/96	SMSSVOA124
(2-Chloroethyl) Ether	ND	mg/Kg	0.50	1.9	10/17/96	SMSSVOA124
orophenol	ND	mg/Kg	0.50	1.9	10/17/96	SMSSVOA124
chlorobenzene	ND	mg/Kg	0.50	1.9	10/17/96	SMSSVOA124
ichlorobenzene	ND	mg/Kg	0.50	1.9	10/17/96	SMSSVOA124
Phenol	ND	mg/Kg	0.50	1.9	10/17/96	SMSSVOA124

ID: 9610005-02C
...ple ID: CA38/8-96-0930-0805

Collected: 09/30/96 08:05:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
SVOA(SOX) Soil/SW846 8270B						
1,3-Dichlorobenzene	ND	mg/Kg	0.50	1.9	10/17/96	SMSSVOA124
1,4-Dichlorobenzene	ND	mg/Kg	0.50	1.9	10/17/96	SMSSVOA124
Phenol	ND	mg/Kg	0.50	1.9	10/17/96	SMSSVOA124
1,2-Dichlorobenzene	ND	mg/Kg	0.50	1.9	10/17/96	SMSSVOA124
Benzyl Alcohol	ND	mg/Kg	10	1.9	10/17/96	SMSSVOA124
bis(2-Chloroisopropyl) Ether	ND	mg/Kg	1.0	1.9	10/17/96	SMSSVOA124
2-Methylphenol / O-Cresol	ND	mg/Kg	0.50	1.9	10/17/96	SMSSVOA124
Hexachloroethane	ND	mg/Kg	0.50	1.9	10/17/96	SMSSVOA124
n-Nitroso-di-n-propylamine	ND	mg/Kg	0.50	1.9	10/17/96	SMSSVOA124
Nitrobenzene	ND	mg/Kg	0.50	1.9	10/17/96	SMSSVOA124
3/4 Methylphenol / M/P-Cresol	ND	mg/Kg	0.50	1.9	10/17/96	SMSSVOA124
Isophorone	ND	mg/Kg	0.50	1.9	10/17/96	SMSSVOA124
2-Nitrophenol	ND	mg/Kg	1.0	1.9	10/17/96	SMSSVOA124
bis(2-Chloroethoxy) Methane	ND	mg/Kg	0.50	1.9	10/17/96	SMSSVOA124
2,4-Dimethylphenol	ND	mg/Kg	1.0	1.9	10/17/96	SMSSVOA124
1,2,4-Trichlorobenzene	ND	mg/Kg	0.50	1.9	10/17/96	SMSSVOA124
Naphthalene	ND	mg/Kg	0.50	1.9	10/17/96	SMSSVOA124
Benzoic Acid	ND	mg/Kg	10	1.9	10/17/96	SMSSVOA124
2,4-Dichlorophenol	ND	mg/Kg	1.0	1.9	10/17/96	SMSSVOA124
4-Chloroaniline	ND	mg/Kg	10	1.9	10/17/96	SMSSVOA124
Hexachlorobutadiene	ND	mg/Kg	0.50	1.9	10/17/96	SMSSVOA124
2-Methylnaphthalene	ND	mg/Kg	0.50	1.9	10/17/96	SMSSVOA124
4-Chloro-3-methylphenol	ND	mg/Kg	0.50	1.9	10/17/96	SMSSVOA124
Hexachlorocyclopentadiene	ND	mg/Kg	10	1.9	10/17/96	SMSSVOA124
' 6-Trichlorophenol	ND	mg/Kg	1.0	1.9	10/17/96	SMSSVOA124
Trichlorophenol	ND	mg/Kg	1.0	1.9	10/17/96	SMSSVOA124
ronaphthalene	ND	mg/Kg	0.50	1.9	10/17/96	SMSSVOA124
...roaniline	ND	mg/Kg	1.0	1.9	10/17/96	SMSSVOA124
Acenaphthylene	ND	mg/Kg	0.50	1.9	10/17/96	SMSSVOA124
Dimethylphthalate	ND	mg/Kg	0.50	1.9	10/17/96	SMSSVOA124
2,6-Dinitrotoluene	ND	mg/Kg	1.0	1.9	10/17/96	SMSSVOA124
Acenaphthene	ND	mg/Kg	0.50	1.9	10/17/96	SMSSVOA124
3-Nitroaniline	ND	mg/Kg	10	1.9	10/17/96	SMSSVOA124
Dibenzofuran	ND	mg/Kg	0.50	1.9	10/17/96	SMSSVOA124
2,4-Dinitrotoluene	ND	mg/Kg	2.5	1.9	10/17/96	SMSSVOA124
Fluorene	ND	mg/Kg	0.50	1.9	10/17/96	SMSSVOA124
4-Chlorophenyl-phenylether	ND	mg/Kg	0.50	1.9	10/17/96	SMSSVOA124
Diethylphthalate	ND	mg/Kg	0.50	1.9	10/17/96	SMSSVOA124
4-Nitrophenol	ND	mg/Kg	10	1.9	10/17/96	SMSSVOA124
4,6-Dinitro-2-methylphenol	ND	mg/Kg	10	1.9	10/17/96	SMSSVOA124
n-Nitrosodiphenylamine	ND	mg/Kg	0.50	1.9	10/17/96	SMSSVOA124
4-Nitroaniline	ND	mg/Kg	10	1.9	10/17/96	SMSSVOA124
4-Bromophenyl-phenylether	ND	mg/Kg	0.50	1.9	10/17/96	SMSSVOA124
Hexachlorobenzene	ND	mg/Kg	0.50	1.9	10/17/96	SMSSVOA124
Pentachlorophenol	ND	mg/Kg	10	1.9	10/17/96	SMSSVOA124
2,4-Dinitrophenol	ND	mg/Kg	10	1.9	10/17/96	SMSSVOA124
Phenanthrene	ND	mg/Kg	0.50	1.9	10/17/96	SMSSVOA124
Anthracene	ND	mg/Kg	0.50	1.9	10/17/96	SMSSVOA124
Di-n-butylphthalate	13B	mg/Kg	5.0	1.9	10/17/96	SMSSVOA124
Fluoranthene	ND	mg/Kg	0.50	1.9	10/17/96	SMSSVOA124
Pyrene	ND	mg/Kg	0.50	1.9	10/17/96	SMSSVOA124
Butylbenzylphthalate	ND	mg/Kg	0.50	1.9	10/17/96	SMSSVOA124
Benzo(a)anthracene	ND	mg/Kg	0.50	1.9	10/17/96	SMSSVOA124
Chrysene	ND	mg/Kg	0.50	1.9	10/17/96	SMSSVOA124
3,3'-Dichlorobenzidine	ND	mg/Kg	10	1.9	10/17/96	SMSSVOA124
bis(2-Ethylhexyl)phthalate	ND	mg/Kg	2.5	1.9	10/17/96	SMSSVOA124
Di-n-octyl phthalate	ND	mg/Kg	0.50	1.9	10/17/96	SMSSVOA124
Benzo(b)+(k)fluoranthene	ND	mg/Kg	0.50	1.9	10/17/96	SMSSVOA124
'ethylnaphthalene	ND	mg/Kg	1.0	1.9	10/17/96	SMSSVOA124
(a)pyrene	ND	mg/Kg	0.50	1.9	10/17/96	SMSSVOA124
(1,2,3-cd)pyrene	ND	mg/Kg	1.0	1.9	10/17/96	SMSSVOA124
...o(g,h,i)perylene	ND	mg/Kg	1.0	1.9	10/17/96	SMSSVOA124
2,3,4,6-Tetrachlorophenol	ND	mg/Kg	2.5	1.9	10/17/96	SMSSVOA124

D: 9610005-02C
ple ID: CA38/8-96-0930-0805

Collected: 09/30/96 08:05:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
SVOA(SOX) Soil/SW846 8270B						
Azobenzene	ND	mg/Kg	1.0	1.9	10/17/96	SMSSVOA124
Dibenz(a,h)anthracene	ND	mg/Kg	1.0	1.9	10/17/96	SMSSVOA124

Lab ID: 9610005-02D
Sample ID: CA38/8-96-0930-0805

Collected: 09/30/96 08:05:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
% SOLIDS(TCLP XT)EPA 160.3	100.00	% (Percent)				
(FAA) DIG SOIL/SW846 3050	10/02/96	N/A				
BARIUM (FAA)/SW846 7080						
Barium, Ba	54.4	mg/Kg	25	1.0	10/08/96	M961
CVAA Hg XT/SW846 7471	10/09/96	N/A				
MERCURY (CVAA)/SW846 7471						
Mercury	ND	mg/Kg	0.15	1.0	10/10/96	M9623
Metal(ICP) DIG /SW846 3050	10/02/96	N/A				
METALS-ICP/SW846 6010						
Silver, Ag	ND	mg/Kg	1.0	1.0	10/03/96	M961
Aluminum, Al	NT	mg/Kg	25			M961
rsenic, As	ND	mg/Kg	3.0	1.0	10/03/96	M961
n, Ba	NT	mg/Kg	0.50			M961
um, Be	NT	mg/Kg	0.50			M961
um, Ca	NT	mg/Kg	15			M961
Cadmium, Cd	ND	mg/Kg	0.20	1.0	10/03/96	M961
Cobalt, Co	NT	mg/Kg	0.50			M961
Chromium, Cr	8.0	mg/Kg	1.0	1.0	10/03/96	M961
Copper, Cu	NT	mg/Kg	0.50			M961
Iron, Fe	NT	mg/Kg	15			M961
Potassium, K	NT	mg/Kg	10			M961
Magnesium, Mg	NT	mg/Kg	10			M961
Manganese, Mn	NT	mg/Kg	0.25			M961
Sodium, Na	NT	mg/Kg	15			M961
Nickel, Ni	6.5	mg/Kg	2.0	1.0	10/03/96	M961
Lead, Pb	4.2	mg/Kg	2.0	1.0	10/03/96	M961
Antimony, Sb	NT	mg/Kg	1.5			M961
Selenium, Se	ND	mg/Kg	2.5	1.0	10/03/96	M961
Vanadium, V	NT	mg/Kg	0.15			M961
Zinc, Zn	NT	mg/Kg	5.0			M961
TCLP (ICP) DIG/1311/3005	10/09/96	N/A				
TCLP EXTRACTION/TCLP 1311	10/07/96	N/A				
TCLP METALS/1311/SW8466010						
Arsenic, As	ND	mg/L	0.40	1.0	10/10/96	M9619,M 9629
Barium, Ba	0.8	mg/L	0.50	1.0	10/10/96	M9619,M 9629
Cadmium, Cd	ND	mg/L	0.0050	1.0	10/10/96	M9619,M 9629
Chromium, Cr	ND	mg/L	0.020	1.0	10/10/96	M9619,M 9629
Lead, Pb	ND	mg/L	0.050	1.0	10/10/96	M9619,M 9629
Mercury, Hg	ND	mg/L	0.0020	1.0	10/11/96	M9619,M 9629
Selenium, Se	ND	mg/L	0.050	1.0	10/10/96	M9619,M 9629
Silver, Ag	ND	mg/L	0.040	1.0	10/10/96	M9619,M 9629
TCLP(CVAA)Hg XT/SW846 7471	10/11/96	N/A				

ID: 9610005-03A **Collected:** 09/30/96 10:00:00
ple ID: CA39/8-96-0930-1000 **Matrix:** SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
% SOLIDS(TCLP XT)EPA 160.3	100.00	% (Percent)				
(FAA) DIG SOIL/SW846 3050	10/02/96	N/A				
BARIUM (FAA)/SW846 7080						
Barium, Ba	108	mg/Kg	25	1.0	10/08/96	M961
CVAA Hg XT/SW846 7471	10/09/96	N/A				
MERCURY (CVAA)/SW846 7471						
Mercury	ND	mg/Kg	0.15	1.0	10/10/96	M9623
Metal(ICP) DIG /SW846 3050	10/02/96	N/A				
METALS-ICP/SW846 6010						
Silver, Ag	ND	mg/Kg	1.0	1.0	10/03/96	M961
Aluminum, Al	NT	mg/Kg	25			M961
Arsenic, As	ND	mg/Kg	3.0	1.0	10/03/96	M961
Barium, Ba	NT	mg/Kg	0.50			M961
Beryllium, Be	NT	mg/Kg	0.50			M961
Calcium, Ca	NT	mg/Kg	15			M961
Cadmium, Cd	ND	mg/Kg	0.20	1.0	10/03/96	M961
Cobalt, Co	NT	mg/Kg	0.50			M961
Chromium, Cr	11.2	mg/Kg	1.0	1.0	10/03/96	M961
Copper, Cu	NT	mg/Kg	0.50			M961
Iron, Fe	NT	mg/Kg	15			M961
Potassium, K	NT	mg/Kg	10			M961
Magnesium, Mg	NT	mg/Kg	10			M961
Manganese, Mn	NT	mg/Kg	0.25			M961
Sodium, Na	NT	mg/Kg	15			M961
Nickel, Ni	9.0	mg/Kg	2.0	1.0	10/03/96	M961
' ead, Pb	16.6	mg/Kg	2.0	1.0	10/03/96	M961
' mony, Sb	NT	mg/Kg	1.5			M961
um, Se	ND	mg/Kg	2.5	1.0	10/03/96	M961
dium, V	NT	mg/Kg	0.15			M961
Zinc, Zn	NT	mg/Kg	5.0			M961
TCLP (ICP) DIG/1311/3005	10/09/96	N/A				
TCLP EXTRACTION/TCLP 1311	10/07/96	N/A				
TCLP METALS/1311/SW8466010						
Arsenic, As	ND	mg/L	0.40	1.0	10/10/96	M9619,M9629
Barium, Ba	1.2	mg/L	0.50	1.0	10/10/96	M9619,M9629
Cadmium, Cd	ND	mg/L	0.0050	1.0	10/10/96	M9619,M9629
Chromium, Cr	ND	mg/L	0.020	1.0	10/10/96	M9619,M9629
Lead, Pb	ND	mg/L	0.050	1.0	10/10/96	M9619,M9629
Mercury, Hg	ND	mg/L	0.0020	1.0	10/11/96	M9619,M9629
Selenium, Se	ND	mg/L	0.050	1.0	10/10/96	M9619,M9629
Silver, Ag	ND	mg/L	0.040	1.0	10/10/96	M9619,M9629
TCLP(CVAA)Hg XT/SW846 7471	10/11/96	N/A				

Lab ID: 9610005-04A **Collected:** 09/30/96 08:02:00
Sample ID: CA38/4-96-0930-0802 **Matrix:** SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
BTEX/SW846 8020A						
Benzene	ND	mg/Kg	0.0010	5.0	10/08/96	SBTXME133
Toluene	ND	mg/Kg	0.0010	5.0	10/08/96	SBTXME133
Ethylbenzene	ND	mg/Kg	0.0010	5.0	10/08/96	SBTXME133
P-&m-Xylene	ND	mg/Kg	0.0010	5.0	10/08/96	SBTXME133
O-Xylene	ND	mg/Kg	0.0010	5.0	10/08/96	SBTXME133
Diesel Range OG Soil/M8015						
sel Range OG in Soil	ND	mg/Kg	50	1.0	10/10/96	SDRO002

ID: 9610005-06A
ple ID: CA39/5-96-0930-1332

Collected: 09/30/96 13:32:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
BTEX/SW846 8020A						
Benzene	ND	mg/Kg	0.0010	5.0	10/08/96	SBTXME133
Toluene	ND	mg/Kg	0.0010	5.0	10/08/96	SBTXME133
Ethylbenzene	ND	mg/Kg	0.0010	5.0	10/08/96	SBTXME133
P-&m-Xylene	ND	mg/Kg	0.0010	5.0	10/08/96	SBTXME133
O-Xylene	ND	mg/Kg	0.0010	5.0	10/08/96	SBTXME133
Diesel Range OG Soil/M8015						
Diesel Range OG in Soil	ND	mg/Kg	50	1.0	10/10/96	SDRO002

Lab ID: 9610005-06B
Sample ID: CA39/5-96-0930-1332

Collected: 09/30/96 13:32:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
SAMPLE HOLD	N/A	N/A				

Fred L. Shore, Ph.D.
VP of Laboratory Operations

WORKORDER COMMENTS

DATE : 10/23/96
WORKORDER:

DEFINITIONS/DATA QUALIFIERS

The following are definitions, abbreviations, and data qualifiers which may have been utilized in your report:

ND = Analyte "not detected" in analysis at the sample specific detection limit.
D_F = Sample "dilution factor"
NT = Analyte "not tested" per client request.
B = Analyte was also detected in laboratory method QC blank.
E = Analyte concentration (result) is an estimated value or exceeds analysis calibration range.
LIMIT = The minimum amount of the analyte that AAL can detect utilizing the specified analysis.

Please Note: Multiply the "Limit" value (AAL's Detection Limit) by Dilution Factor (D_F) to obtain the sample specific Detection Limit.

*** Analytical results reported pertain only to the samples provided ***
*** for analysis and may not represent actual field conditions. ***
*** ***
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REPORT COMMENTS

SAIGAI ANALYTICAL LABORATORIES

Chain of Custody Record

Lab job no.: 10605 Date 10/1/96

Page 1 of 1

7300 JEFFERSON, N.E.
ALBUQUERQUE, NEW MEXICO
(505) 345-8964

3332 WEDGEWOOD
EL PASO, TEXAS 79925
(915) 593-6000

1910 N. BIG SPRING
MIDLAND, TEXAS 79705
(915) 570-1116

MELQUIADES ALANIS
6411 LOCAL UNO
CIUDAD JUAREZ, CHIHUAHUA MEXICO 32320

Client Chevron / LCPI-2

Address 1712 Spring St Portales

City / State / Zip Clovis NM 88101

Project Name / Number DACH 47-95-D-0035

Contract / Purchase Order / Quote Dan Moore

Project Manager / Contact Mike Lanckert

Telephone No. 505-763-1910

Fax No. 505-769-0780

Samplers: (Signature)

Analysis Required

AAL Fraction Number	Field Sample Number / Location	Date	Time	Sample Type	Type / Size of Container	Preservation Temp.	Preservation Chemical	No. of Containers	TAH 8015 (MOD)	TPH 418.1	SW 8260	SW 8270 Metals 6010 & 7470 Using 1311 Extraction	BTEX 8020					Remarks
1A-C D 9'	CA39/7-96-0930-1334	9/30/96	1334	soil	1-4oz + 3 4oz glass	ICE		4	X	X	X	X						Confirmatory
2A-D	CA39/8-96-0930-0805	9/30/96	8:05	soil	1, 4oz + 3, 4oz glass	ICE		4	X	X	X	X						confirmatory
3A-D	CA39/8-96-0930-1000	9/30/96	10:00	soil	1 4oz glass	ICE		1				X						confirmatory excavated material
4A,B D 8'	CA38/4-96-0930-0802	9/30/96	8:02	soil	1 4oz glass			1	X				X					correlation Highest
5A,B D 9'	CA38/5-96-0930-0803	9/30/96	8:03	soil	1 4oz glass			1	X				X					correlation 1 of 10
6A,B D 9'	CA39/5-96-0930-1332	9/30/96	13:32	soil	1 4oz glass			1	X				X					correlation

Relinquished by:	Date	Received by:	Relinquished by:	Date	Received by:
Signature	9/30/96	Signature	Signature	10/1/96	Signature
Printed Troy Moulder	Time	Printed S.N. Barnes Co.	Printed	Time 955am	Printed
Company Chevy		Company THRIFTY Carriers	Company		Company AAL
Reason shipment		Reason Shipment	Reason Transport		Reason

Method of Shipment: Bus

Shipment No.

Special Instructions:

Comments: 6.0°C

After analysis, samples are to be:

- ☐ Disposed of (additional fee)
- ☐ Stored (30 days max)
- ☐ Stored over 30 days (additional fee)
- ☐ Returned to customer

COURIER

ASSAIGAI
ANALYTICAL
LABORATORIES, INC.
7300 Jefferson, N.E. • Albuquerque, New Mexico 87109 • (505) 345-8964 • FAX (505) 345-7259
3332 Wedgewood, E-5 • El Paso, Texas 79925 • (915) 593-6000 • FAX (915) 593-7820

Report Generated:
November 6, 1996 16:50

CERTIFICATE OF ANALYSIS
RESULTS BY SAMPLE

SENT TO: CHEYENNE BUILDING CONTRACTORS
P.O. BOX 418
CLOVIS, NM 88101

ATTN: MIKE LANDGRAF

WORKORDER # : 9610156
WORK ID : DACA47-95-D-0035
CLIENT CODE : CHE10
DATE RECEIVED : 10/18/96

Lab ID: 9610156-01A
Sample ID: CA92/7-96-1015-1430
Collected: 10/15/96 14:30:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
Diesel Range OG Soil/M8015						
Diesel Range OG in Soil	ND	mg/Kg	50	1.0	10/23/96	SDRO003

Lab ID: 9610156-01B
ıple ID: CA92/7-96-1015-1430
Collected: 10/15/96 14:30:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
VOLATILES/SW846 8260						
Dichlorodifluoromethane	ND	mg/Kg	0.010	5.0	10/22/96	SMSVOA399
Chloromethane	ND	mg/Kg	0.0050	5.0	10/22/96	SMSVOA399
Iodomethane	ND	mg/Kg	0.0050	5.0	10/22/96	SMSVOA399
Acetone	ND	mg/Kg	0.0050	5.0	10/22/96	SMSVOA399
Bromomethane	ND	mg/Kg	0.0050	5.0	10/22/96	SMSVOA399
Vinyl Chloride	ND	mg/Kg	0.0050	5.0	10/22/96	SMSVOA399
Chloroethane	ND	mg/Kg	0.0050	5.0	10/22/96	SMSVOA399
Trichlorofluoromethane	ND	mg/Kg	0.0050	5.0	10/22/96	SMSVOA399
Freon 113	ND	mg/Kg	0.0050	5.0	10/22/96	SMSVOA399
Carbon Disulfide	ND	mg/Kg	0.0050	5.0	10/22/96	SMSVOA399
Acrolein	ND	mg/Kg	0.020	5.0	10/22/96	SMSVOA399
Methylene Chloride	ND	mg/Kg	0.010	5.0	10/22/96	SMSVOA399
1,1-Dichloroethene	ND	mg/Kg	0.0010	5.0	10/22/96	SMSVOA399
1,1-Dichloroethane	ND	mg/Kg	0.0010	5.0	10/22/96	SMSVOA399
Acrylonitrile	ND	mg/Kg	0.020	5.0	10/22/96	SMSVOA399
trans-1,2-Dichloroethene	ND	mg/Kg	0.0010	5.0	10/22/96	SMSVOA399
Chloroform	ND	mg/Kg	0.0010	5.0	10/22/96	SMSVOA399
1,2-Dichloroethane	ND	mg/Kg	0.0010	5.0	10/22/96	SMSVOA399
Vinyl Acetate	ND	mg/Kg	0.0050	5.0	10/22/96	SMSVOA399
cis-1,2-Dichloroethene	ND	mg/Kg	0.0010	5.0	10/22/96	SMSVOA399
2-Butanone (MEK)	ND	mg/Kg	0.0050	5.0	10/22/96	SMSVOA399
1,1,1-Trichloroethane	ND	mg/Kg	0.0010	5.0	10/22/96	SMSVOA399
Carbon Tetrachloride	ND	mg/Kg	0.0010	5.0	10/22/96	SMSVOA399
Bromodichloromethane	ND	mg/Kg	0.0010	5.0	10/22/96	SMSVOA399
1,2-Dichloropropane	ND	mg/Kg	0.0010	5.0	10/22/96	SMSVOA399
Dibromomethane	ND	mg/Kg	0.0010	5.0	10/22/96	SMSVOA399
ıs-1,3-Dichloropropene	ND	mg/Kg	0.0010	5.0	10/22/96	SMSVOA399
.hloroethene	ND	mg/Kg	0.0010	5.0	10/22/96	SMSVOA399
rodibromomethane	ND	mg/Kg	0.0010	5.0	10/22/96	SMSVOA399
ı Methacrylate	ND	mg/Kg	0.0050	5.0	10/22/96	SMSVOA399
2-Chloroethylvinyl Ether	ND	mg/Kg	0.0050	5.0	10/22/96	SMSVOA399

Member: American Council of Independent Laboratories, Inc.

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THIS REPORT MAY NOT BE USED IN ANY MANNER BY THE CLIENT OR ANY OTHER THIRD PARTY TO CLAIM
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ID: 9610156-01B
Sample ID: CA92/7-96-1015-1430

Collected: 10/15/96 14:30:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
VOLATILES/SW846 8260						
1,1,2-Trichloroethane	ND	mg/Kg	0.0010	5.0	10/22/96	SMSVOA399
Benzene	ND	mg/Kg	0.0010	5.0	10/22/96	SMSVOA399
cis-1,3-Dichloropropene	ND	mg/Kg	0.0010	5.0	10/22/96	SMSVOA399
Bromoform	ND	mg/Kg	0.0010	5.0	10/22/96	SMSVOA399
4-Methyl-2-Pentanone (MIBK)	ND	mg/Kg	0.0050	5.0	10/22/96	SMSVOA399
Tetrachloroethene	ND	mg/Kg	0.0010	5.0	10/22/96	SMSVOA399
1,1,2,2-Tetrachloroethane	ND	mg/Kg	0.0010	5.0	10/22/96	SMSVOA399
1,2-Dibromoethane	ND	mg/Kg	0.0010	5.0	10/22/96	SMSVOA399
2-Hexanone (MBK)	ND	mg/Kg	0.0050	5.0	10/22/96	SMSVOA399
1,1,1,2-Tetrachloroethane	ND	mg/Kg	0.0010	5.0	10/22/96	SMSVOA399
Toluene	ND	mg/Kg	0.0010	5.0	10/22/96	SMSVOA399
Chlorobenzene	ND	mg/Kg	0.0010	5.0	10/22/96	SMSVOA399
Ethylbenzene	ND	mg/Kg	0.0010	5.0	10/22/96	SMSVOA399
1,4-Dichloro-2-Butene	ND	mg/Kg	0.010	5.0	10/22/96	SMSVOA399
Styrene	ND	mg/Kg	0.0010	5.0	10/22/96	SMSVOA399
P/M Xylene	ND	mg/Kg	0.0020	5.0	10/22/96	SMSVOA399
O-Xylene	ND	mg/Kg	0.0010	5.0	10/22/96	SMSVOA399
1,2,3-Trichloropropane	ND	mg/Kg	0.0010	5.0	10/22/96	SMSVOA399
Methyl-tert Butyl Ether	ND	mg/Kg	0.010	5.0	10/22/96	SMSVOA399
1,2-Dichlorobenzene	ND	mg/Kg	0.0010	5.0	10/22/96	SMSVOA399
1,3-Dichlorobenzene	ND	mg/Kg	0.0010	5.0	10/22/96	SMSVOA399
1,4-Dichlorobenzene	ND	mg/Kg	0.0010	5.0	10/22/96	SMSVOA399

ID: 9610156-01C
Sample ID: CA92/7-96-1015-1430

Collected: 10/15/96 14:30:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
SVOA(SOX) Soil/SW846 8270B	10/22/96	N/A				
n-Nitrosodimethylamine	ND	mg/Kg	1.0	1.6	11/01/96	SMSSVOA127
Pyridine	ND	mg/Kg	10	1.6	11/01/96	SMSSVOA127
Aniline	ND	mg/Kg	10	1.6	11/01/96	SMSSVOA127
bis(2-Chloroethyl) Ether	ND	mg/Kg	0.50	1.6	11/01/96	SMSSVOA127
2-Chlorophenol	ND	mg/Kg	0.50	1.6	11/01/96	SMSSVOA127
1,3-Dichlorobenzene	ND	mg/Kg	0.50	1.6	11/01/96	SMSSVOA127
1,4-Dichlorobenzene	ND	mg/Kg	0.50	1.6	11/01/96	SMSSVOA127
Phenol	ND	mg/Kg	0.50	1.6	11/01/96	SMSSVOA127
1,2-Dichlorobenzene	ND	mg/Kg	0.50	1.6	11/01/96	SMSSVOA127
Benzyl Alcohol	ND	mg/Kg	10	1.6	11/01/96	SMSSVOA127
bis(2-Chloroisopropyl) Ether	ND	mg/Kg	1.0	1.6	11/01/96	SMSSVOA127
2-Methylphenol / O-Cresol	ND	mg/Kg	0.50	1.6	11/01/96	SMSSVOA127
Hexachloroethane	ND	mg/Kg	0.50	1.6	11/01/96	SMSSVOA127
n-Nitroso-di-n-propylamine	ND	mg/Kg	0.50	1.6	11/01/96	SMSSVOA127
Nitrobenzene	ND	mg/Kg	0.50	1.6	11/01/96	SMSSVOA127
3/4 Methylphenol / M/P-Cresol	ND	mg/Kg	0.50	1.6	11/01/96	SMSSVOA127
Isophorone	ND	mg/Kg	0.50	1.6	11/01/96	SMSSVOA127
2-Nitrophenol	ND	mg/Kg	1.0	1.6	11/01/96	SMSSVOA127
bis(2-Chloroethoxy) Methane	ND	mg/Kg	0.50	1.6	11/01/96	SMSSVOA127
2,4-Dimethylphenol	ND	mg/Kg	1.0	1.6	11/01/96	SMSSVOA127
1,2,4-Trichlorobenzene	ND	mg/Kg	0.50	1.6	11/01/96	SMSSVOA127
Naphthalene	ND	mg/Kg	0.50	1.6	11/01/96	SMSSVOA127
Benzoic Acid	ND	mg/Kg	10	1.6	11/01/96	SMSSVOA127
2,4-Dichlorophenol	ND	mg/Kg	1.0	1.6	11/01/96	SMSSVOA127
Chloroaniline	ND	mg/Kg	10	1.6	11/01/96	SMSSVOA127
xachlorobutadiene	ND	mg/Kg	0.50	1.6	11/01/96	SMSSVOA127
ethylnaphthalene	ND	mg/Kg	0.50	1.6	11/01/96	SMSSVOA127
4-Chloro-3-methylphenol	ND	mg/Kg	0.50	1.6	11/01/96	SMSSVOA127
Hexachlorocyclopentadiene	ND	mg/Kg	10	1.6	11/01/96	SMSSVOA127

D: 9610156-01C
ample ID: CA92/7-96-1015-1430

Collected: 10/15/96 14:30:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
SVOA(SOX) Soil/SW846 8270B						
2,4,6-Trichlorophenol	ND	mg/Kg	1.0	1.6	11/01/96	SMSSVOA127
2,4,5-Trichlorophenol	ND	mg/Kg	1.0	1.6	11/01/96	SMSSVOA127
2-Chloronaphthalene	ND	mg/Kg	0.50	1.6	11/01/96	SMSSVOA127
2-Nitroaniline	ND	mg/Kg	1.0	1.6	11/01/96	SMSSVOA127
Acenaphthylene	ND	mg/Kg	0.50	1.6	11/01/96	SMSSVOA127
Dimethylphthalate	ND	mg/Kg	0.50	1.6	11/01/96	SMSSVOA127
2,6-Dinitrotoluene	ND	mg/Kg	1.0	1.6	11/01/96	SMSSVOA127
Acenaphthene	ND	mg/Kg	0.50	1.6	11/01/96	SMSSVOA127
3-Nitroaniline	ND	mg/Kg	10	1.6	11/01/96	SMSSVOA127
Dibenzofuran	ND	mg/Kg	0.50	1.6	11/01/96	SMSSVOA127
2,4-Dinitrotoluene	ND	mg/Kg	2.5	1.6	11/01/96	SMSSVOA127
Fluorene	ND	mg/Kg	0.50	1.6	11/01/96	SMSSVOA127
4-Chlorophenyl-phenylether	ND	mg/Kg	0.50	1.6	11/01/96	SMSSVOA127
Diethylphthalate	ND	mg/Kg	0.50	1.6	11/01/96	SMSSVOA127
4-Nitrophenol	ND	mg/Kg	10	1.6	11/01/96	SMSSVOA127
4,6-Dinitro-2-methylphenol	ND	mg/Kg	10	1.6	11/01/96	SMSSVOA127
n-Nitrosodiphenylamine	ND	mg/Kg	0.50	1.6	11/01/96	SMSSVOA127
4-Nitroaniline	ND	mg/Kg	10	1.6	11/01/96	SMSSVOA127
4-Bromophenyl-phenylether	ND	mg/Kg	0.50	1.6	11/01/96	SMSSVOA127
Hexachlorobenzene	ND	mg/Kg	0.50	1.6	11/01/96	SMSSVOA127
Pentachlorophenol	ND	mg/Kg	10	1.6	11/01/96	SMSSVOA127
2,4-Dinitrophenol	ND	mg/Kg	10	1.6	11/01/96	SMSSVOA127
Phenanthrene	ND	mg/Kg	0.50	1.6	11/01/96	SMSSVOA127
Anthracene	ND	mg/Kg	0.50	1.6	11/01/96	SMSSVOA127
i-n-butylphthalate	25B	mg/Kg	5.0	1.6	11/01/96	SMSSVOA127
ranthene	ND	mg/Kg	0.50	1.6	11/01/96	SMSSVOA127
ne	ND	mg/Kg	0.50	1.6	11/01/96	SMSSVOA127
Butylbenzylphthalate	ND	mg/Kg	0.50	1.6	11/01/96	SMSSVOA127
Benzo(a)anthracene	ND	mg/Kg	0.50	1.6	11/01/96	SMSSVOA127
Chrysene	ND	mg/Kg	0.50	1.6	11/01/96	SMSSVOA127
3,3'-Dichlorobenzidine	ND	mg/Kg	10	1.6	11/01/96	SMSSVOA127
bis(2-Ethylhexyl)phthalate	ND	mg/Kg	2.5	1.6	11/01/96	SMSSVOA127
Di-n-octyl phthalate	ND	mg/Kg	0.50	1.6	11/01/96	SMSSVOA127
Benzo(b)+(k)fluoranthene	ND	mg/Kg	0.50	1.6	11/01/96	SMSSVOA127
1-Methylnaphthalene	ND	mg/Kg	1.0	1.6	11/01/96	SMSSVOA127
Benzo(a)pyrene	ND	mg/Kg	0.50	1.6	11/01/96	SMSSVOA127
Indeno(1,2,3-cd)pyrene	ND	mg/Kg	1.0	1.6	11/01/96	SMSSVOA127
Benzo(g,h,i)perylene	ND	mg/Kg	1.0	1.6	11/01/96	SMSSVOA127
2,3,4,6-Tetrachlorophenol	ND	mg/Kg	2.5	1.6	11/01/96	SMSSVOA127
Azobenzene	ND	mg/Kg	1.0	1.6	11/01/96	SMSSVOA127
Dibenz(a,h)anthracene	ND	mg/Kg	1.0	1.6	11/01/96	SMSSVOA127

Lab ID: 9610156-01D
Sample ID: CA92/7-96-1015-1430

Collected: 10/15/96 14:30:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
% SOLIDS(TCLP XT)EPA 160.3	100.00	% (Percent)				
(FAA) DIG SOIL/SW846 3050	10/24/96	N/A				
BARIUM (FAA)/SW846 7080						
Barium, Ba	680	mg/Kg	25	3.0	10/28/96	M9668
CVAA Hg XT/SW846 7471	10/23/96	N/A				
MERCURY (CVAA)/SW846 7471						
ercury	ND	mg/Kg	0.15	1.0	10/24/96	M9664
l(ICP) DIG /SW846 3050	10/26/96	N/A				
ALS-ICP/SW846 6010						
Silver, Ag	ND	mg/Kg	1.0	1.0	10/24/96	M9668
Aluminum, Al	NT	mg/Kg	25			M9668

ID: 9610156-01D **Collected:** 10/15/96 14:30:00
Sample ID: CA92/7-96-1015-1430 **Matrix:** SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
METALS-ICP/SW846 6010						
Arsenic, As	ND	mg/Kg	3.0	1.0	10/26/96	M9668
Barium, Ba	NT	mg/Kg	0.50			M9668
Beryllium, Be	NT	mg/Kg	0.50			M9668
Calcium, Ca	NT	mg/Kg	15			M9668
Cadmium, Cd	ND	mg/Kg	0.20	1.0	10/26/96	M9668
Cobalt, Co	NT	mg/Kg	0.50			M9668
Chromium, Cr	5.9	mg/Kg	1.0	1.0	10/26/96	M9668
Copper, Cu	NT	mg/Kg	0.50			M9668
Iron, Fe	NT	mg/Kg	15			M9668
Potassium, K	NT	mg/Kg	10			M9668
Magnesium, Mg	NT	mg/Kg	10			M9668
Manganese, Mn	NT	mg/Kg	0.25			M9668
Sodium, Na	NT	mg/Kg	15			M9668
Nickel, Ni	6.8	mg/Kg	2.0	1.0	10/26/96	M9668
Lead, Pb	5.0	mg/Kg	2.0	1.0	10/26/96	M9668
Antimony, Sb	NT	mg/Kg	1.5			M9668
Selenium, Se	ND	mg/Kg	2.5	1.0	10/26/96	M9668
Vanadium, V	NT	mg/Kg	0.15			M9668
Zinc, Zn	NT	mg/Kg	5.0			M9668
TCLP (ICP) DIG/1311/3005	10/25/96	N/A				
TCLP BARIUM(FAA)/1311/7080						
Barium, Ba	1.6	mg/L	0.50	1.0	10/28/96	M9670
TCLP EXTRACTION/TCLP 1311	10/21/96	N/A				
TCLP METALS/1311/SW8466010						
rsenic, As	ND	mg/L	0.40	1.0	10/26/96	M9670,M9687
ium, Ba	NT	mg/L	0.50			M9670,M9687
nium, Cd	ND	mg/L	0.0050	1.0	10/26/96	M9670,M9687
Chromium, Cr	ND	mg/L	0.020	1.0	10/26/96	M9670,M9687
Lead, Pb	ND	mg/L	0.050	1.0	10/26/96	M9670,M9687
Mercury, Hg	ND	mg/L	0.0020	1.0	10/31/96	M9670,M9687
Selenium, Se	ND	mg/L	0.050	1.0	10/26/96	M9670,M9687
Silver, Ag	ND	mg/L	0.040	1.0	10/26/96	M9670,M9687
TCLP(CVAA)Hg XT/SW846 7471	10/29/96	N/A				

Lab ID: 9610156-02A **Collected:** 10/15/96 14:46:00
Sample ID: CA92/15-96-1016-1446 **Matrix:** SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
Diesel Range OG Soil/M8015						
Diesel Range OG in Soil	ND	mg/Kg	50	1.0	10/23/96	SDRO003

Lab ID: 9610156-02B **Collected:** 10/15/96 14:46:00
Sample ID: CA92/15-96-1016-1446 **Matrix:** SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
VOLATILES/SW846 8260						
ichlorodifluoromethane	ND	mg/Kg	0.010	5.0	10/22/96	SMSVOA399
hloromethane	ND	mg/Kg	0.0050	5.0	10/22/96	SMSVOA399
methane	ND	mg/Kg	0.0050	5.0	10/22/96	SMSVOA399
etone	ND	mg/Kg	0.0050	5.0	10/22/96	SMSVOA399
Bromomethane	ND	mg/Kg	0.0050	5.0	10/22/96	SMSVOA399

ID: 9610156-02B
Sample ID: CA92/15-96-1016-1446

Collected: 10/15/96 14:46:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
VOLATILES/SW846 8260						
Vinyl Chloride	ND	mg/Kg	0.0050	5.0	10/22/96	SMSVOA399
Chloroethane	ND	mg/Kg	0.0050	5.0	10/22/96	SMSVOA399
Trichlorofluoromethane	ND	mg/Kg	0.0050	5.0	10/22/96	SMSVOA399
Freon 113	ND	mg/Kg	0.0050	5.0	10/22/96	SMSVOA399
Carbon Disulfide	ND	mg/Kg	0.0050	5.0	10/22/96	SMSVOA399
Acrolein	ND	mg/Kg	0.020	5.0	10/22/96	SMSVOA399
Methylene Chloride	ND	mg/Kg	0.010	5.0	10/22/96	SMSVOA399
1,1-Dichloroethene	ND	mg/Kg	0.0010	5.0	10/22/96	SMSVOA399
1,1-Dichloroethane	ND	mg/Kg	0.0010	5.0	10/22/96	SMSVOA399
Acrylonitrile	ND	mg/Kg	0.020	5.0	10/22/96	SMSVOA399
trans-1,2-Dichloroethene	ND	mg/Kg	0.0010	5.0	10/22/96	SMSVOA399
Chloroform	ND	mg/Kg	0.0010	5.0	10/22/96	SMSVOA399
1,2-Dichloroethane	ND	mg/Kg	0.0010	5.0	10/22/96	SMSVOA399
Vinyl Acetate	ND	mg/Kg	0.0050	5.0	10/22/96	SMSVOA399
cis-1,2-Dichloroethene	ND	mg/Kg	0.0010	5.0	10/22/96	SMSVOA399
2-Butanone (MEK)	ND	mg/Kg	0.0050	5.0	10/22/96	SMSVOA399
1,1,1-Trichloroethane	ND	mg/Kg	0.0010	5.0	10/22/96	SMSVOA399
Carbon Tetrachloride	ND	mg/Kg	0.0010	5.0	10/22/96	SMSVOA399
Bromodichloromethane	ND	mg/Kg	0.0010	5.0	10/22/96	SMSVOA399
1,2-Dichloropropane	ND	mg/Kg	0.0010	5.0	10/22/96	SMSVOA399
Dibromomethane	ND	mg/Kg	0.0010	5.0	10/22/96	SMSVOA399
trans-1,3-Dichloropropene	ND	mg/Kg	0.0010	5.0	10/22/96	SMSVOA399
Trichloroethene	ND	mg/Kg	0.0010	5.0	10/22/96	SMSVOA399
Chlorodibromomethane	ND	mg/Kg	0.0010	5.0	10/22/96	SMSVOA399
thyl Methacrylate	ND	mg/Kg	0.0050	5.0	10/22/96	SMSVOA399
hloroethylvinyl Ether	ND	mg/Kg	0.0050	5.0	10/22/96	SMSVOA399
,2-Trichloroethane	ND	mg/Kg	0.0010	5.0	10/22/96	SMSVOA399
Benzene	ND	mg/Kg	0.0010	5.0	10/22/96	SMSVOA399
cis-1,3-Dichloropropene	ND	mg/Kg	0.0010	5.0	10/22/96	SMSVOA399
Bromoform	ND	mg/Kg	0.0010	5.0	10/22/96	SMSVOA399
4-Methyl-2-Pentanone (MIBK)	ND	mg/Kg	0.0050	5.0	10/22/96	SMSVOA399
Tetrachloroethene	ND	mg/Kg	0.0010	5.0	10/22/96	SMSVOA399
1,1,2,2-Tetrachloroethane	ND	mg/Kg	0.0010	5.0	10/22/96	SMSVOA399
1,2-Dibromoethane	ND	mg/Kg	0.0010	5.0	10/22/96	SMSVOA399
2-Hexanone (MBK)	ND	mg/Kg	0.0050	5.0	10/22/96	SMSVOA399
1,1,1,2-Tetrachloroethane	ND	mg/Kg	0.0010	5.0	10/22/96	SMSVOA399
Toluene	ND	mg/Kg	0.0010	5.0	10/22/96	SMSVOA399
Chlorobenzene	ND	mg/Kg	0.0010	5.0	10/22/96	SMSVOA399
Ethylbenzene	ND	mg/Kg	0.0010	5.0	10/22/96	SMSVOA399
1,4-Dichloro-2-Butene	ND	mg/Kg	0.010	5.0	10/22/96	SMSVOA399
Styrene	ND	mg/Kg	0.0010	5.0	10/22/96	SMSVOA399
P/M Xylene	ND	mg/Kg	0.0020	5.0	10/22/96	SMSVOA399
O-Xylene	ND	mg/Kg	0.0010	5.0	10/22/96	SMSVOA399
1,2,3-Trichloropropane	ND	mg/Kg	0.0010	5.0	10/22/96	SMSVOA399
Methyl-tert Butyl Ether	ND	mg/Kg	0.010	5.0	10/22/96	SMSVOA399
1,2-Dichlorobenzene	ND	mg/Kg	0.0010	5.0	10/22/96	SMSVOA399
1,3-Dichlorobenzene	ND	mg/Kg	0.0010	5.0	10/22/96	SMSVOA399
1,4-Dichlorobenzene	ND	mg/Kg	0.0010	5.0	10/22/96	SMSVOA399

Lab ID: 9610156-02C
Sample ID: CA92/15-96-1016-1446

Collected: 10/15/96 14:46:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
A(SOX) Soil/SW846 8270B	10/22/96	N/A				
itrosodimethylamine	ND	mg/Kg	1.0	1.7	11/01/96	SMSSVOA127
Pyridine	ND	mg/Kg	10	1.7	11/01/96	SMSSVOA127
Aniline	ND	mg/Kg	10	1.7	11/01/96	SMSSVOA127

D: 9610156-02C **Collected:** 10/15/96 14:46:00
ample ID: CA92/15-96-1016-1446 **Matrix:** SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
SVOA(SOX) Soil/SW846 8270B						
bis(2-Chloroethyl) Ether	ND	mg/Kg	0.50	1.7	11/01/96	SMSSVOA127
2-Chlorophenol	ND	mg/Kg	0.50	1.7	11/01/96	SMSSVOA127
1,3-Dichlorobenzene	ND	mg/Kg	0.50	1.7	11/01/96	SMSSVOA127
1,4-Dichlorobenzene	ND	mg/Kg	0.50	1.7	11/01/96	SMSSVOA127
Phenol	ND	mg/Kg	0.50	1.7	11/01/96	SMSSVOA127
1,2-Dichlorobenzene	ND	mg/Kg	0.50	1.7	11/01/96	SMSSVOA127
Benzyl Alcohol	ND	mg/Kg	10	1.7	11/01/96	SMSSVOA127
bis(2-Chloroisopropyl) Ether	ND	mg/Kg	1.0	1.7	11/01/96	SMSSVOA127
2-Methylphenol / O-Cresol	ND	mg/Kg	0.50	1.7	11/01/96	SMSSVOA127
Hexachloroethane	ND	mg/Kg	0.50	1.7	11/01/96	SMSSVOA127
n-Nitroso-di-n-propylamine	ND	mg/Kg	0.50	1.7	11/01/96	SMSSVOA127
Nitrobenzene	ND	mg/Kg	0.50	1.7	11/01/96	SMSSVOA127
3/4 Methylphenol / M/P-Cresol	ND	mg/Kg	0.50	1.7	11/01/96	SMSSVOA127
Isophorone	ND	mg/Kg	0.50	1.7	11/01/96	SMSSVOA127
2-Nitrophenol	ND	mg/Kg	1.0	1.7	11/01/96	SMSSVOA127
bis(2-Chloroethoxy) Methane	ND	mg/Kg	0.50	1.7	11/01/96	SMSSVOA127
2,4-Dimethylphenol	ND	mg/Kg	1.0	1.7	11/01/96	SMSSVOA127
1,2,4-Trichlorobenzene	ND	mg/Kg	0.50	1.7	11/01/96	SMSSVOA127
Naphthalene	ND	mg/Kg	0.50	1.7	11/01/96	SMSSVOA127
Benzoic Acid	ND	mg/Kg	10	1.7	11/01/96	SMSSVOA127
2,4-Dichlorophenol	ND	mg/Kg	1.0	1.7	11/01/96	SMSSVOA127
4-Chloroaniline	ND	mg/Kg	10	1.7	11/01/96	SMSSVOA127
Hexachlorobutadiene	ND	mg/Kg	0.50	1.7	11/01/96	SMSSVOA127
?-Methylnaphthalene	ND	mg/Kg	0.50	1.7	11/01/96	SMSSVOA127
Chloro-3-methylphenol	ND	mg/Kg	0.50	1.7	11/01/96	SMSSVOA127
'chlorocyclopentadiene	ND	mg/Kg	10	1.7	11/01/96	SMSSVOA127
,-Trichlorophenol	ND	mg/Kg	1.0	1.7	11/01/96	SMSSVOA127
2,4,5-Trichlorophenol	ND	mg/Kg	1.0	1.7	11/01/96	SMSSVOA127
2-Chloronaphthalene	ND	mg/Kg	0.50	1.7	11/01/96	SMSSVOA127
2-Nitroaniline	ND	mg/Kg	1.0	1.7	11/01/96	SMSSVOA127
Acenaphthylene	ND	mg/Kg	0.50	1.7	11/01/96	SMSSVOA127
Dimethylphthalate	ND	mg/Kg	0.50	1.7	11/01/96	SMSSVOA127
2,6-Dinitrotoluene	ND	mg/Kg	1.0	1.7	11/01/96	SMSSVOA127
Acenaphthene	ND	mg/Kg	0.50	1.7	11/01/96	SMSSVOA127
3-Nitroaniline	ND	mg/Kg	10	1.7	11/01/96	SMSSVOA127
Dibenzofuran	ND	mg/Kg	0.50	1.7	11/01/96	SMSSVOA127
2,4-Dinitrotoluene	ND	mg/Kg	2.5	1.7	11/01/96	SMSSVOA127
Fluorene	ND	mg/Kg	0.50	1.7	11/01/96	SMSSVOA127
4-Chlorophenyl-phenylether	ND	mg/Kg	0.50	1.7	11/01/96	SMSSVOA127
Diethylphthalate	ND	mg/Kg	0.50	1.7	11/01/96	SMSSVOA127
4-Nitrophenol	ND	mg/Kg	10	1.7	11/01/96	SMSSVOA127
4,6-Dinitro-2-methylphenol	ND	mg/Kg	10	1.7	11/01/96	SMSSVOA127
n-Nitrosodiphenylamine	ND	mg/Kg	0.50	1.7	11/01/96	SMSSVOA127
4-Nitroaniline	ND	mg/Kg	10	1.7	11/01/96	SMSSVOA127
4-Bromophenyl-phenylether	ND	mg/Kg	0.50	1.7	11/01/96	SMSSVOA127
Hexachlorobenzene	ND	mg/Kg	0.50	1.7	11/01/96	SMSSVOA127
Pentachlorophenol	ND	mg/Kg	10	1.7	11/01/96	SMSSVOA127
2,4-Dinitrophenol	ND	mg/Kg	10	1.7	11/01/96	SMSSVOA127
Phenanthrene	ND	mg/Kg	0.50	1.7	11/01/96	SMSSVOA127
Anthracene	ND	mg/Kg	0.50	1.7	11/01/96	SMSSVOA127
Di-n-butylphthalate	30B	mg/Kg	5.0	1.7	11/01/96	SMSSVOA127
Fluoranthene	ND	mg/Kg	0.50	1.7	11/01/96	SMSSVOA127
Pyrene	ND	mg/Kg	0.50	1.7	11/01/96	SMSSVOA127
Butylbenzylphthalate	ND	mg/Kg	0.50	1.7	11/01/96	SMSSVOA127
Benzo(a)anthracene	ND	mg/Kg	0.50	1.7	11/01/96	SMSSVOA127
Chrysene	ND	mg/Kg	0.50	1.7	11/01/96	SMSSVOA127
3,3'-Dichlorobenzidine	ND	mg/Kg	10	1.7	11/01/96	SMSSVOA127
's(2-Ethylhexyl)phthalate	ND	mg/Kg	2.5	1.7	11/01/96	SMSSVOA127
-n-octyl phthalate	ND	mg/Kg	0.50	1.7	11/01/96	SMSSVOA127
zo(b)+(k)fluoranthene	ND	mg/Kg	0.50	1.7	11/01/96	SMSSVOA127
.ethylnaphthalene	ND	mg/Kg	1.0	1.7	11/01/96	SMSSVOA127
Benzo(a)pyrene	ND	mg/Kg	0.50	1.7	11/01/96	SMSSVOA127
Indeno(1,2,3-cd)pyrene	ND	mg/Kg	1.0	1.7	11/01/96	SMSSVOA127

ID: 9610156-02C
Sample ID: CA92/15-96-1016-1446

Collected: 10/15/96 14:46:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
SVOA(SOX) Soil/SW846 8270B						
Benzo(g,h,i)perylene	ND	mg/Kg	1.0	1.7	11/01/96	SMSSVOA127
2,3,4,6-Tetrachlorophenol	ND	mg/Kg	2.5	1.7	11/01/96	SMSSVOA127
Azobenzene	ND	mg/Kg	1.0	1.7	11/01/96	SMSSVOA127
Dibenz(a,h)anthracene	ND	mg/Kg	1.0	1.7	11/01/96	SMSSVOA127

Lab ID: 9610156-02D
Sample ID: CA92/15-96-1016-1446

Collected: 10/15/96 14:46:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
% SOLIDS(TCLP XT)EPA 160.3	100.00	% (Percent)				
(FAA) DIG SOIL/SW846 3050	10/24/96	N/A				
BARIUM (FAA)/SW846 7080						
Barium, Ba	169	mg/Kg	25	1.0	10/28/96	M9668
CVAA Hg XT/SW846 7471	10/23/96	N/A				
MERCURY (CVAA)/SW846 7471						
Mercury	ND	mg/Kg	0.15	1.0	10/24/96	M9664
Metal(ICP) DIG /SW846 3050	10/24/96	N/A				
METALS-ICP/SW846 6010						
ilver, Ag	ND	mg/Kg	1.0	1.0	10/26/96	M9668
minum, Al	NT	mg/Kg	25			M9668
nic, As	ND	mg/Kg	3.0	1.0	10/26/96	M9668
Barium, Ba	NT	mg/Kg	0.50			M9668
Beryllium, Be	NT	mg/Kg	0.50			M9668
Calcium, Ca	NT	mg/Kg	15			M9668
Cadmium, Cd	ND	mg/Kg	0.20	1.0	10/26/96	M9668
Cobalt, Co	NT	mg/Kg	0.50			M9668
Chromium, Cr	5.8	mg/Kg	1.0	1.0	10/26/96	M9668
Copper, Cu	NT	mg/Kg	0.50			M9668
Iron, Fe	NT	mg/Kg	15			M9668
Potassium, K	NT	mg/Kg	10			M9668
Magnesium, Mg	NT	mg/Kg	10			M9668
Manganese, Mn	NT	mg/Kg	0.25			M9668
Sodium, Na	NT	mg/Kg	15			M9668
Nickel, Ni	6.0	mg/Kg	2.0	1.0	10/26/96	M9668
Lead, Pb	4.6	mg/Kg	2.0	1.0	10/26/96	M9668
Antimony, Sb	NT	mg/Kg	1.5			M9668
Selenium, Se	ND	mg/Kg	2.5	1.0	10/26/96	M9668
Vanadium, V	NT	mg/Kg	0.15			M9668
Zinc, Zn	NT	mg/Kg	5.0			M9668
TCLP (ICP) DIG/1311/3005	10/25/96	N/A				
TCLP BARIUM(FAA)/1311/7080						
Barium, Ba	1.2	mg/L	0.50	1.0	10/28/96	M9670
TCLP EXTRACTION/TCLP 1311	10/21/96	N/A				
TCLP METALS/1311/SW8466010						
Arsenic, As	ND	mg/L	0.40	1.0	10/26/96	M9670,M9687
Barium, Ba	NT	mg/L	0.50			M9670,M9687
Cadmium, Cd	ND	mg/L	0.0050	1.0	10/26/96	M9670,M9687
Chromium, Cr	ND	mg/L	0.020	1.0	10/26/96	M9670,M9687
Lead, Pb	ND	mg/L	0.050	1.0	10/26/96	M9670,M9687
Mercury, Hg	ND	mg/L	0.0020	1.0	10/31/96	M9670,M9687
Selenium, Se	ND	mg/L	0.050	1.0	10/26/96	M9670,M9687
Silver, Ag	ND	mg/L	0.040	1.0	10/26/96	M9670,M9687
TCLP(CVAA)Hg XT/SW846 7471	10/29/96	N/A				

ID: 9610156-03A **Collected:** 10/15/96 14:31:00
Sample ID: CA92/8-96-1015-1431 **Matrix:** SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
% SOLIDS(TCLP XT)EPA 160.3	100.00	% (Percent)				
TCLP (ICP) DIG/1311/3005	10/25/96	N/A				
TCLP BARIUM(FAA)/1311/7080						
Barium, Ba	1.2	mg/L	0.50	1.0	10/28/96	M9670
TCLP EXTRACTION/TCLP 1311	10/21/96	N/A				
TCLP METALS/1311/SW8466010						
Arsenic, As	ND	mg/L	0.40	1.0	10/26/96	M9670,M9687
Barium, Ba	NT	mg/L	0.50			M9670,M9687
Cadmium, Cd	ND	mg/L	0.0050	1.0	10/26/96	M9670,M9687
Chromium, Cr	ND	mg/L	0.020	1.0	10/26/96	M9670,M9687
Lead, Pb	ND	mg/L	0.050	1.0	10/26/96	M9670,M9687
Mercury, Hg	ND	mg/L	0.0020	1.0	10/31/96	M9670,M9687
Selenium, Se	ND	mg/L	0.050	1.0	10/26/96	M9670,M9687
Silver, Ag	ND	mg/L	0.040	1.0	10/26/96	M9670,M9687
TCLP(CVAA)Hg XT/SW846 7471	10/29/96	N/A				

Lab ID: 9610156-04A **Collected:** 10/16/96 14:45:00
Sample ID: CA92/14-96-1016-1445 **Matrix:** SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
SOLIDS(TCLP XT)EPA 160.3	100.00	% (Percent)				
(ICP) DIG/1311/3005	10/25/96	N/A				
TCLP BARIUM(FAA)/1311/7080						
Barium, Ba	1.2	mg/L	0.50	1.0	10/28/96	M9670
TCLP EXTRACTION/TCLP 1311	10/21/96	N/A				
TCLP METALS/1311/SW8466010						
Arsenic, As	ND	mg/L	0.40	1.0	10/26/96	M9670,M9687
Barium, Ba	NT	mg/L	0.50			M9670,M9687
Cadmium, Cd	ND	mg/L	0.0050	1.0	10/26/96	M9670,M9687
Chromium, Cr	ND	mg/L	0.020	1.0	10/26/96	M9670,M9687
Lead, Pb	ND	mg/L	0.050	1.0	10/26/96	M9670,M9687
Mercury, Hg	ND	mg/L	0.0020	1.0	10/31/96	M9670,M9687
Selenium, Se	ND	mg/L	0.050	1.0	10/26/96	M9670,M9687
Silver, Ag	ND	mg/L	0.040	1.0	10/26/96	M9670,M9687
TCLP(CVAA)Hg XT/SW846 7471	10/29/96	N/A				

Lab ID: 9610156-05A **Collected:** 10/15/96 14:25:00
Sample ID: CA92/2-96-1015-1425 **Matrix:** SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
BTEX/SW846 8020A						
Benzene	ND	mg/Kg	0.0010	5.0	10/29/96	SBTXME135
Toluene	ND	mg/Kg	0.0010	5.0	10/29/96	SBTXME135
Ethylbenzene	ND	mg/Kg	0.0010	5.0	10/29/96	SBTXME135
P-&m-Xylene	ND	mg/Kg	0.0010	5.0	10/29/96	SBTXME135
O-Xylene	ND	mg/Kg	0.0010	5.0	10/29/96	SBTXME135
Diesel Range OG Soil/M8015						
Diesel Range OG in Soil	ND	mg/Kg	50	1.0	10/23/96	SDRO003

ID: 9610156-06A
Sample ID: CA92/6-96-1015-1429

Collected: 10/15/96 14:29:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
BTEX/SW846 8020A						
Benzene	ND	mg/Kg	0.0010	5.0	10/29/96	SBTXME135
Toluene	ND	mg/Kg	0.0010	5.0	10/29/96	SBTXME135
Ethylbenzene	ND	mg/Kg	0.0010	5.0	10/29/96	SBTXME135
P-&m-Xylene	ND	mg/Kg	0.0010	5.0	10/29/96	SBTXME135
O-Xylene	ND	mg/Kg	0.0010	5.0	10/29/96	SBTXME135
Diesel Range OG Soil/M8015						
Diesel Range OG in Soil	ND	mg/Kg	50	1.0	10/23/96	SDRO003

Fred L. Shore, Ph.D.
VP of Laboratory Operations

WORKORDER COMMENTS

DATE : 11/06/96
WORKORDER:

DEFINITIONS/DATA QUALIFIERS

The following are definitions, abbreviations, and data qualifiers which may have been utilized in your report:

ND = Analyte "not detected" in analysis at the sample specific detection limit.
D_F = Sample "dilution factor"
NT = Analyte "not tested" per client request.
B = Analyte was also detected in laboratory method QC blank.
E = Analyte concentration (result) is an estimated value or exceeds analysis calibration range.
LIMIT = The minimum amount of the analyte that AAL can detect utilizing the specified analysis.

Please Note: Multiply the "Limit" value (AAL's Detection Limit) by Dilution Factor (D_F) to obtain the sample specific Detection Limit.

*** Analytical results reported pertain only to the samples provided ***
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REPORT COMMENTS

ASSAIGAI ANALYTICAL LABORATORIES

Chain of Custody Record

Lab job no.: 10156 Date 10/18/96

Page 1 of 1

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MIDLAND, TEXAS 79705
(915) 570-1116

MELQUIADES ALANIS
6411 LOCAL UNO
CIUDAD JUAREZ, CHIHUAHUA MEXICO 32320

Client: Cheyenne / ICI-2, INC

Address: 1712 Spruce St

City / State / Zip: CLOVIS NM 88101

Project Name / Number: DACA47-95-D-0035

Contract / Purchase Order / Quote: Dan Moore

Project Manager / Contact: Mike Landgraf

Telephone No.: 505-763-1410

Fax No.: 505-769-0780

Samplers: (Signature)

Analysis Required

AAL Fraction Number	Field Sample Number / Location	Date	Time	Sample Type	Type / Size of Container	Preservation Temp.	Preservation Chemical	No. of Containers	8015 MOD TRPH	8260 VOA's	8270 Semi-Vol	6010 + 7470 Metals	1311 Extraction	8020 BTEX	1311 TCLP			Remarks
1A-D	CH92/7-96-1015-1430	2:30	10/15	soil	1-4oz, 3=8oz glass			4	X	X	X	X					site	confirmatory
2H-D	CH92/15-96-1016-1496	2:46	10/16	soil	" "			4	X	X	X	X						"
3A	CH92/8-96-1015-1431	10/15	2:31	soil	1=8oz glass			1						X				suspected material
4H	CH92/14-96-1016-1495	10/16	2:45	soil	"			1						X				confirmatory
5H	CH92/2-96-1015-1425	10/15	2:25	soil	1=4oz glass			1	X				X					correlation
6H	CH92/6-96-1015-1429	10/15	2:29	soil	"			1	X				X					samples

2 x qts

Relinquished by:	Date / Time	Received by:	Relinquished by:	Date / Time	Received by:
Signature: [illegible]	10/17/96	Signature: Sally Gonzalez	Signature:	10/18/96	Signature: [illegible]
Printed: Troy Rivera	Time: 3:00	Printed:	Printed:	Time: 925	Printed:
Company: City		Company: TNM&O	Company: TNM&O		Company: AAL
Reason: Shipment		Reason: Shipment	Reason:		Reason:

Method of Shipment: Bus

Shipment No.:

Special Instructions: Handle with Care!

Comments: C.O.C

After analysis, samples are to be:

- ☐ Disposed of (additional fee)
- ☐ Stored (30 days max)
- ☐ Stored over 30 days (additional fee)
- ☐ Returned to customer

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Report Generated:
November 25, 1996 08:22

CERTIFICATE OF ANALYSIS
RESULTS BY SAMPLE

SENT TO: CHEYENNE BUILDING CONTRACTORS
P.O. BOX 418
CLOVIS, NM 88101

ATTN: MIKE LANDGRAF

WORKORDER # : 9610239
WORK ID : DACA48-95-D-0035
CLIENT CODE : CHE10
DATE RECEIVED : 10/30/96

Lab ID: 9610239-01A
Sample ID: CA33/2-96-1025-1401
Collected: 10/25/96 14:01:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
BTEX/SW846 8020A						
Benzene	ND*	mg/Kg	0.0010	5.0	11/11/96	SBTXME136
Toluene	ND*	mg/Kg	0.0010	5.0	11/11/96	SBTXME136
Ethylbenzene	ND*	mg/Kg	0.0010	5.0	11/11/96	SBTXME136
P-&m-Xylene	ND*	mg/Kg	0.0010	5.0	11/11/96	SBTXME136
O-Xylene	ND*	mg/Kg	0.0010	5.0	11/11/96	SBTXME136
al Range OG Soil/M8015						
Range OG in Soil	ND	mg/Kg	50	1.0	11/06/96	SDRO004

Lab ID: 9610239-01B
Sample ID: CANCEL
Collected:
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
CANCELLED SAMPLE	N/A	N/A				

Lab ID: 9610239-02A
Sample ID: CA33/6-96-1025-1405
Collected: 10/25/96 14:05:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
BTEX/SW846 8020A						
Benzene	ND*	mg/Kg	0.0010	5.0	11/11/96	SBTXME136
Toluene	ND*	mg/Kg	0.0010	5.0	11/11/96	SBTXME136
Ethylbenzene	ND*	mg/Kg	0.0010	5.0	11/11/96	SBTXME136
P-&m-Xylene	ND*	mg/Kg	0.0010	5.0	11/11/96	SBTXME136
O-Xylene	ND*	mg/Kg	0.0010	5.0	11/11/96	SBTXME136
Diesel Range OG Soil/M8015						
Diesel Range OG in Soil	ND	mg/Kg	50	1.0	11/06/96	SDRO004

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ID: 9610239-03A
ple ID: CAOWS/A-96-1029-1445

Collected: 10/29/96 14:45:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
CANCELLED SAMPLE	N/A	N/A				

Fred L. Shore, Ph.D.
VP of Laboratory Operations

WORKORDER COMMENTS

DATE : 11/25/96
WORKORDER: 9610239

DEFINITIONS/DATA QUALIFIERS

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ND = Analyte "not detected" in analysis at the sample specific detection limit.
D_F = Sample "dilution factor"
NT = Analyte "not tested" per client request.
B = Analyte was also detected in laboratory method QC blank.
E = Analyte concentration (result) is an estimated value or exceeds analysis calibration range.
LIMIT = The minimum amount of the analyte that AAL can detect utilizing the specified analysis.

Please Note: Multiply the "Limit" value (AAL's Detection Limit) by Dilution Factor (D_F) to obtain the sample specific Detection Limit.

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*** ***
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REPORT COMMENTS

*Please Note:Sample fractions 01A and 02A for BTEX were analyzed 2 days outside of the EPA recommended hold-time. These data have been provided at no charge and should be evaluated accordingly.

ASSAIGAI ANALYTICAL LABORATORIES

Chain of Custody Record

Lab job no.: 10237 Date 10/30/96

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(915) 570-1116

MELQUIADES ALANIS
6411 LOCAL UNO
CIUDAD JUAREZ, CHIHUAHUA MEXICO 32320

Client: Cheyenne / ICI-2, LLC.

Project Manager / Contact: Mike Landgraf

Address: 1712 S Prince St Clovis

Telephone No.: (505) 763-1410

City / State / Zip: Clovis NM 88101

Fax No.: (505) 769-0780

Project Name / Number: DACA47-95-D-0025

Samplers: (Signature)

Contract / Purchase Order / Quote: DAN MOORE

Diesel only

Analysis Required

Field Sample Number / Location	Date	Time	Sample Type	Type / Size of Container	Preservation Temp.	Preservation Chemical	No. of Containers	TPH 8015 mod	BTEX 8020	TCLP BH					Remarks
CH33/2-96-1025-1401	10/25	2:01	soil	4 oz glass			1	X	X						cuttings 1 of 10
CH33/6-96-1025-1405	10/25	2:05	Soil	4 oz glass			1	X	X						" highest
CH33/1-96-1029-1445	10/29	2:45	concrete	8 oz glass						X					Confirmatory sample concrete waste

Relinquished by:	Date	Received by:	Relinquished by:	Date	Received by:
Signature: [signature]	10/29/96	Signature: William Perales	Signature:	10/30/96	Signature: [signature]
Printed: Troy Morales	Time: 6:30 PM	Printed: WILLIAM PERALES	Printed:	Time: 908	Printed:
Company: Cheyenne		Company: TNMU-Bus	Company: TNMU-Bus		Company:
Reason: Shipment		Reason: SHIPMENT.	Reason:		Reason:

Method of Shipment:

Shipment No.

Special Instructions:

Comments:

After analysis, samples are to be:

- ☐ Disposed of (additional fee)
- ☐ Stored (30 days max)
- ☐ Stored over 30 days (additional fee)
- ☐ Returned to customer

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Report Generated:
November 15, 1996 16:42

CERTIFICATE OF ANALYSIS
RESULTS BY SAMPLE

SENT TO: CHEYENNE BUILDING CONTRACTORS
P.O. BOX 418
CLOVIS, NM 88101

ATTN: MIKE LANDGRAF

WORKORDER # : 9610219
WORK ID : DACA47-95-D-0035
CLIENT CODE : CHE10
DATE RECEIVED : 10/25/96

Lab ID: 9610219-01A
Sample ID: CA33/7-96-1025-1406
Collected: 10/25/96 14:06:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
Diesel Range OG Soil/M8015						
Diesel Range OG in Soil	ND	mg/Kg	50	1.0	11/06/96	SDRO004

Lab ID: 9610219-01B
Sample ID: CA33/7-96-1025-1406
Collected: 10/25/96 14:06:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
VOLATILES/SW846 8260						
Dichlorodifluoromethane	ND	mg/Kg	0.010	5.0	11/01/96	SMSVOA400
Chloromethane	ND	mg/Kg	0.0050	5.0	11/01/96	SMSVOA400
Iodomethane	ND	mg/Kg	0.0050	5.0	11/01/96	SMSVOA400
Acetone	ND	mg/Kg	0.0050	5.0	11/01/96	SMSVOA400
Bromomethane	ND	mg/Kg	0.0050	5.0	11/01/96	SMSVOA400
Vinyl Chloride	ND	mg/Kg	0.0050	5.0	11/01/96	SMSVOA400
Chloroethane	ND	mg/Kg	0.0050	5.0	11/01/96	SMSVOA400
Trichlorofluoromethane	ND	mg/Kg	0.0050	5.0	11/01/96	SMSVOA400
Freon 113	ND	mg/Kg	0.0050	5.0	11/01/96	SMSVOA400
Carbon Disulfide	ND	mg/Kg	0.0050	5.0	11/01/96	SMSVOA400
Acrolein	ND	mg/Kg	0.020	5.0	11/01/96	SMSVOA400
Methylene Chloride	ND	mg/Kg	0.010	5.0	11/01/96	SMSVOA400
1,1-Dichloroethene	ND	mg/Kg	0.0010	5.0	11/01/96	SMSVOA400
1,1-Dichloroethane	ND	mg/Kg	0.0010	5.0	11/01/96	SMSVOA400
Acrylonitrile	ND	mg/Kg	0.020	5.0	11/01/96	SMSVOA400
trans-1,2-Dichloroethene	ND	mg/Kg	0.0010	5.0	11/01/96	SMSVOA400
Chloroform	ND	mg/Kg	0.0010	5.0	11/01/96	SMSVOA400
1,2-Dichloroethane	ND	mg/Kg	0.0010	5.0	11/01/96	SMSVOA400
Vinyl Acetate	ND	mg/Kg	0.0050	5.0	11/01/96	SMSVOA400
cis-1,2-Dichloroethene	ND	mg/Kg	0.0010	5.0	11/01/96	SMSVOA400
2-Butanone (MEK)	ND	mg/Kg	0.0050	5.0	11/01/96	SMSVOA400
1,1,1-Trichloroethane	ND	mg/Kg	0.0010	5.0	11/01/96	SMSVOA400
Carbon Tetrachloride	ND	mg/Kg	0.0010	5.0	11/01/96	SMSVOA400
Bromodichloromethane	ND	mg/Kg	0.0010	5.0	11/01/96	SMSVOA400
1,2-Dichloropropane	ND	mg/Kg	0.0010	5.0	11/01/96	SMSVOA400
Dibromomethane	ND	mg/Kg	0.0010	5.0	11/01/96	SMSVOA400
trans-1,3-Dichloropropene	ND	mg/Kg	0.0010	5.0	11/01/96	SMSVOA400
Trichloroethene	ND	mg/Kg	0.0010	5.0	11/01/96	SMSVOA400
Bromodibromomethane	ND	mg/Kg	0.0010	5.0	11/01/96	SMSVOA400
Ethyl Methacrylate	ND	mg/Kg	0.0050	5.0	11/01/96	SMSVOA400
2-Chloroethylvinyl Ether	ND	mg/Kg	0.0050	5.0	11/01/96	SMSVOA400

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THIS REPORT MAY NOT BE USED IN ANY MANNER BY THE CLIENT OR ANY OTHER THIRD PARTY TO CLAIM
PRODUCT ENDORSEMENT BY THE NATIONAL VOLUNTARY LABORATORY ACCREDITATION PROGRAM.

ID: 9610219-01B
Sample ID: CA33/7-96-1025-1406

Collected: 10/25/96 14:06:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
VOLATILES/SW846 8260						
1,1,2-Trichloroethane	ND	mg/Kg	0.0010	5.0	11/01/96	SMSVOA400
Benzene	ND	mg/Kg	0.0010	5.0	11/01/96	SMSVOA400
cis-1,3-Dichloropropene	ND	mg/Kg	0.0010	5.0	11/01/96	SMSVOA400
Bromoform	ND	mg/Kg	0.0010	5.0	11/01/96	SMSVOA400
4-Methyl-2-Pentanone (MIBK)	ND	mg/Kg	0.0050	5.0	11/01/96	SMSVOA400
Tetrachloroethene	ND	mg/Kg	0.0010	5.0	11/01/96	SMSVOA400
1,1,2,2-Tetrachloroethane	ND	mg/Kg	0.0010	5.0	11/01/96	SMSVOA400
1,2-Dibromoethane	ND	mg/Kg	0.0010	5.0	11/01/96	SMSVOA400
2-Hexanone (MBK)	ND	mg/Kg	0.0050	5.0	11/01/96	SMSVOA400
1,1,1,2-Tetrachloroethane	ND	mg/Kg	0.0010	5.0	11/01/96	SMSVOA400
Toluene	ND	mg/Kg	0.0010	5.0	11/01/96	SMSVOA400
Chlorobenzene	ND	mg/Kg	0.0010	5.0	11/01/96	SMSVOA400
Ethylbenzene	ND	mg/Kg	0.0010	5.0	11/01/96	SMSVOA400
1,4-Dichloro-2-Butene	ND	mg/Kg	0.010	5.0	11/01/96	SMSVOA400
Styrene	ND	mg/Kg	0.0010	5.0	11/01/96	SMSVOA400
P/M Xylene	ND	mg/Kg	0.0020	5.0	11/01/96	SMSVOA400
O-Xylene	ND	mg/Kg	0.0010	5.0	11/01/96	SMSVOA400
1,2,3-Trichloropropane	ND	mg/Kg	0.0010	5.0	11/01/96	SMSVOA400
Methyl-tert Butyl Ether	ND	mg/Kg	0.010	5.0	11/01/96	SMSVOA400
1,2-Dichlorobenzene	ND	mg/Kg	0.0010	5.0	11/01/96	SMSVOA400
1,3-Dichlorobenzene	ND	mg/Kg	0.0010	5.0	11/01/96	SMSVOA400
1,4-Dichlorobenzene	ND	mg/Kg	0.0010	5.0	11/01/96	SMSVOA400

ID: 9610219-01C
Sample ID: CA33/7-96-1025-1406

Collected: 10/25/96 14:06:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
SVOA(SOX) Soil/SW846 8270B	11/05/96	N/A				
n-Nitrosodimethylamine	ND	mg/Kg	1.0	1.8	11/12/96	SMSSVOA128
Pyridine	ND	mg/Kg	10	1.8	11/12/96	SMSSVOA128
Aniline	ND	mg/Kg	10	1.8	11/12/96	SMSSVOA128
bis(2-Chloroethyl) Ether	ND	mg/Kg	0.50	1.8	11/12/96	SMSSVOA128
2-Chlorophenol	ND	mg/Kg	0.50	1.8	11/12/96	SMSSVOA128
1,3-Dichlorobenzene	ND	mg/Kg	0.50	1.8	11/12/96	SMSSVOA128
1,4-Dichlorobenzene	ND	mg/Kg	0.50	1.8	11/12/96	SMSSVOA128
Phenol	ND	mg/Kg	0.50	1.8	11/12/96	SMSSVOA128
1,2-Dichlorobenzene	ND	mg/Kg	0.50	1.8	11/12/96	SMSSVOA128
Benzyl Alcohol	ND	mg/Kg	10	1.8	11/12/96	SMSSVOA128
bis(2-Chloroisopropyl) Ether	ND	mg/Kg	1.0	1.8	11/12/96	SMSSVOA128
2-Methylphenol / O-Cresol	ND	mg/Kg	0.50	1.8	11/12/96	SMSSVOA128
Hexachloroethane	ND	mg/Kg	0.50	1.8	11/12/96	SMSSVOA128
n-Nitroso-di-n-propylamine	ND	mg/Kg	0.50	1.8	11/12/96	SMSSVOA128
Nitrobenzene	ND	mg/Kg	0.50	1.8	11/12/96	SMSSVOA128
3/4 Methylphenol / M/P-Cresol	ND	mg/Kg	0.50	1.8	11/12/96	SMSSVOA128
Isophorone	ND	mg/Kg	0.50	1.8	11/12/96	SMSSVOA128
2-Nitrophenol	ND	mg/Kg	1.0	1.8	11/12/96	SMSSVOA128
bis(2-Chloroethoxy) Methane	ND	mg/Kg	0.50	1.8	11/12/96	SMSSVOA128
2,4-Dimethylphenol	ND	mg/Kg	1.0	1.8	11/12/96	SMSSVOA128
1,2,4-Trichlorobenzene	ND	mg/Kg	0.50	1.8	11/12/96	SMSSVOA128
Naphthalene	ND	mg/Kg	0.50	1.8	11/12/96	SMSSVOA128
Benzoic Acid	ND	mg/Kg	10	1.8	11/12/96	SMSSVOA128
',4-Dichlorophenol	ND	mg/Kg	1.0	1.8	11/12/96	SMSSVOA128
-Chloroaniline	ND	mg/Kg	10	1.8	11/12/96	SMSSVOA128
'achlorobutadiene	ND	mg/Kg	0.50	1.8	11/12/96	SMSSVOA128
.ethylnaphthalene	ND	mg/Kg	0.50	1.8	11/12/96	SMSSVOA128
4-Chloro-3-methylphenol	ND	mg/Kg	0.50	1.8	11/12/96	SMSSVOA128
Hexachlorocyclopentadiene	ND	mg/Kg	10	1.8	11/12/96	SMSSVOA128

D: 9610219-01C
Sample ID: CA33/7-96-1025-1406

Collected: 10/25/96 14:06:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
SVOA(SOX) Soil/SW846 8270B						
2,4,6-Trichlorophenol	ND	mg/Kg	1.0	1.8	11/12/96	SMSSVOA128
2,4,5-Trichlorophenol	ND	mg/Kg	1.0	1.8	11/12/96	SMSSVOA128
2-Chloronaphthalene	ND	mg/Kg	0.50	1.8	11/12/96	SMSSVOA128
2-Nitroaniline	ND	mg/Kg	1.0	1.8	11/12/96	SMSSVOA128
Acenaphthylene	ND	mg/Kg	0.50	1.8	11/12/96	SMSSVOA128
Dimethylphthalate	ND	mg/Kg	0.50	1.8	11/12/96	SMSSVOA128
2,6-Dinitrotoluene	ND	mg/Kg	1.0	1.8	11/12/96	SMSSVOA128
Acenaphthene	ND	mg/Kg	0.50	1.8	11/12/96	SMSSVOA128
3-Nitroaniline	ND	mg/Kg	10	1.8	11/12/96	SMSSVOA128
Dibenzofuran	ND	mg/Kg	0.50	1.8	11/12/96	SMSSVOA128
2,4-Dinitrotoluene	ND	mg/Kg	2.5	1.8	11/12/96	SMSSVOA128
Fluorene	ND	mg/Kg	0.50	1.8	11/12/96	SMSSVOA128
4-Chlorophenyl-phenylether	ND	mg/Kg	0.50	1.8	11/12/96	SMSSVOA128
Diethylphthalate	ND	mg/Kg	0.50	1.8	11/12/96	SMSSVOA128
4-Nitrophenol	ND	mg/Kg	10	1.8	11/12/96	SMSSVOA128
4,6-Dinitro-2-methylphenol	ND	mg/Kg	10	1.8	11/12/96	SMSSVOA128
n-Nitrosodiphenylamine	ND	mg/Kg	0.50	1.8	11/12/96	SMSSVOA128
4-Nitroaniline	ND	mg/Kg	10	1.8	11/12/96	SMSSVOA128
4-Bromophenyl-phenylether	ND	mg/Kg	0.50	1.8	11/12/96	SMSSVOA128
Hexachlorobenzene	ND	mg/Kg	0.50	1.8	11/12/96	SMSSVOA128
Pentachlorophenol	ND	mg/Kg	10	1.8	11/12/96	SMSSVOA128
2,4-Dinitrophenol	ND	mg/Kg	10	1.8	11/12/96	SMSSVOA128
Phenanthrene	ND	mg/Kg	0.50	1.8	11/12/96	SMSSVOA128
Anthracene	ND	mg/Kg	0.50	1.8	11/12/96	SMSSVOA128
i-n-butylphthalate	ND	mg/Kg	5.0	1.8	11/12/96	SMSSVOA128
anthene	ND	mg/Kg	0.50	1.8	11/12/96	SMSSVOA128
[illegible]e	ND	mg/Kg	0.50	1.8	11/12/96	SMSSVOA128
Butylbenzylphthalate	ND	mg/Kg	0.50	1.8	11/12/96	SMSSVOA128
Benzo(a)anthracene	ND	mg/Kg	0.50	1.8	11/12/96	SMSSVOA128
Chrysene	ND	mg/Kg	0.50	1.8	11/12/96	SMSSVOA128
3,3'-Dichlorobenzidine	ND	mg/Kg	10	1.8	11/12/96	SMSSVOA128
bis(2-Ethylhexyl)phthalate	ND	mg/Kg	2.5	1.8	11/12/96	SMSSVOA128
Di-n-octyl phthalate	ND	mg/Kg	0.50	1.8	11/12/96	SMSSVOA128
Benzo(b)+(k)fluoranthene	ND	mg/Kg	0.50	1.8	11/12/96	SMSSVOA128
1-Methylnaphthalene	ND	mg/Kg	1.0	1.8	11/12/96	SMSSVOA128
Benzo(a)pyrene	ND	mg/Kg	0.50	1.8	11/12/96	SMSSVOA128
Indeno(1,2,3-cd)pyrene	ND	mg/Kg	1.0	1.8	11/12/96	SMSSVOA128
Benzo(g,h,i)perylene	ND	mg/Kg	1.0	1.8	11/12/96	SMSSVOA128
2,3,4,6-Tetrachlorophenol	ND	mg/Kg	2.5	1.8	11/12/96	SMSSVOA128
Azobenzene	ND	mg/Kg	1.0	1.8	11/12/96	SMSSVOA128
Dibenz(a,h)anthracene	ND	mg/Kg	1.0	1.8	11/12/96	SMSSVOA128

Lab ID: 9610219-01D
Sample ID: CA33/7-96-1025-1406

Collected: 10/25/96 14:06:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
% SOLIDS(TCLP XT)EPA 160.3	100.00	% (Percent)				
CVAA Hg XT/SW846 7471	10/30/96	N/A				
MERCURY (CVAA)/SW846 7471						
Mercury	ND	mg/Kg	0.15	1.0	10/31/96	M9688
Metal(ICP) DIG /SW846 3050	11/01/96	N/A				
METALS-ICP/SW846 6010						
Silver, Ag	ND	mg/Kg	1.0	1.0	11/04/96	M9693
Aluminum, Al	NT	mg/Kg	25			M9693
Arsenic, As	ND	mg/Kg	3.0	1.0	11/04/96	M9693
Barium, Ba	125	mg/Kg	0.50	1.0	11/04/96	M9693
Beryllium, Be	NT	mg/Kg	0.50			M9693

D: 9610219-01D
Sample ID: CA33/7-96-1025-1406

Collected: 10/25/96 14:06:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
METALS-ICP/SW846 6010						
Calcium, Ca	NT	mg/Kg	15			M9693
Cadmium, Cd	0.22	mg/Kg	0.20	1.0	11/04/96	M9693
Cobalt, Co	NT	mg/Kg	0.50			M9693
Chromium, Cr	6.1	mg/Kg	1.0	1.0	11/04/96	M9693
Copper, Cu	NT	mg/Kg	0.50			M9693
Iron, Fe	NT	mg/Kg	15			M9693
Potassium, K	NT	mg/Kg	10			M9693
Magnesium, Mg	NT	mg/Kg	10			M9693
Manganese, Mn	NT	mg/Kg	0.25			M9693
Sodium, Na	NT	mg/Kg	15			M9693
Nickel, Ni	5.8	mg/Kg	2.0	1.0	11/04/96	M9693
Lead, Pb	4.6	mg/Kg	2.0	1.0	11/04/96	M9693
Antimony, Sb	NT	mg/Kg	1.5			M9693
Selenium, Se	ND	mg/Kg	2.5	1.0	11/04/96	M9693
Vanadium, V	NT	mg/Kg	0.15			M9693
Zinc, Zn	NT	mg/Kg	5.0			M9693
TCLP (ICP) DIG/1311/3005	10/31/96	N/A				
TCLP EXTRACTION/TCLP 1311	10/30/96	N/A				
TCLP METALS/1311/SW8466010						
Arsenic, As	ND	mg/L	0.40	1.0	11/06/96	M9692,M9699
Barium, Ba	1.1	mg/L	0.50	1.0	11/06/96	M9692,M9699
Cadmium, Cd	ND	mg/L	0.0050	1.0	11/06/96	M9692,M9699
Chromium, Cr	ND	mg/L	0.020	1.0	11/06/96	M9692,M9699
Lead, Pb	ND	mg/L	0.050	1.0	11/06/96	M9692,M9699
Mercury, Hg	ND	mg/L	0.0020	1.0	11/06/96	M9692,M9699
Selenium, Se	ND	mg/L	0.050	1.0	11/06/96	M9692,M9699
Silver, Ag	ND	mg/L	0.040	1.0	11/06/96	M9692,M9699
TCLP(CVAA)Hg XT/SW846 7471	11/05/96	N/A				

Lab ID: 9610219-02A
Sample ID: CA33/8-96-1025-1407

Collected: 10/25/96 14:07:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
% SOLIDS(TCLP XT)EPA 160.3	100.00	% (Percent)				
TCLP (ICP) DIG/1311/3005	10/31/96	N/A				
TCLP EXTRACTION/TCLP 1311	10/30/96	N/A				
TCLP METALS/1311/SW8466010						
Arsenic, As	ND	mg/L	0.40	1.0	11/06/96	M9692,M9699
Barium, Ba	1.3	mg/L	0.50	1.0	11/06/96	M9692,M9699
Cadmium, Cd	ND	mg/L	0.0050	1.0	11/06/96	M9692,M9699
Chromium, Cr	ND	mg/L	0.020	1.0	11/06/96	M9692,M9699
Lead, Pb	ND	mg/L	0.050	1.0	11/06/96	M9692,M9699
Mercury, Hg	ND	mg/L	0.0020	1.0	11/06/96	M9692,M9699
Selenium, Se	ND	mg/L	0.050	1.0	11/06/96	M9692,M9699
Silver, Ag	ND	mg/L	0.040	1.0	11/06/96	M9692,M9699
TCLP(CVAA)Hg XT/SW846 7471	11/05/96	N/A				

Fred L. Shore, Ph.D.
VP of Laboratory Operations

WORKORDER COMMENTS

DATE : 11/15/96
WORKORDER:

DEFINITIONS/DATA QUALIFIERS

The following are definitions, abbreviations, and data qualifiers which may have been utilized in your report:

ND = Analyte "not detected" in analysis at the sample specific detection limit.
D_F = Sample "dilution factor"
NT = Analyte "not tested" per client request.
B = Analyte was also detected in laboratory method QC blank.
E = Analyte concentration (result) is an estimated value or exceeds analysis calibration range.
LIMIT = The minimum amount of the analyte that AAL can detect utilizing the specified analysis.

Please Note: Multiply the "Limit" value (AAL's Detection Limit) by Dilution Factor (D_F) to obtain the sample specific Detection Limit.

*** Analytical results reported pertain only to the samples provided ***
*** for analysis and may not represent actual field conditions. ***
***
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REPORT COMMENTS

SAIGAI ANALYTICAL LABORATORIES

Chain of Custody Record

Lab job no.: 10219 Date 10/25/96

Page 1 of 1

7300 JEFFERSON, N.E.
ALBUQUERQUE, NEW MEXICO
(505) 345-8964

3332 WEDGEWOOD
EL PASO, TEXAS 79925
(915) 593-6000

1910 N. BIG SPRING
MIDLAND, TEXAS 79705
(915) 570-1116

MELQUIADES ALANIS
6411 LOCAL UNO
CIUDAD JUAREZ, CHIHUAHUA MEXICO 32320

Client: Chevron / LCE-2

Address: 1712 S Prince St

City / State / Zip: CLOVIS NM 88101

Project Name / Number: DACH47-95-D-0035

Contract / Purchase Order / Quote: Dan Moore

Project Manager / Contact: Mike Landgraf

Telephone No.: 505-763-1410

Fax No.: 505-769-0780

Samplers: (Signature)

Analysis Required: TPH 8015 MOD. Direct Inject Only!; 8260 VOAS; 8270; 6010 + 7470 Metals; TCLP 1311

AAL FRACTION NUMBER	Field Sample Number / Location	Date	Time	Sample Type	Type / Size of Container	Preservation Temp.	Preservation Chemical	No. of Containers	TPH 8015 MOD. Direct Inject Only!	8260 VOAS	8270	6010 + 7470 Metals	TCLP 1311					Remarks
1A-D	CH33/7-96-1025-1406	10/25	2:06	soil	1,4oz + 3,8oz glass		ICE	4	X	X	X	X						Confirmatory site
2A	CH33/8-96-1025-1407	10/25	2:07	soil	1: 8oz glass		ICE	1					X					" Excavated material

10/25/96

Relinquished by:	Date	Received by:	Relinquished by:	Date	Received by:
Signature:	10/25/96	Signature:	Signature:	10/25/96	Signature:
Printed: Troy Mooney	Time: 2:30 PM	Printed: Elvin J. Chavez	Printed: Elvin J. Chavez	Time: 730 PM	Printed:
Company: Chevron		Company: AAL	Company: AAL		Company: AAL
Reason: Shipment		Reason:	Reason:		Reason:

Method of Shipment:

Shipment No.

Special Instructions:

Comments:

After analysis, samples are to be:

- ☐ Disposed of (additional fee)
- ☐ Stored (30 days max)
- ☐ Stored over 30 days (additional fee)
- ☐ Returned to customer

COURIER

ASSAIGAI
ANALYTICAL
LABORATORIES, INC.
7300 Jefferson, N.E. • Albuquerque, New Mexico 87109 • (505) 345-8964 • FAX (505) 345-7259
3332 Wedgewood, E-5 • El Paso, Texas 79925 • (915) 593-6000 • FAX (915) 593-7820

Report Generated:
November 29, 1996 11:32

CERTIFICATE OF ANALYSIS
RESULTS BY SAMPLE

SENT TO: CHEYENNE BUILDING CONTRACTORS
P.O. BOX 418
CLOVIS, NM 88101

ATTN: MIKE LANDGRAF

WORKORDER # : 9611064
WORK ID : DACA47-95-D-0035
CLIENT CODE : CHE10
DATE RECEIVED : 11/10/96

Lab ID: 9611064-01A
Sample ID: CAOWS/1-96-1107-1100

Collected: 11/07/96 11:00:00
Matrix: CONCRETE

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
% SOLIDS(TCLP XT)EPA 160.3	100.00	% (Percent)				
TCLP (ICP) DIG/1311/3005	11/14/96	N/A				
TCLP EXTRACTION/TCLP 1311	11/12/96	N/A				
TCLP HERB XT/SM 509B	11/19/96	N/A				
TCLP HERBICIDES/SM509B						
? 4-D	ND	mg/L	0.00010	1.1	11/21/96	THERB43
⁵-TP	ND	mg/L	0.00010	1.1	11/21/96	THERB43
T	ND	mg/L	0.00010	1.1	11/21/96	THERB43
METALS/1311/SW8466010						
Arsenic, As	ND	mg/L	0.40	1.0	11/21/96	M96123,M96131
Barium, Ba	1.2	mg/L	0.50	1.0	11/21/96	M96123,M96131
Cadmium, Cd	ND	mg/L	0.0050	1.0	11/21/96	M96123,M96131
Chromium, Cr	ND	mg/L	0.020	1.0	11/21/96	M96123,M96131
Lead, Pb	ND	mg/L	0.050	1.0	11/21/96	M96123,M96131
Mercury, Hg	ND	mg/L	0.0020	1.0	11/15/96	M96123,M96131
Selenium, Se	ND	mg/L	0.050	1.0	11/21/96	M96123,M96131
Silver, Ag	ND	mg/L	0.040	1.0	11/21/96	M96123,M96131
TCLP PEST XT/1311/3520	11/18/96	N/A				
TCLP PESTICIDES/1311/8080A						
gamma-BHC (lindane)	ND	mg/L	0.00010	1.1	11/20/96	TPEST47
Chlordane	ND	mg/L	0.00010	1.1	11/20/96	TPEST47
Endrin	ND	mg/L	0.00010	1.1	11/20/96	TPEST47
Heptachlor	ND	mg/L	0.00010	1.1	11/20/96	TPEST47
Heptachlor Epoxide	ND	mg/L	0.00010	1.1	11/20/96	TPEST47
Methoxychlor	ND	mg/L	0.00010	1.1	11/20/96	TPEST47
Toxaphene	ND	mg/L	0.00010	1.1	11/20/96	TPEST47
TCLP SV/METHOD 1311/8270B						
1,4-Dichlorobenzene	ND	mg/L	0.0010	1.9	11/16/96	TSVOA178
2-Methylphenol / O-Cresol	ND	mg/L	0.0010	1.9	11/16/96	TSVOA178
3/4-Methylphenol / M/P-Cresol	ND	mg/L	0.0010	1.9	11/16/96	TSVOA178
Hexachloroethane	ND	mg/L	0.0010	1.9	11/16/96	TSVOA178
Nitrobenzene	ND	mg/L	0.0010	1.9	11/16/96	TSVOA178
Hexachlorobutadiene	ND	mg/L	0.0010	1.9	11/16/96	TSVOA178
2,4,6-Trichlorophenol	ND	mg/L	0.010	1.9	11/16/96	TSVOA178
2,4,5-Trichlorophenol	ND	mg/L	0.010	1.9	11/16/96	TSVOA178
2,4-Dinitrotoluene	ND	mg/L	0.010	1.9	11/16/96	TSVOA178
Hexachlorobenzene	ND	mg/L	0.0010	1.9	11/16/96	TSVOA178
Pentachlorophenol	ND	mg/L	0.020	1.9	11/16/96	TSVOA178
Pyridine	ND	mg/L	0.010	1.9	11/16/96	TSVOA178
LP SVOA XT/1311/3520	11/15/96	N/A				
(CVAA)Hg XT/SW846 7471	11/14/96	N/A				

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ID: 9611064-01B **Collected:** 11/07/96 11:00:00
Sample ID: CAOWS/1-96-1107-1100 **Matrix:** CONCRETE

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
TCLP ZHE / TCLP 1311	11/14/96	N/A				
ZHE/VOA/METHOD 1311/8240B						
Vinyl Chloride	ND	mg/L	0.0050	1.0	11/21/96	TVOA269
1,1-Dichloroethene	ND	mg/L	0.0010	1.0	11/21/96	TVOA269
Chloroform	ND	mg/L	0.0010	1.0	11/21/96	TVOA269
1,2-Dichloroethane	ND	mg/L	0.0010	1.0	11/21/96	TVOA269
2-Butanone (MEK)	ND	mg/L	0.0050	1.0	11/21/96	TVOA269
Carbon Tetrachloride	ND	mg/L	0.0010	1.0	11/21/96	TVOA269
Trichloroethene	ND	mg/L	0.0010	1.0	11/21/96	TVOA269
Benzene	0.002	mg/L	0.0010	1.0	11/21/96	TVOA269
Tetrachloroethene	ND	mg/L	0.0010	1.0	11/21/96	TVOA269
Chlorobenzene	ND	mg/L	0.0010	1.0	11/21/96	TVOA269

Lab ID: 9611064-02A **Collected:** 11/07/96 14:06:00
Sample ID: CA11/7-96-1108-1406 **Matrix:** SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
Diesel Range OG Soil/M8015						
Diesel Range OG in Soil	ND	mg/Kg	50	1.0	11/19/96	SDRO007

Lab ID: 9611064-02B **Collected:** 11/07/96 14:06:00
Sample ID: CA11/7-96-1108-1406 **Matrix:** SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
VOLATILES/SW846 8260						
Dichlorodifluoromethane	ND	mg/Kg	0.010	5.0	11/20/96	SMSVOA403
Chloromethane	ND	mg/Kg	0.0050	5.0	11/20/96	SMSVOA403
Iodomethane	ND	mg/Kg	0.0050	5.0	11/20/96	SMSVOA403
Acetone	ND	mg/Kg	0.0050	5.0	11/20/96	SMSVOA403
Bromomethane	ND	mg/Kg	0.0050	5.0	11/20/96	SMSVOA403
Vinyl Chloride	ND	mg/Kg	0.0050	5.0	11/20/96	SMSVOA403
Chloroethane	ND	mg/Kg	0.0050	5.0	11/20/96	SMSVOA403
Trichlorofluoromethane	ND	mg/Kg	0.0050	5.0	11/20/96	SMSVOA403
Freon 113	ND	mg/Kg	0.0050	5.0	11/20/96	SMSVOA403
Carbon Disulfide	ND	mg/Kg	0.0050	5.0	11/20/96	SMSVOA403
Acrolein	ND	mg/Kg	0.020	5.0	11/20/96	SMSVOA403
Methylene Chloride	ND	mg/Kg	0.010	5.0	11/20/96	SMSVOA403
1,1-Dichloroethene	ND	mg/Kg	0.0010	5.0	11/20/96	SMSVOA403
1,1-Dichloroethane	ND	mg/Kg	0.0010	5.0	11/20/96	SMSVOA403
Acrylonitrile	ND	mg/Kg	0.020	5.0	11/20/96	SMSVOA403
trans-1,2-Dichloroethene	ND	mg/Kg	0.0010	5.0	11/20/96	SMSVOA403
Chloroform	ND	mg/Kg	0.0010	5.0	11/20/96	SMSVOA403
1,2-Dichloroethane	ND	mg/Kg	0.0010	5.0	11/20/96	SMSVOA403
Vinyl Acetate	ND	mg/Kg	0.0050	5.0	11/20/96	SMSVOA403
cis-1,2-Dichloroethene	ND	mg/Kg	0.0010	5.0	11/20/96	SMSVOA403
2-Butanone (MEK)	ND	mg/Kg	0.0050	5.0	11/20/96	SMSVOA403
1,1,1-Trichloroethane	ND	mg/Kg	0.0010	5.0	11/20/96	SMSVOA403
rbon Tetrachloride	ND	mg/Kg	0.0010	5.0	11/20/96	SMSVOA403
iodichloromethane	ND	mg/Kg	0.0010	5.0	11/20/96	SMSVOA403
ichloropropane	ND	mg/Kg	0.0010	5.0	11/20/96	SMSVOA403
omomethane	ND	mg/Kg	0.0010	5.0	11/20/96	SMSVOA403
trans-1,3-Dichloropropene	ND	mg/Kg	0.0010	5.0	11/20/96	SMSVOA403

ID: 9611064-02B
Sample ID: CA11/7-96-1108-1406

Collected: 11/07/96 14:06:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
VOLATILES/SW846 8260						
Trichloroethene	ND	mg/Kg	0.0010	5.0	11/20/96	SMSVOA403
Chlorodibromomethane	ND	mg/Kg	0.0010	5.0	11/20/96	SMSVOA403
Ethyl Methacrylate	ND	mg/Kg	0.0050	5.0	11/20/96	SMSVOA403
2-Chloroethylvinyl Ether	ND	mg/Kg	0.0050	5.0	11/20/96	SMSVOA403
1,1,2-Trichloroethane	ND	mg/Kg	0.0010	5.0	11/20/96	SMSVOA403
Benzene	ND	mg/Kg	0.0010	5.0	11/20/96	SMSVOA403
cis-1,3-Dichloropropene	ND	mg/Kg	0.0010	5.0	11/20/96	SMSVOA403
Bromoform	ND	mg/Kg	0.0010	5.0	11/20/96	SMSVOA403
4-Methyl-2-Pentanone (MIBK)	ND	mg/Kg	0.0050	5.0	11/20/96	SMSVOA403
Tetrachloroethene	ND	mg/Kg	0.0010	5.0	11/20/96	SMSVOA403
1,1,2,2-Tetrachloroethane	ND	mg/Kg	0.0010	5.0	11/20/96	SMSVOA403
1,2-Dibromoethane	ND	mg/Kg	0.0010	5.0	11/20/96	SMSVOA403
2-Hexanone (MBK)	ND	mg/Kg	0.0050	5.0	11/20/96	SMSVOA403
1,1,1,2-Tetrachloroethane	ND	mg/Kg	0.0010	5.0	11/20/96	SMSVOA403
Toluene	ND	mg/Kg	0.0010	5.0	11/20/96	SMSVOA403
Chlorobenzene	ND	mg/Kg	0.0010	5.0	11/20/96	SMSVOA403
Ethylbenzene	ND	mg/Kg	0.0010	5.0	11/20/96	SMSVOA403
1,4-Dichloro-2-Butene	ND	mg/Kg	0.010	5.0	11/20/96	SMSVOA403
Styrene	ND	mg/Kg	0.0010	5.0	11/20/96	SMSVOA403
P/M Xylene	ND	mg/Kg	0.0020	5.0	11/20/96	SMSVOA403
O-Xylene	ND	mg/Kg	0.0010	5.0	11/20/96	SMSVOA403
1,2,3-Trichloropropane	ND	mg/Kg	0.0010	5.0	11/20/96	SMSVOA403
Methyl-tert Butyl Ether	ND	mg/Kg	0.010	5.0	11/20/96	SMSVOA403
2-Dichlorobenzene	ND	mg/Kg	0.0010	5.0	11/20/96	SMSVOA403
Dichlorobenzene	ND	mg/Kg	0.0010	5.0	11/20/96	SMSVOA403
ichlorobenzene	ND	mg/Kg	0.0010	5.0	11/20/96	SMSVOA403

Lab ID: 9611064-02C
Sample ID: CA11/7-96-1108-1406

Collected: 11/07/96 14:06:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
SVOA(SOX) Soil/SW846 8270B	11/18/96	N/A				
n-Nitrosodimethylamine	ND	mg/Kg	1.0	1.8	11/20/96	SMSSVOA129
Pyridine	ND	mg/Kg	10	1.8	11/20/96	SMSSVOA129
Aniline	ND	mg/Kg	10	1.8	11/20/96	SMSSVOA129
bis(2-Chloroethyl) Ether	ND	mg/Kg	0.50	1.8	11/20/96	SMSSVOA129
2-Chlorophenol	ND	mg/Kg	0.50	1.8	11/20/96	SMSSVOA129
1,3-Dichlorobenzene	ND	mg/Kg	0.50	1.8	11/20/96	SMSSVOA129
1,4-Dichlorobenzene	ND	mg/Kg	0.50	1.8	11/20/96	SMSSVOA129
Phenol	ND	mg/Kg	0.50	1.8	11/20/96	SMSSVOA129
1,2-Dichlorobenzene	ND	mg/Kg	0.50	1.8	11/20/96	SMSSVOA129
Benzyl Alcohol	ND	mg/Kg	10	1.8	11/20/96	SMSSVOA129
bis(2-Chloroisopropyl) Ether	ND	mg/Kg	1.0	1.8	11/20/96	SMSSVOA129
2-Methylphenol / O-Cresol	ND	mg/Kg	0.50	1.8	11/20/96	SMSSVOA129
Hexachloroethane	ND	mg/Kg	0.50	1.8	11/20/96	SMSSVOA129
n-Nitroso-di-n-propylamine	ND	mg/Kg	0.50	1.8	11/20/96	SMSSVOA129
Nitrobenzene	ND	mg/Kg	0.50	1.8	11/20/96	SMSSVOA129
3/4 Methylphenol / M/P-Cresol	ND	mg/Kg	0.50	1.8	11/20/96	SMSSVOA129
Isophorone	ND	mg/Kg	0.50	1.8	11/20/96	SMSSVOA129
2-Nitrophenol	ND	mg/Kg	1.0	1.8	11/20/96	SMSSVOA129
bis(2-Chloroethoxy) Methane	ND	mg/Kg	0.50	1.8	11/20/96	SMSSVOA129
4-Dimethylphenol	ND	mg/Kg	1.0	1.8	11/20/96	SMSSVOA129
4-Trichlorobenzene	ND	mg/Kg	0.50	1.8	11/20/96	SMSSVOA129
halene	ND	mg/Kg	0.50	1.8	11/20/96	SMSSVOA129
ic Acid	ND	mg/Kg	10	1.8	11/20/96	SMSSVOA129
2,4-Dichlorophenol	ND	mg/Kg	1.0	1.8	11/20/96	SMSSVOA129
4-Chloroaniline	ND	mg/Kg	10	1.8	11/20/96	SMSSVOA129

.D: 9611064-02C
Sample ID: CA11/7-96-1108-1406

Collected: 11/07/96 14:06:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
SVOA(SOX) Soil/SW846 8270B						
Hexachlorobutadiene	ND	mg/Kg	0.50	1.8	11/20/96	SMSSVOA129
2-Methylnaphthalene	ND	mg/Kg	0.50	1.8	11/20/96	SMSSVOA129
4-Chloro-3-methylphenol	ND	mg/Kg	0.50	1.8	11/20/96	SMSSVOA129
Hexachlorocyclopentadiene	ND	mg/Kg	10	1.8	11/20/96	SMSSVOA129
2,4,6-Trichlorophenol	ND	mg/Kg	1.0	1.8	11/20/96	SMSSVOA129
2,4,5-Trichlorophenol	ND	mg/Kg	1.0	1.8	11/20/96	SMSSVOA129
2-Chloronaphthalene	ND	mg/Kg	0.50	1.8	11/20/96	SMSSVOA129
2-Nitroaniline	ND	mg/Kg	1.0	1.8	11/20/96	SMSSVOA129
Acenaphthylene	ND	mg/Kg	0.50	1.8	11/20/96	SMSSVOA129
Dimethylphthalate	ND	mg/Kg	0.50	1.8	11/20/96	SMSSVOA129
2,6-Dinitrotoluene	ND	mg/Kg	1.0	1.8	11/20/96	SMSSVOA129
Acenaphthene	ND	mg/Kg	0.50	1.8	11/20/96	SMSSVOA129
3-Nitroaniline	ND	mg/Kg	10	1.8	11/20/96	SMSSVOA129
Dibenzofuran	ND	mg/Kg	0.50	1.8	11/20/96	SMSSVOA129
2,4-Dinitrotoluene	ND	mg/Kg	2.5	1.8	11/20/96	SMSSVOA129
Fluorene	ND	mg/Kg	0.50	1.8	11/20/96	SMSSVOA129
4-Chlorophenyl-phenylether	ND	mg/Kg	0.50	1.8	11/20/96	SMSSVOA129
Diethylphthalate	ND	mg/Kg	0.50	1.8	11/20/96	SMSSVOA129
4-Nitrophenol	ND	mg/Kg	10	1.8	11/20/96	SMSSVOA129
4,6-Dinitro-2-methylphenol	ND	mg/Kg	10	1.8	11/20/96	SMSSVOA129
n-Nitrosodiphenylamine	ND	mg/Kg	0.50	1.8	11/20/96	SMSSVOA129
4-Nitroaniline	ND	mg/Kg	10	1.8	11/20/96	SMSSVOA129
4-Bromophenyl-phenylether	ND	mg/Kg	0.50	1.8	11/20/96	SMSSVOA129
Hexachlorobenzene	ND	mg/Kg	0.50	1.8	11/20/96	SMSSVOA129
chlorophenol	ND	mg/Kg	10	1.8	11/20/96	SMSSVOA129
nitrophenol	ND	mg/Kg	10	1.8	11/20/96	SMSSVOA129
anthrene	ND	mg/Kg	0.50	1.8	11/20/96	SMSSVOA129
Anthracene	ND	mg/Kg	0.50	1.8	11/20/96	SMSSVOA129
Di-n-butylphthalate	ND	mg/Kg	5.0	1.8	11/20/96	SMSSVOA129
Fluoranthene	ND	mg/Kg	0.50	1.8	11/20/96	SMSSVOA129
Pyrene	ND	mg/Kg	0.50	1.8	11/20/96	SMSSVOA129
Butylbenzylphthalate	ND	mg/Kg	0.50	1.8	11/20/96	SMSSVOA129
Benzo(a)anthracene	ND	mg/Kg	0.50	1.8	11/20/96	SMSSVOA129
Chrysene	ND	mg/Kg	0.50	1.8	11/20/96	SMSSVOA129
3,3'-Dichlorobenzidine	ND	mg/Kg	10	1.8	11/20/96	SMSSVOA129
bis(2-Ethylhexyl)phthalate	ND	mg/Kg	2.5	1.8	11/20/96	SMSSVOA129
Di-n-octyl phthalate	ND	mg/Kg	0.50	1.8	11/20/96	SMSSVOA129
Benzo(b)+(k)fluoranthene	ND	mg/Kg	0.50	1.8	11/20/96	SMSSVOA129
1-Methylnaphthalene	ND	mg/Kg	1.0	1.8	11/20/96	SMSSVOA129
Benzo(a)pyrene	ND	mg/Kg	0.50	1.8	11/20/96	SMSSVOA129
Indeno(1,2,3-cd)pyrene	ND	mg/Kg	1.0	1.8	11/20/96	SMSSVOA129
Benzo(g,h,i)perylene	ND	mg/Kg	1.0	1.8	11/20/96	SMSSVOA129
2,3,4,6-Tetrachlorophenol	ND	mg/Kg	2.5	1.8	11/20/96	SMSSVOA129
Azobenzene	ND	mg/Kg	1.0	1.8	11/20/96	SMSSVOA129
Dibenz(a,h)anthracene	ND	mg/Kg	1.0	1.8	11/20/96	SMSSVOA129

Lab ID: 9611064-02D
Sample ID: CA11/7-96-1108-1406

Collected: 11/07/96 14:06:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
% SOLIDS(TCLP XT)EPA 160.3	100.00	% (Percent)				
M-l(ICP) DIG /SW846 3050	11/11/96	N/A				
LS-ICP/SW846 6010						
. Ag	ND	mg/Kg	1.0	1.0	11/13/96	M96118
inum, Al	NT	mg/Kg	25			M96118
Arsenic, As	ND	mg/Kg	3.0	1.0	11/22/96	M96118
Barium, Ba	456	mg/Kg	0.50	1.0	11/13/96	M96118

ID: 9611064-02D **Collected:** 11/07/96 14:06:00
Sample ID: CA11/7-96-1108-1406 **Matrix:** SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
METALS-ICP/SW846 6010						
Beryllium, Be	NT	mg/Kg	0.50			M96118
Calcium, Ca	NT	mg/Kg	15			M96118
Cadmium, Cd	ND	mg/Kg	0.20	1.0	11/13/96	M96118
Cobalt, Co	NT	mg/Kg	0.50			M96118
Chromium, Cr	5.4	mg/Kg	1.0	1.0	11/13/96	M96118
Copper, Cu	NT	mg/Kg	0.50			M96118
Iron, Fe	NT	mg/Kg	15			M96118
Potassium, K	NT	mg/Kg	10			M96118
Magnesium, Mg	NT	mg/Kg	10			M96118
Manganese, Mn	NT	mg/Kg	0.25			M96118
Sodium, Na	NT	mg/Kg	15			M96118
Nickel, Ni	6.6	mg/Kg	2.0	1.0	11/13/96	M96118
Lead, Pb	7.6	mg/Kg	2.0	1.0	11/13/96	M96118
Antimony, Sb	NT	mg/Kg	1.5			M96118
Selenium, Se	ND	mg/Kg	2.5	1.0	11/13/96	M96118
Vanadium, V	NT	mg/Kg	0.15			M96118
Zinc, Zn	NT	mg/Kg	5.0			M96118
TCLP (ICP) DIG/1311/3005	11/15/96	N/A				
TCLP EXTRACTION/TCLP 1311	11/12/96	N/A				
TCLP METALS/1311/SW8466010						
Arsenic, As	ND	mg/L	0.40	1.0	11/21/96	M96131,M96123
Barium, Ba	1.8	mg/L	0.50	1.0	11/21/96	M96131,M96123
Cadmium, Cd	ND	mg/L	0.0050	1.0	11/21/96	M96131,M96123
Chromium, Cr	ND	mg/L	0.020	1.0	11/21/96	M96131,M96123
Pb	ND	mg/L	0.050	1.0	11/21/96	M96131,M96123
ıry, Hg	ND	mg/L	0.0020	1.0	11/15/96	M96131,M96123
..ium, Se	ND	mg/L	0.050	1.0	11/21/96	M96131,M96123
Silver, Ag	ND	mg/L	0.040	1.0	11/21/96	M96131,M96123
TCLP(CVAA)Hg XT/SW846 7471	11/14/96	N/A				

Lab ID: 9611064-03A **Collected:** 11/07/96 14:07:00
Sample ID: CA11/8-96-1107-1407 **Matrix:** SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
% SOLIDS(TCLP XT)EPA 160.3	100.00	% (Percent)				
Diesel Range OG Soil/M8015						
Diesel Range OG in Soil	ND	mg/Kg	50	5.0	11/22/96	SDRO007
TCLP (ICP) DIG/1311/3005	11/15/96	N/A				
TCLP EXTRACTION/TCLP 1311	11/12/96	N/A				
TCLP METALS/1311/SW8466010						
Arsenic, As	ND	mg/L	0.40	1.0	11/21/96	M96131,M96123
Barium, Ba	0.9	mg/L	0.50	1.0	11/21/96	M96131,M96123
Cadmium, Cd	ND	mg/L	0.0050	1.0	11/21/96	M96131,M96123
Chromium, Cr	ND	mg/L	0.020	1.0	11/21/96	M96131,M96123
Lead, Pb	ND	mg/L	0.050	1.0	11/21/96	M96131,M96123
Mercury, Hg	ND	mg/L	0.0020	1.0	11/15/96	M96131,M96123
Selenium, Se	ND	mg/L	0.050	1.0	11/21/96	M96131,M96123
Silver, Ag	ND	mg/L	0.040	1.0	11/21/96	M96131,M96123
TCLP(CVAA)Hg XT/SW846 7471	11/14/96	N/A				

.D: 9611064-03B
Sample ID: CA11/8-96-1107-1407

Collected: 11/07/96 14:07:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
BTEX/SW846 8020A						
Benzene	ND	mg/Kg	0.0010	5.0	11/20/96	SMSVOA403
Toluene	ND	mg/Kg	0.0010	5.0	11/20/96	SMSVOA403
Ethylbenzene	ND	mg/Kg	0.0010	5.0	11/20/96	SMSVOA403
P-&m-Xylene	ND	mg/Kg	0.0010	5.0	11/20/96	SMSVOA403
O-Xylene	ND	mg/Kg	0.0010	5.0	11/20/96	SMSVOA403

Lab ID: 9611064-04A
Sample ID: CA7/7-96-1107-1506

Collected: 11/07/96 15:06:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
Diesel Range OG Soil/M8015						
Diesel Range OG in Soil	ND	mg/Kg	50	1.0	11/19/96	SDRO007

Lab ID: 9611064-04B
Sample ID: CA7/7-96-1107-1506

Collected: 11/07/96 15:06:00
Matrix: SOIL

/ METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
VOLATILES/SW846 8260						
Dichlorodifluoromethane	ND	mg/Kg	0.010	5.0	11/20/96	SMSVOA403
Chloromethane	ND	mg/Kg	0.0050	5.0	11/20/96	SMSVOA403
Iodomethane	ND	mg/Kg	0.0050	5.0	11/20/96	SMSVOA403
Acetone	ND	mg/Kg	0.0050	5.0	11/20/96	SMSVOA403
Bromomethane	ND	mg/Kg	0.0050	5.0	11/20/96	SMSVOA403
Vinyl Chloride	ND	mg/Kg	0.0050	5.0	11/20/96	SMSVOA403
Chloroethane	ND	mg/Kg	0.0050	5.0	11/20/96	SMSVOA403
Trichlorofluoromethane	ND	mg/Kg	0.0050	5.0	11/20/96	SMSVOA403
Freon 113	ND	mg/Kg	0.0050	5.0	11/20/96	SMSVOA403
Carbon Disulfide	ND	mg/Kg	0.0050	5.0	11/20/96	SMSVOA403
Acrolein	ND	mg/Kg	0.020	5.0	11/20/96	SMSVOA403
Methylene Chloride	ND	mg/Kg	0.010	5.0	11/20/96	SMSVOA403
1,1-Dichloroethene	ND	mg/Kg	0.0010	5.0	11/20/96	SMSVOA403
1,1-Dichloroethane	ND	mg/Kg	0.0010	5.0	11/20/96	SMSVOA403
Acrylonitrile	ND	mg/Kg	0.020	5.0	11/20/96	SMSVOA403
trans-1,2-Dichloroethene	ND	mg/Kg	0.0010	5.0	11/20/96	SMSVOA403
Chloroform	ND	mg/Kg	0.0010	5.0	11/20/96	SMSVOA403
1,2-Dichloroethane	ND	mg/Kg	0.0010	5.0	11/20/96	SMSVOA403
Vinyl Acetate	ND	mg/Kg	0.0050	5.0	11/20/96	SMSVOA403
cis-1,2-Dichloroethene	ND	mg/Kg	0.0010	5.0	11/20/96	SMSVOA403
2-Butanone (MEK)	ND	mg/Kg	0.0050	5.0	11/20/96	SMSVOA403
1,1,1-Trichloroethane	ND	mg/Kg	0.0010	5.0	11/20/96	SMSVOA403
Carbon Tetrachloride	ND	mg/Kg	0.0010	5.0	11/20/96	SMSVOA403
Bromodichloromethane	ND	mg/Kg	0.0010	5.0	11/20/96	SMSVOA403
1,2-Dichloropropane	ND	mg/Kg	0.0010	5.0	11/20/96	SMSVOA403
Dibromomethane	ND	mg/Kg	0.0010	5.0	11/20/96	SMSVOA403
trans-1,3-Dichloropropene	ND	mg/Kg	0.0010	5.0	11/20/96	SMSVOA403
ichloroethene	ND	mg/Kg	0.0010	5.0	11/20/96	SMSVOA403
orodibromomethane	ND	mg/Kg	0.0010	5.0	11/20/96	SMSVOA403
Methacrylate	ND	mg/Kg	0.0050	5.0	11/20/96	SMSVOA403
roethylvinyl Ether	ND	mg/Kg	0.0050	5.0	11/20/96	SMSVOA403
1,1,2-Trichloroethane	ND	mg/Kg	0.0010	5.0	11/20/96	SMSVOA403
Benzene	ND	mg/Kg	0.0010	5.0	11/20/96	SMSVOA403

ID: 9611064-04B **Collected:** 11/07/96 15:06:00
Sample ID: CA7/7-96-1107-1506 **Matrix:** SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
VOLATILES/SW846 8260						
cis-1,3-Dichloropropene	ND	mg/Kg	0.0010	5.0	11/20/96	SMSVOA403
Bromoform	ND	mg/Kg	0.0010	5.0	11/20/96	SMSVOA403
4-Methyl-2-Pentanone (MIBK)	ND	mg/Kg	0.0050	5.0	11/20/96	SMSVOA403
Tetrachloroethene	ND	mg/Kg	0.0010	5.0	11/20/96	SMSVOA403
1,1,2,2-Tetrachloroethane	ND	mg/Kg	0.0010	5.0	11/20/96	SMSVOA403
1,2-Dibromoethane	ND	mg/Kg	0.0010	5.0	11/20/96	SMSVOA403
2-Hexanone (MBK)	ND	mg/Kg	0.0050	5.0	11/20/96	SMSVOA403
1,1,1,2-Tetrachloroethane	ND	mg/Kg	0.0010	5.0	11/20/96	SMSVOA403
Toluene	ND	mg/Kg	0.0010	5.0	11/20/96	SMSVOA403
Chlorobenzene	ND	mg/Kg	0.0010	5.0	11/20/96	SMSVOA403
Ethylbenzene	ND	mg/Kg	0.0010	5.0	11/20/96	SMSVOA403
1,4-Dichloro-2-Butene	ND	mg/Kg	0.010	5.0	11/20/96	SMSVOA403
Styrene	ND	mg/Kg	0.0010	5.0	11/20/96	SMSVOA403
P/M Xylene	ND	mg/Kg	0.0020	5.0	11/20/96	SMSVOA403
O-Xylene	ND	mg/Kg	0.0010	5.0	11/20/96	SMSVOA403
1,2,3-Trichloropropane	ND	mg/Kg	0.0010	5.0	11/20/96	SMSVOA403
Methyl-tert Butyl Ether	ND	mg/Kg	0.010	5.0	11/20/96	SMSVOA403
1,2-Dichlorobenzene	ND	mg/Kg	0.0010	5.0	11/20/96	SMSVOA403
1,3-Dichlorobenzene	ND	mg/Kg	0.0010	5.0	11/20/96	SMSVOA403
1,4-Dichlorobenzene	ND	mg/Kg	0.0010	5.0	11/20/96	SMSVOA403

Lab ID: 9611064-04C **Collected:** 11/07/96 15:06:00
Sample ID: CA7/7-96-1107-1506 **Matrix:** SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
SVOA(SOX) Soil/SW846 8270B	11/18/96	N/A				
n-Nitrosodimethylamine	ND	mg/Kg	1.0	1.9	11/20/96	SMSSVOA129
Pyridine	ND	mg/Kg	10	1.9	11/20/96	SMSSVOA129
Aniline	ND	mg/Kg	10	1.9	11/20/96	SMSSVOA129
bis(2-Chloroethyl) Ether	ND	mg/Kg	0.50	1.9	11/20/96	SMSSVOA129
2-Chlorophenol	ND	mg/Kg	0.50	1.9	11/20/96	SMSSVOA129
1,3-Dichlorobenzene	ND	mg/Kg	0.50	1.9	11/20/96	SMSSVOA129
1,4-Dichlorobenzene	ND	mg/Kg	0.50	1.9	11/20/96	SMSSVOA129
Phenol	ND	mg/Kg	0.50	1.9	11/20/96	SMSSVOA129
1,2-Dichlorobenzene	ND	mg/Kg	0.50	1.9	11/20/96	SMSSVOA129
Benzyl Alcohol	ND	mg/Kg	10	1.9	11/20/96	SMSSVOA129
bis(2-Chloroisopropyl) Ether	ND	mg/Kg	1.0	1.9	11/20/96	SMSSVOA129
2-Methylphenol / O-Cresol	ND	mg/Kg	0.50	1.9	11/20/96	SMSSVOA129
Hexachloroethane	ND	mg/Kg	0.50	1.9	11/20/96	SMSSVOA129
n-Nitroso-di-n-propylamine	ND	mg/Kg	0.50	1.9	11/20/96	SMSSVOA129
Nitrobenzene	ND	mg/Kg	0.50	1.9	11/20/96	SMSSVOA129
3/4 Methylphenol / M/P-Cresol	ND	mg/Kg	0.50	1.9	11/20/96	SMSSVOA129
Isophorone	ND	mg/Kg	0.50	1.9	11/20/96	SMSSVOA129
2-Nitrophenol	ND	mg/Kg	1.0	1.9	11/20/96	SMSSVOA129
bis(2-Chloroethoxy) Methane	ND	mg/Kg	0.50	1.9	11/20/96	SMSSVOA129
2,4-Dimethylphenol	ND	mg/Kg	1.0	1.9	11/20/96	SMSSVOA129
1,2,4-Trichlorobenzene	ND	mg/Kg	0.50	1.9	11/20/96	SMSSVOA129
Naphthalene	ND	mg/Kg	0.50	1.9	11/20/96	SMSSVOA129
Benzoic Acid	ND	mg/Kg	10	1.9	11/20/96	SMSSVOA129
2,4-Dichlorophenol	ND	mg/Kg	1.0	1.9	11/20/96	SMSSVOA129
4-Chloroaniline	ND	mg/Kg	10	1.9	11/20/96	SMSSVOA129
Hexachlorobutadiene	ND	mg/Kg	0.50	1.9	11/20/96	SMSSVOA129
Methylnaphthalene	ND	mg/Kg	0.50	1.9	11/20/96	SMSSVOA129
Chloro-3-methylphenol	ND	mg/Kg	0.50	1.9	11/20/96	SMSSVOA129
Hexachlorocyclopentadiene	ND	mg/Kg	10	1.9	11/20/96	SMSSVOA129
2,4,6-Trichlorophenol	ND	mg/Kg	1.0	1.9	11/20/96	SMSSVOA129
2,4,5-Trichlorophenol	ND	mg/Kg	1.0	1.9	11/20/96	SMSSVOA129

ID: 9611064-04C **Collected:** 11/07/96 15:06:00
Sample ID: CA7/7-96-1107-1506 **Matrix:** SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
SVOA(SOX) Soil/SW846 8270B						
2-Chloronaphthalene	ND	mg/Kg	0.50	1.9	11/20/96	SMSSVOA129
2-Nitroaniline	ND	mg/Kg	1.0	1.9	11/20/96	SMSSVOA129
Acenaphthylene	ND	mg/Kg	0.50	1.9	11/20/96	SMSSVOA129
Dimethylphthalate	ND	mg/Kg	0.50	1.9	11/20/96	SMSSVOA129
2,6-Dinitrotoluene	ND	mg/Kg	1.0	1.9	11/20/96	SMSSVOA129
Acenaphthene	ND	mg/Kg	0.50	1.9	11/20/96	SMSSVOA129
3-Nitroaniline	ND	mg/Kg	10	1.9	11/20/96	SMSSVOA129
Dibenzofuran	ND	mg/Kg	0.50	1.9	11/20/96	SMSSVOA129
2,4-Dinitrotoluene	ND	mg/Kg	2.5	1.9	11/20/96	SMSSVOA129
Fluorene	ND	mg/Kg	0.50	1.9	11/20/96	SMSSVOA129
4-Chlorophenyl-phenylether	ND	mg/Kg	0.50	1.9	11/20/96	SMSSVOA129
Diethylphthalate	ND	mg/Kg	0.50	1.9	11/20/96	SMSSVOA129
4-Nitrophenol	ND	mg/Kg	10	1.9	11/20/96	SMSSVOA129
4,6-Dinitro-2-methylphenol	ND	mg/Kg	10	1.9	11/20/96	SMSSVOA129
n-Nitrosodiphenylamine	ND	mg/Kg	0.50	1.9	11/20/96	SMSSVOA129
4-Nitroaniline	ND	mg/Kg	10	1.9	11/20/96	SMSSVOA129
4-Bromophenyl-phenylether	ND	mg/Kg	0.50	1.9	11/20/96	SMSSVOA129
Hexachlorobenzene	ND	mg/Kg	0.50	1.9	11/20/96	SMSSVOA129
Pentachlorophenol	ND	mg/Kg	10	1.9	11/20/96	SMSSVOA129
2,4-Dinitrophenol	ND	mg/Kg	10	1.9	11/20/96	SMSSVOA129
Phenanthrene	ND	mg/Kg	0.50	1.9	11/20/96	SMSSVOA129
Anthracene	ND	mg/Kg	0.50	1.9	11/20/96	SMSSVOA129
Di-n-butylphthalate	10	mg/Kg	5.0	1.9	11/20/96	SMSSVOA129
Fluoranthene	ND	mg/Kg	0.50	1.9	11/20/96	SMSSVOA129
[illegible]	ND	mg/Kg	0.50	1.9	11/20/96	SMSSVOA129
[illegible]enzylphthalate	ND	mg/Kg	0.50	1.9	11/20/96	SMSSVOA129
[illegible]o(a)anthracene	ND	mg/Kg	0.50	1.9	11/20/96	SMSSVOA129
Chrysene	ND	mg/Kg	0.50	1.9	11/20/96	SMSSVOA129
3,3'-Dichlorobenzidine	ND	mg/Kg	10	1.9	11/20/96	SMSSVOA129
bis(2-Ethylhexyl)phthalate	ND	mg/Kg	2.5	1.9	11/20/96	SMSSVOA129
Di-n-octyl phthalate	ND	mg/Kg	0.50	1.9	11/20/96	SMSSVOA129
Benzo(b)+(k)fluoranthene	ND	mg/Kg	0.50	1.9	11/20/96	SMSSVOA129
1-Methylnaphthalene	ND	mg/Kg	1.0	1.9	11/20/96	SMSSVOA129
Benzo(a)pyrene	ND	mg/Kg	0.50	1.9	11/20/96	SMSSVOA129
Indeno(1,2,3-cd)pyrene	ND	mg/Kg	1.0	1.9	11/20/96	SMSSVOA129
Benzo(g,h,i)perylene	ND	mg/Kg	1.0	1.9	11/20/96	SMSSVOA129
2,3,4,6-Tetrachlorophenol	ND	mg/Kg	2.5	1.9	11/20/96	SMSSVOA129
Azobenzene	ND	mg/Kg	1.0	1.9	11/20/96	SMSSVOA129
Dibenz(a,h)anthracene	ND	mg/Kg	1.0	1.9	11/20/96	SMSSVOA129

Lab ID: 9611064-04D **Collected:** 11/07/96 15:06:00
Sample ID: CA7/7-96-1107-1506 **Matrix:** SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
% SOLIDS(TCLP XT)EPA 160.3	100.00	% (Percent)				
Metal(ICP) DIG /SW846 3050	11/11/96	N/A				
METALS-ICP/SW846 6010						
Silver, Ag	ND	mg/Kg	1.0	1.0	11/13/96	M96118
Aluminum, Al	NT	mg/Kg	25			M96118
Arsenic, As	ND	mg/Kg	3.0	1.0	11/22/96	M96118
Barium, Ba	215	mg/Kg	0.50	1.0	11/13/96	M96118
[illegible]yllium, Be	NT	mg/Kg	0.50			M96118
[illegible]um, Ca	NT	mg/Kg	15			M96118
[illegible]um, Cd	ND	mg/Kg	0.20	1.0	11/13/96	M96118
[illegible]t, Co	NT	mg/Kg	0.50			M96118
Chromium, Cr	6.8	mg/Kg	1.0	1.0	11/13/96	M96118
Copper, Cu	NT	mg/Kg	0.50			M96118

ıD: 9611064-04D **Collected:** 11/07/96 15:06:00
Sample ID: CA7/7-96-1107-1506 **Matrix:** SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
METALS-ICP/SW846 6010						
Iron, Fe	NT	mg/Kg	15			M96118
Potassium, K	NT	mg/Kg	10			M96118
Magnesium, Mg	NT	mg/Kg	10			M96118
Manganese, Mn	NT	mg/Kg	0.25			M96118
Sodium, Na	NT	mg/Kg	15			M96118
Nickel, Ni	8.4	mg/Kg	2.0	1.0	11/13/96	M96118
Lead, Pb	6.7	mg/Kg	2.0	1.0	11/13/96	M96118
Antimony, Sb	NT	mg/Kg	1.5			M96118
Selenium, Se	ND	mg/Kg	2.5	1.0	11/13/96	M96118
Vanadium, V	NT	mg/Kg	0.15			M96118
Zinc, Zn	NT	mg/Kg	5.0			M96118
TCLP (ICP) DIG/1311/3005	11/15/96	N/A				
TCLP EXTRACTION/TCLP 1311	11/12/96	N/A				
TCLP METALS/1311/SW8466010						
Arsenic, As	ND	mg/L	0.40	1.0	11/21/96	M96131,M96123
Barium, Ba	0.7	mg/L	0.50	1.0	11/21/96	M96131,M96123
Cadmium, Cd	ND	mg/L	0.0050	1.0	11/21/96	M96131,M96123
Chromium, Cr	0.04	mg/L	0.020	1.0	11/21/96	M96131,M96123
Lead, Pb	ND	mg/L	0.050	1.0	11/21/96	M96131,M96123
Mercury, Hg	ND	mg/L	0.0020	1.0	11/15/96	M96131,M96123
Selenium, Se	ND	mg/L	0.050	1.0	11/21/96	M96131,M96123
Silver, Ag	ND	mg/L	0.040	1.0	11/21/96	M96131,M96123
TCLP(CVAA)Hg XT/SW846 7471	11/14/96	N/A				

L ıD: 9611064-05A **Collected:** 11/07/96 15:03:00
Sample ID: CA7/4-96-1107-1503 **Matrix:** SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
BTEX/SW846 8020A						
Benzene	ND	mg/Kg	0.0010	5.0	11/20/96	SMSVOA403
Toluene	ND	mg/Kg	0.0010	5.0	11/20/96	SMSVOA403
Ethylbenzene	ND	mg/Kg	0.0010	5.0	11/20/96	SMSVOA403
P-&m-Xylene	ND	mg/Kg	0.0010	5.0	11/20/96	SMSVOA403
O-Xylene	ND	mg/Kg	0.0010	5.0	11/20/96	SMSVOA403
Diesel Range OG Soil/M8015						
Diesel Range OG in Soil	ND	mg/Kg	50	1.0	11/19/96	SDRO007

Lab ID: 9611064-06A **Collected:** 11/07/96 15:07:00
Sample ID: CA7/8-96-1107-1507 **Matrix:** SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
% SOLIDS(TCLP XT)EPA 160.3	100.00	% (Percent)				
Diesel Range OG Soil/M8015						
Diesel Range OG in Soil	ND	mg/Kg	50	1.0	11/19/96	SDRO007
TCLP (ICP) DIG/1311/3005	11/15/96	N/A				
P EXTRACTION/TCLP 1311	11/12/96	N/A				
D METALS/1311/SW8466010						
ic, As	ND	mg/L	0.40	1.0	11/21/96	M96123,M96131
n, Ba	ND	mg/L	0.50	1.0	11/21/96	M96123,M96131
nium, Cd	1.78	mg/L	0.0050	1.0	11/21/96	M96123,M96131
Chromium, Cr	ND	mg/L	0.020	1.0	11/21/96	M96123,M96131

ID: 9611064-06A **Collected:** 11/07/96 15:07:00
Sample ID: CA7/8-96-1107-1507 **Matrix:** SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
TCLP METALS/1311/SW8466010						
Lead, Pb	24.5	mg/L	0.050	1.0	11/21/96	M96123,M96131
Mercury, Hg	ND	mg/L	0.0020	1.0	11/15/96	M96123,M96131
Selenium, Se	ND	mg/L	0.050	1.0	11/21/96	M96123,M96131
Silver, Ag	ND	mg/L	0.040	1.0	11/21/96	M96123,M96131
TCLP(CVAA)Hg XT/SW846 7471	11/14/96	N/A				

Lab ID: 9611064-06B **Collected:** 11/07/96 15:07:00
Sample ID: CA7/8-96-1107-1507 **Matrix:** SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
BTEX/SW846 8020A						
Benzene	ND	mg/Kg	0.0010	5.0	11/20/96	SMSVOA403
Toluene	ND	mg/Kg	0.0010	5.0	11/20/96	SMSVOA403
Ethylbenzene	ND	mg/Kg	0.0010	5.0	11/20/96	SMSVOA403
P-&m-Xylene	ND	mg/Kg	0.0010	5.0	11/20/96	SMSVOA403
O-Xylene	ND	mg/Kg	0.0010	5.0	11/20/96	SMSVOA403

D: 9611064-07A **Collected:** 11/07/96 15:05:00
S. ple ID: CA7/6-96-1107-1505 **Matrix:** SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
BTEX/SW846 8020A						
Benzene	ND	mg/Kg	0.0010	5.0	11/20/96	SMSVOA403
Toluene	ND	mg/Kg	0.0010	5.0	11/20/96	SMSVOA403
Ethylbenzene	ND	mg/Kg	0.0010	5.0	11/20/96	SMSVOA403
P-&m-Xylene	ND	mg/Kg	0.0010	5.0	11/20/96	SMSVOA403
O-Xylene	ND	mg/Kg	0.0010	5.0	11/20/96	SMSVOA403
Diesel Range OG Soil/M8015						
Diesel Range OG in Soil	ND	mg/Kg	50	1.0	11/19/96	SDRO007

Lab ID: 9611064-08A **Collected:** 11/07/96 14:03:00
Sample ID: CA11/4-96-1107-1403 **Matrix:** SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
BTEX/SW846 8020A						
Benzene	ND	mg/Kg	0.0010	5.0	11/20/96	SMSVOA403
Toluene	ND	mg/Kg	0.0010	5.0	11/20/96	SMSVOA403
Ethylbenzene	ND	mg/Kg	0.0010	5.0	11/20/96	SMSVOA403
P-&m-Xylene	ND	mg/Kg	0.0010	5.0	11/20/96	SMSVOA403
O Xylene	ND	mg/Kg	0.0010	5.0	11/20/96	SMSVOA403
l Range OG Soil/M8015						
' Range OG in Soil	ND	mg/Kg	50	1.0	11/19/96	SDRO007

ID: 9611064-09A
Sample ID: CA11/5-96-1107-1404

Collected: 11/07/96 14:04:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
BTEX/SW846 8020A						
Benzene	ND	mg/Kg	0.0010	5.0	11/20/96	SMSVOA403
Toluene	ND	mg/Kg	0.0010	5.0	11/20/96	SMSVOA403
Ethylbenzene	ND	mg/Kg	0.0010	5.0	11/20/96	SMSVOA403
P-&m-Xylene	ND	mg/Kg	0.0010	5.0	11/20/96	SMSVOA403
O-Xylene	ND	mg/Kg	0.0010	5.0	11/20/96	SMSVOA403
Diesel Range OG Soil/M8015						
Diesel Range OG in Soil	ND	mg/Kg	50	1.0	11/19/96	SDRO007

Fred L. Shore, Ph.D.
VP of Laboratory Operations

WORKORDER COMMENTS

DATE : 11/29/96
WORKORDER:

DEFINITIONS/DATA QUALIFIERS

The following are definitions, abbreviations, and data qualifiers which may have been utilized in your report:

ND = Analyte "not detected" in analysis at the sample specific detection limit.
D_F = Sample "dilution factor"
NT = Analyte "not tested" per client request.
B = Analyte was also detected in laboratory method QC blank.
E = Analyte concentration (result) is an estimated value or exceeds analysis calibration range.
LIMIT = The minimum amount of the analyte that AAL can detect utilizing the specified analysis.

Please Note: Multiply the "Limit" value (AAL's Detection Limit) by Dilution Factor (D_F) to obtain the sample specific Detection Limit.

*** Analytical results reported pertain only to the samples provided ***
*** for analysis and may not represent actual field conditions. ***
*** ***
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REPORT COMMENTS

ASSAIGAI ANALYTICAL LABORATORIES

Chain of Custody Record

Lab job no.: 11-061 Date

Page ____ of ____

7300 JEFFERSON, N.E.
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EL PASO, TEXAS 79925
(915) 593-6000

1910 N. BIG SPRING
MIDLAND, TEXAS 79705
(915) 570-1116

MELQUIADES ALANIS
6411 LOCAL UNO
CIUDAD JUAREZ, CHIHUAHUA MEXICO 32320

Client: Cheyenne/CCI-2, INC.

Address: 1712 S Prince St

City / State / Zip: Clovis NM 88101

Project Name / Number: DACA47-95-D-0035

Contract / Purchase Order / Quote: DAN MOORE

Project Manager / Contact: Mike Landgraf

Telephone No.: 505-763-1410

Fax No.: 505-769-0780

Samplers: (Signature)

Analysis Required (Lab use only!)

AAL FRACTION NUMBER	Field Sample Number / Location	Date	Time	Sample Type	Type / Size of Container	Preservation Temp.	Preservation Chemical	No. of Containers	TPH 8015 MOD Diesel	8260 VOA's	8270 Semi-VOA's	8010 & 7470 GSMS (3) Extractables	8020 BTEX	TCLP 1311 (Metals)	Full TCLP Metals			Remarks
01A,B	CAOWS/1-96-1107-1100	11/7/96	11:00	concrete	4, 9oz glass			4							X			OWS Disposal see comments
02A,B,C,D	CA11/7-96-1107-1406	11/7/96	2:06	soil	1 9oz, 9oz glass			4	X	X	X	X						excavation confirmatory
03A,B	CA11/8-96-1107-1407	11/7/96	2:07	soil	1 9oz, 1 4oz glass			2	X				X	X				excavated material confirmatory
04A,B,C,D	CA7/7-96-1107-1506	11/7/96	3:06	soil	1 9oz, 9oz glass			4	X	X	X	X						excavation confirmatory
05A	CA7/4-96-1107-1503	11/7/96	3:03	soil	1 4oz glass			1	X				X					correlation
06A,B	CA7/8-96-1107-1507	11/7/96	3:07	soil	1 9oz, 1 4oz glass			2	X				X	X				excavated material confirmatory.
7A	CA7/6-96-1107-1505	11/7/96	3:05	soil	1 4oz glass			1	X				X					correlation
8A	CA11/4-96-1107-1403	11/7/96	2:03	soil	1 9oz glass.			1	X				X					correlation
9A	CA11/5-96-1107-1404	11/7/96	2:04	soil	1 4oz glass			1	X				X					correlation

Relinquished by:	Date / Time	Received by:	Relinquished by:	Date / Time	Received by:
Signature: [signature]	11/8/96	Signature: Sally Gonzales	Signature:	11/11/96	Signature: [signature]
Printed: Troy Morales	2:03 PM	Printed: Sally Gonzales	Printed: GREYHOUND	3:30	Printed: Dave Fellows
Company: Cheyenne		Company: [illegible]	Company:		Company: AAL
Reason: Shipment		Reason: Shipment	Reason:		Reason:

Method of Shipment: Bus

Shipment No.:

Special Instructions:

Comments: Concrete is a composite from Sumps 62, 38, 39, 46, 117, 97, 33b, 11, 7, + 1 Acid onice!

After analysis, samples are to be:

- ☐ Disposed of (additional fee)
- ☐ Stored (30 days max)
- ☐ Stored over 30 days (additional fee)
- ☐ Returned to customer

C(

ASSAIGAI
ANALYTICAL
LABORATORIES, INC.
7300 Jefferson, N.E. • Albuquerque, New Mexico 87109 • (505) 345-8964 • FAX (505) 345-7259
3332 Wedgewood, E-5 • El Paso, Texas 79925 • (915) 593-6000 • FAX (915) 593-7820

Report Generated:
December 3, 1996 09:19

CERTIFICATE OF ANALYSIS
RESULTS BY SAMPLE

SENT TO: CHEYENNE BUILDING CONTRACTORS
P.O. BOX 418
CLOVIS, NM 88101

ATTN: MIKE LANDGRAF

WORKORDER # : 9611123
WORK ID : DACA47-95-D-0035
CLIENT CODE : CHE10
DATE RECEIVED : 11/15/96

Lab ID: 9611123-01A
Sample ID: CA1/7-96-1114-0936
Collected: 11/14/96 09:36:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
Diesel Range OG Soil/M8015						
Diesel Range OG in Soil	ND	mg/Kg	50	1.0	11/19/96	SDRO007

Lab ID: 9611123-01B
Sample ID: CA1/7-96-1114-0936
Collected: 11/14/96 09:36:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
VOLATILES/SW846 8260						
Dichlorodifluoromethane	ND	mg/Kg	0.010	5.0	11/18/96	SMSVOA402
Chloromethane	ND	mg/Kg	0.0050	5.0	11/18/96	SMSVOA402
Iodomethane	ND	mg/Kg	0.0050	5.0	11/18/96	SMSVOA402
Acetone	ND	mg/Kg	0.0050	5.0	11/18/96	SMSVOA402
Bromomethane	ND	mg/Kg	0.0050	5.0	11/18/96	SMSVOA402
Vinyl Chloride	ND	mg/Kg	0.0050	5.0	11/18/96	SMSVOA402
Chloroethane	ND	mg/Kg	0.0050	5.0	11/18/96	SMSVOA402
Trichlorofluoromethane	ND	mg/Kg	0.0050	5.0	11/18/96	SMSVOA402
Freon 113	ND	mg/Kg	0.0050	5.0	11/18/96	SMSVOA402
Carbon Disulfide	ND	mg/Kg	0.0050	5.0	11/18/96	SMSVOA402
Acrolein	ND	mg/Kg	0.020	5.0	11/18/96	SMSVOA402
Methylene Chloride	ND	mg/Kg	0.010	5.0	11/18/96	SMSVOA402
1,1-Dichloroethene	ND	mg/Kg	0.0010	5.0	11/18/96	SMSVOA402
1,1-Dichloroethane	ND	mg/Kg	0.0010	5.0	11/18/96	SMSVOA402
Acrylonitrile	ND	mg/Kg	0.020	5.0	11/18/96	SMSVOA402
trans-1,2-Dichloroethene	ND	mg/Kg	0.0010	5.0	11/18/96	SMSVOA402
Chloroform	ND	mg/Kg	0.0010	5.0	11/18/96	SMSVOA402
1,2-Dichloroethane	ND	mg/Kg	0.0010	5.0	11/18/96	SMSVOA402
Vinyl Acetate	ND	mg/Kg	0.0050	5.0	11/18/96	SMSVOA402
cis-1,2-Dichloroethene	ND	mg/Kg	0.0010	5.0	11/18/96	SMSVOA402
2-Butanone (MEK)	ND	mg/Kg	0.0050	5.0	11/18/96	SMSVOA402
1,1,1-Trichloroethane	ND	mg/Kg	0.0010	5.0	11/18/96	SMSVOA402
Carbon Tetrachloride	ND	mg/Kg	0.0010	5.0	11/18/96	SMSVOA402
Bromodichloromethane	ND	mg/Kg	0.0010	5.0	11/18/96	SMSVOA402
1,2-Dichloropropane	ND	mg/Kg	0.0010	5.0	11/18/96	SMSVOA402
Dibromomethane	ND	mg/Kg	0.0010	5.0	11/18/96	SMSVOA402
trans-1,3-Dichloropropene	ND	mg/Kg	0.0010	5.0	11/18/96	SMSVOA402
Trichloroethene	ND	mg/Kg	0.0010	5.0	11/18/96	SMSVOA402
Bromodibromomethane	ND	mg/Kg	0.0010	5.0	11/18/96	SMSVOA402
Ethyl Methacrylate	ND	mg/Kg	0.0050	5.0	11/18/96	SMSVOA402
2-Chloroethylvinyl Ether	ND	mg/Kg	0.0050	5.0	11/18/96	SMSVOA402

Member: American Council of Independent Laboratories, Inc.

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ID: 9611123-01B
Sample ID: CA1/7-96-1114-0936

Collected: 11/14/96 09:36:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
VOLATILES/SW846 8260						
1,1,2-Trichloroethane	ND	mg/Kg	0.0010	5.0	11/18/96	SMSVOA402
Benzene	ND	mg/Kg	0.0010	5.0	11/18/96	SMSVOA402
cis-1,3-Dichloropropene	ND	mg/Kg	0.0010	5.0	11/18/96	SMSVOA402
Bromoform	ND	mg/Kg	0.0010	5.0	11/18/96	SMSVOA402
4-Methyl-2-Pentanone (MIBK)	ND	mg/Kg	0.0050	5.0	11/18/96	SMSVOA402
Tetrachloroethene	ND	mg/Kg	0.0010	5.0	11/18/96	SMSVOA402
1,1,2,2-Tetrachloroethane	ND	mg/Kg	0.0010	5.0	11/18/96	SMSVOA402
1,2-Dibromoethane	ND	mg/Kg	0.0010	5.0	11/18/96	SMSVOA402
2-Hexanone (MBK)	ND	mg/Kg	0.0050	5.0	11/18/96	SMSVOA402
1,1,1,2-Tetrachloroethane	ND	mg/Kg	0.0010	5.0	11/18/96	SMSVOA402
Toluene	ND	mg/Kg	0.0010	5.0	11/18/96	SMSVOA402
Chlorobenzene	ND	mg/Kg	0.0010	5.0	11/18/96	SMSVOA402
Ethylbenzene	ND	mg/Kg	0.0010	5.0	11/18/96	SMSVOA402
1,4-Dichloro-2-Butene	ND	mg/Kg	0.010	5.0	11/18/96	SMSVOA402
Styrene	ND	mg/Kg	0.0010	5.0	11/18/96	SMSVOA402
P/M Xylene	ND	mg/Kg	0.0020	5.0	11/18/96	SMSVOA402
O-Xylene	ND	mg/Kg	0.0010	5.0	11/18/96	SMSVOA402
1,2,3-Trichloropropane	ND	mg/Kg	0.0010	5.0	11/18/96	SMSVOA402
Methyl-tert Butyl Ether	ND	mg/Kg	0.010	5.0	11/18/96	SMSVOA402
1,2-Dichlorobenzene	ND	mg/Kg	0.0010	5.0	11/18/96	SMSVOA402
1,3-Dichlorobenzene	ND	mg/Kg	0.0010	5.0	11/18/96	SMSVOA402
1,4-Dichlorobenzene	ND	mg/Kg	0.0010	5.0	11/18/96	SMSVOA402

ID: 9611123-01C
Sample ID: CA1/7-96-1114-0936

Collected: 11/14/96 09:36:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
SVOA(SOX) Soil/SW846 8270B	11/18/96	N/A				
n-Nitrosodimethylamine	ND	mg/Kg	1.0	1.8	11/20/96	SMSSVOA129
Pyridine	ND	mg/Kg	10	1.8	11/20/96	SMSSVOA129
Aniline	ND	mg/Kg	10	1.8	11/20/96	SMSSVOA129
bis(2-Chloroethyl) Ether	ND	mg/Kg	0.50	1.8	11/20/96	SMSSVOA129
2-Chlorophenol	ND	mg/Kg	0.50	1.8	11/20/96	SMSSVOA129
1,3-Dichlorobenzene	ND	mg/Kg	0.50	1.8	11/20/96	SMSSVOA129
1,4-Dichlorobenzene	ND	mg/Kg	0.50	1.8	11/20/96	SMSSVOA129
Phenol	ND	mg/Kg	0.50	1.8	11/20/96	SMSSVOA129
1,2-Dichlorobenzene	ND	mg/Kg	0.50	1.8	11/20/96	SMSSVOA129
Benzyl Alcohol	ND	mg/Kg	10	1.8	11/20/96	SMSSVOA129
bis(2-Chloroisopropyl) Ether	ND	mg/Kg	1.0	1.8	11/20/96	SMSSVOA129
2-Methylphenol / O-Cresol	ND	mg/Kg	0.50	1.8	11/20/96	SMSSVOA129
Hexachloroethane	ND	mg/Kg	0.50	1.8	11/20/96	SMSSVOA129
n-Nitroso-di-n-propylamine	ND	mg/Kg	0.50	1.8	11/20/96	SMSSVOA129
Nitrobenzene	ND	mg/Kg	0.50	1.8	11/20/96	SMSSVOA129
3/4 Methylphenol / M/P-Cresol	ND	mg/Kg	0.50	1.8	11/20/96	SMSSVOA129
Isophorone	ND	mg/Kg	0.50	1.8	11/20/96	SMSSVOA129
2-Nitrophenol	ND	mg/Kg	1.0	1.8	11/20/96	SMSSVOA129
bis(2-Chloroethoxy) Methane	ND	mg/Kg	0.50	1.8	11/20/96	SMSSVOA129
2,4-Dimethylphenol	ND	mg/Kg	1.0	1.8	11/20/96	SMSSVOA129
1,2,4-Trichlorobenzene	ND	mg/Kg	0.50	1.8	11/20/96	SMSSVOA129
Naphthalene	ND	mg/Kg	0.50	1.8	11/20/96	SMSSVOA129
Benzoic Acid	ND	mg/Kg	10	1.8	11/20/96	SMSSVOA129
4-Dichlorophenol	ND	mg/Kg	1.0	1.8	11/20/96	SMSSVOA129
loroaniline	ND	mg/Kg	10	1.8	11/20/96	SMSSVOA129
hlorobutadiene	ND	mg/Kg	0.50	1.8	11/20/96	SMSSVOA129
nylnaphthalene	ND	mg/Kg	0.50	1.8	11/20/96	SMSSVOA129
4-Chloro-3-methylphenol	ND	mg/Kg	0.50	1.8	11/20/96	SMSSVOA129
Hexachlorocyclopentadiene	ND	mg/Kg	10	1.8	11/20/96	SMSSVOA129

ID: 9611123-01C **Collected:** 11/14/96 09:36:00
Sample ID: CA1/7-96-1114-0936 **Matrix:** SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
SVOA(SOX) Soil/SW846 8270B						
2,4,6-Trichlorophenol	ND	mg/Kg	1.0	1.8	11/20/96	SMSSVOA129
2,4,5-Trichlorophenol	ND	mg/Kg	1.0	1.8	11/20/96	SMSSVOA129
2-Chloronaphthalene	ND	mg/Kg	0.50	1.8	11/20/96	SMSSVOA129
2-Nitroaniline	ND	mg/Kg	1.0	1.8	11/20/96	SMSSVOA129
Acenaphthylene	ND	mg/Kg	0.50	1.8	11/20/96	SMSSVOA129
Dimethylphthalate	ND	mg/Kg	0.50	1.8	11/20/96	SMSSVOA129
2,6-Dinitrotoluene	ND	mg/Kg	1.0	1.8	11/20/96	SMSSVOA129
Acenaphthene	ND	mg/Kg	0.50	1.8	11/20/96	SMSSVOA129
3-Nitroaniline	ND	mg/Kg	10	1.8	11/20/96	SMSSVOA129
Dibenzofuran	ND	mg/Kg	0.50	1.8	11/20/96	SMSSVOA129
2,4-Dinitrotoluene	ND	mg/Kg	2.5	1.8	11/20/96	SMSSVOA129
Fluorene	ND	mg/Kg	0.50	1.8	11/20/96	SMSSVOA129
4-Chlorophenyl-phenylether	ND	mg/Kg	0.50	1.8	11/20/96	SMSSVOA129
Diethylphthalate	ND	mg/Kg	0.50	1.8	11/20/96	SMSSVOA129
4-Nitrophenol	ND	mg/Kg	10	1.8	11/20/96	SMSSVOA129
4,6-Dinitro-2-methylphenol	ND	mg/Kg	10	1.8	11/20/96	SMSSVOA129
n-Nitrosodiphenylamine	ND	mg/Kg	0.50	1.8	11/20/96	SMSSVOA129
4-Nitroaniline	ND	mg/Kg	10	1.8	11/20/96	SMSSVOA129
4-Bromophenyl-phenylether	ND	mg/Kg	0.50	1.8	11/20/96	SMSSVOA129
Hexachlorobenzene	ND	mg/Kg	0.50	1.8	11/20/96	SMSSVOA129
Pentachlorophenol	ND	mg/Kg	10	1.8	11/20/96	SMSSVOA129
2,4-Dinitrophenol	ND	mg/Kg	10	1.8	11/20/96	SMSSVOA129
Phenanthrene	ND	mg/Kg	0.50	1.8	11/20/96	SMSSVOA129
' nthracene	ND	mg/Kg	0.50	1.8	11/20/96	SMSSVOA129
butylphthalate	16	mg/Kg	5.0	1.8	11/20/96	SMSSVOA129
ınthene	ND	mg/Kg	0.50	1.8	11/20/96	SMSSVOA129
.ıe	ND	mg/Kg	0.50	1.8	11/20/96	SMSSVOA129
Butylbenzylphthalate	ND	mg/Kg	0.50	1.8	11/20/96	SMSSVOA129
Benzo(a)anthracene	ND	mg/Kg	0.50	1.8	11/20/96	SMSSVOA129
Chrysene	ND	mg/Kg	0.50	1.8	11/20/96	SMSSVOA129
3,3'-Dichlorobenzidine	ND	mg/Kg	10	1.8	11/20/96	SMSSVOA129
bis(2-Ethylhexyl)phthalate	ND	mg/Kg	2.5	1.8	11/20/96	SMSSVOA129
Di-n-octyl phthalate	ND	mg/Kg	0.50	1.8	11/20/96	SMSSVOA129
Benzo(b)+(k)fluoranthene	ND	mg/Kg	0.50	1.8	11/20/96	SMSSVOA129
1-Methylnaphthalene	ND	mg/Kg	1.0	1.8	11/20/96	SMSSVOA129
Benzo(a)pyrene	ND	mg/Kg	0.50	1.8	11/20/96	SMSSVOA129
Indeno(1,2,3-cd)pyrene	ND	mg/Kg	1.0	1.8	11/20/96	SMSSVOA129
Benzo(g,h,i)perylene	ND	mg/Kg	1.0	1.8	11/20/96	SMSSVOA129
2,3,4,6-Tetrachlorophenol	ND	mg/Kg	2.5	1.8	11/20/96	SMSSVOA129
Azobenzene	ND	mg/Kg	1.0	1.8	11/20/96	SMSSVOA129
Dibenz(a,h)anthracene	ND	mg/Kg	1.0	1.8	11/20/96	SMSSVOA129

Lab ID: 9611123-01D **Collected:** 11/14/96 09:36:00
Sample ID: CA1/7-96-1114-0936 **Matrix:** SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
% SOLIDS(TCLP XT)EPA 160.3	100.00	% (Percent)				
CVAA Hg XT/SW846 7471	11/21/96	N/A				
MERCURY (CVAA)/SW846 7471						
Mercury	ND	mg/Kg	0.15	1.0	11/21/96	M96153
Metal(ICP) DIG /SW846 3050	11/22/96	N/A				
'TALS-ICP/SW846 6010						
·r, Ag	ND	mg/Kg	1.0	1.0	11/25/96	M96155
num, Al	NT	mg/Kg	25			M96155
ıc, As	ND	mg/Kg	3.0	1.0	11/25/96	M96155
Barium, Ba	1390	mg/Kg	0.50	1.0	11/25/96	M96155
Beryllium, Be	NT	mg/Kg	0.50			M96155

ID: 9611123-01D **Collected:** 11/14/96 09:36:00
Sample ID: CA1/7-96-1114-0936 **Matrix:** SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
METALS-ICP/SW846 6010						
Calcium, Ca	NT	mg/Kg	15			M96155
Cadmium, Cd	ND	mg/Kg	0.20	1.0	11/25/96	M96155
Cobalt, Co	NT	mg/Kg	0.50			M96155
Chromium, Cr	9.9	mg/Kg	1.0	1.0	11/25/96	M96155
Copper, Cu	NT	mg/Kg	0.50			M96155
Iron, Fe	NT	mg/Kg	15			M96155
Potassium, K	NT	mg/Kg	10			M96155
Magnesium, Mg	NT	mg/Kg	10			M96155
Manganese, Mn	NT	mg/Kg	0.25			M96155
Sodium, Na	NT	mg/Kg	15			M96155
Nickel, Ni	9.1	mg/Kg	2.0	1.0	11/25/96	M96155
Lead, Pb	7.6	mg/Kg	2.0	1.0	11/25/96	M96155
Antimony, Sb	NT	mg/Kg	1.5			M96155
Selenium, Se	ND	mg/Kg	2.5	1.0	11/25/96	M96155
Vanadium, V	NT	mg/Kg	0.15			M96155
Zinc, Zn	NT	mg/Kg	5.0			M96155
TCLP (ICP) DIG/1311/3005	11/20/96	N/A				
TCLP CHROMIUM(F)/1311/7190						
Chromium, Cr	ND	mg/L	0.020	1.0	11/22/96	M96145
TCLP EXTRACTION/TCLP 1311	11/19/96	N/A				
TCLP METALS/1311/SW8466010						
Arsenic, As	ND	mg/L	0.40	1.0	11/22/96	M96145,M96152
Barium, Ba	1.2	mg/L	0.50	1.0	11/22/96	M96145,M96152
Cadmium, Cd	ND	mg/L	0.0050	1.0	11/22/96	M96145,M96152
nium, Cr	NT	mg/L	0.020			M96145,M96152
Pb	ND	mg/L	0.050	1.0	11/22/96	M96145,M96152
ury, Hg	ND	mg/L	0.0020	1.0	11/21/96	M96145,M96152
Selenium, Se	ND	mg/L	0.050	1.0	11/22/96	M96145,M96152
Silver, Ag	ND	mg/L	0.040	1.0	11/22/96	M96145,M96152
TCLP(CVAA)Hg XT/SW846 7471	11/20/96	N/A				

Lab ID: 9611123-02A **Collected:** 11/14/96 09:30:00
Sample ID: CA1/1-96-1114-0930 **Matrix:** SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
BTEX/SW846 8020A						
Benzene	ND*	mg/Kg	0.0010	5.0	11/22/96	SMSVOA406
Toluene	ND*	mg/Kg	0.0010	5.0	11/22/96	SMSVOA406
Ethylbenzene	ND*	mg/Kg	0.0010	5.0	11/22/96	SMSVOA406
P-&m-Xylene	ND*	mg/Kg	0.0010	5.0	11/22/96	SMSVOA406
O-Xylene	ND*	mg/Kg	0.0010	5.0	11/22/96	SMSVOA406
Diesel Range OG Soil/M8015						
Diesel Range OG in Soil	ND	mg/Kg	50	1.0	11/19/96	SDRO007

Lab ID: 9611123-03A **Collected:** 11/14/96 09:31:00
Sample ID: CA1/2-96-1114-0931 **Matrix:** SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
SW846 8020A						
Benzene	ND*	mg/Kg	0.0010	5.0	11/22/96	SMSVOA406
Toluene	ND*	mg/Kg	0.0010	5.0	11/22/96	SMSVOA406

ID: 9611123-03A
Sample ID: CA1/2-96-1114-0931

Collected: 11/14/96 09:31:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
BTEX/SW846 8020A						
Ethylbenzene	ND*	mg/Kg	0.0010	5.0	11/22/96	SMSVOA406
P-&m-Xylene	ND*	mg/Kg	0.0010	5.0	11/22/96	SMSVOA406
O-Xylene	ND*	mg/Kg	0.0010	5.0	11/22/96	SMSVOA406
Diesel Range OG Soil/M8015						
Diesel Range OG in Soil	ND	mg/Kg	50	1.0	11/19/96	SDRO007

Fred L. Shore, Ph.D.
VP of Laboratory Operations

WORKORDER COMMENTS

DATE : 12/04/96
WORKORDER: 9611123

DEFINITIONS/DATA QUALIFIERS

The following are definitions, abbreviations, and data qualifiers which may have been utilized in your report:

ND = Analyte "not detected" in analysis at the sample specific detection limit.
D_F = Sample "dilution factor"
NT = Analyte "not tested" per client request.
B = Analyte was also detected in laboratory method QC blank.
E = Analyte concentration (result) is an estimated value or exceeds analysis calibration range.
LIMIT = The minimum amount of the analyte that AAL can detect utilizing the specified analysis.

Please Note: Multiply the "Limit" value (AAL's Detection Limit) by Dilution Factor (D_F) to obtain the sample specific Detection Limit.

*** Analytical results reported pertain only to the samples provided ***
*** for analysis and may not represent actual field conditions. ***
*** ***
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*** written approval of Assaigai Analytical Inc. ***

REPORT COMMENTS

*Please Note: The BTEX analysis were performed by EPA method 8240.

ASSAIGAI ANALYTICAL LABORATORIES

Chain of Custody Record

7300 JEFFERSON, N.E.
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(505) 345-8964

2832 WEDGEWOOD
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(915) 593-6000

1910 N. BIG SPRING
MIDLAND, TEXAS 79705
(915) 570-1116

MELQUIADES ALANIS
6411 LOCAL UNO
CIUDAD JUAREZ, CHIHUAHUA MEXICO 32320

Lab Job no.: 11123 Date: 11/15/96

Page 1 of 1

Client: Cheyenne / LCI-2, Inc.

Address: 1712 Pierce st

City / State / Zip: CLOVIS NM 88101

Project Name / Number: DACA97-95-D-0035

Contract / Purchase Order / Quote: DAN MOORE

Project Manager / Contact: Mike Landset

Telephone No.: 505-763-1410

Fax No.: 505-769-0780

Samplers: (Signature) [signature]

Analysis Required: TPH 8015 Mod. Diesel range only; 8260 GC/MS; 8270 GC/MS Semi-Volatiles; 6010 + 7470 (Hg) Metals; 8020 BTEX

Laboratory Number	Field Sample Number / Location	Date	Time	Sample Type	Type / Size of Container	Preservation Temp.	Preservation Chemical	No. of Containers	TPH 8015 Mod.	8260 GC/MS	8270 GC/MS Semi-Volatiles	6010 + 7470 (Hg) Metals	8020 BTEX				Remarks
1A-D	CA1/7-96-1114-0936	11/14/96	9:36	Soil	1 4oz + 3 8oz glass			4	X	X	X	X					Confirmatory
2A	CA1/1-96-1114-0930	11/14/96	9:30	Soil	1 4oz glass			1	X				X				correlation Highest
3A	CA1/2-96-1114-0931	11/14/96	9:31	Soil	1 4oz glass			1	X				X				correlation lot 10

Relinquished by:	Date / Time	Received by:	Relinquished by:	Date / Time	Received by:
Signature: [signature]	11/14/96	Signature: Sally Gonzales	Signature:	11/15/96	Signature: [signature]
Printed: Troy Morales	Time: 3:30pm	Printed: SALLY GONZALES	Printed:	Time: 937	Printed:
Company: Cheyenne		Company: INM&O	Company: INM&O		Company: AAL
Reason: Shipment		Reason: Shipment	Reason: Transport		Reason:

Method of Shipment: Bus

Shipment No.:

Special Instructions:

Comments:

After analysis, samples are to be:

- ☐ Disposed of (additional fee)
- ☐ Stored (30 days max)
- ☐ Stored over 30 days (additional fee)
- ☐ Returned to customer

CO

ASSAIGAI ANALYTICAL LABORATORIES, INC.
7300 Jefferson, N.E. • Albuquerque, New Mexico 87109 • (505) 345-8964 • FAX (505) 345-7259
3332 Wedgewood, E-5 • El Paso, Texas 79925 • (915) 593-6000 • FAX (915) 593-7820

Report Generated:
December 23, 1996 13:34

CERTIFICATE OF ANALYSIS
RESULTS BY SAMPLE

SENT TO: CHEYENNE BUILDING CONTRACTORS
P.O. BOX 418
CLOVIS, NM 88101

ATTN: MIKE LANDGRAF

WORKORDER # : 9611215
WORK ID : DACA47-95-D-0035
CLIENT CODE : CHE10
DATE RECEIVED : 11/26/96

Lab ID: 9611215-01A
Sample ID: CA47A-7-96-1122-1406
Collected: 11/22/96 14:07:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
Diesel Range OG Soil/M8015						
Diesel Range OG in Soil	ND	mg/Kg	50	1.0	12/03/96	SDRO008

Lab ID: 9611215-01B
Sample ID: CA47A-7-96-1122-1406
Collected: 11/22/96 14:06:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
VOLATILES/SW846 8260						
Dichlorodifluoromethane	ND	mg/Kg	0.010	5.0	12/05/96	SMSVOA408
Chloromethane	ND	mg/Kg	0.0050	5.0	12/05/96	SMSVOA408
Iodomethane	ND	mg/Kg	0.0050	5.0	12/05/96	SMSVOA408
Acetone	ND	mg/Kg	0.0050	5.0	12/05/96	SMSVOA408
Bromomethane	ND	mg/Kg	0.0050	5.0	12/05/96	SMSVOA408
Vinyl Chloride	ND	mg/Kg	0.0050	5.0	12/05/96	SMSVOA408
Chloroethane	ND	mg/Kg	0.0050	5.0	12/05/96	SMSVOA408
Trichlorofluoromethane	ND	mg/Kg	0.0050	5.0	12/05/96	SMSVOA408
Freon 113	ND	mg/Kg	0.0050	5.0	12/05/96	SMSVOA408
Carbon Disulfide	ND	mg/Kg	0.0050	5.0	12/05/96	SMSVOA408
Acrolein	ND	mg/Kg	0.020	5.0	12/05/96	SMSVOA408
Methylene Chloride	ND	mg/Kg	0.010	5.0	12/05/96	SMSVOA408
1,1-Dichloroethene	ND	mg/Kg	0.0010	5.0	12/05/96	SMSVOA408
1,1-Dichloroethane	ND	mg/Kg	0.0010	5.0	12/05/96	SMSVOA408
Acrylonitrile	ND	mg/Kg	0.020	5.0	12/05/96	SMSVOA408
trans-1,2-Dichloroethene	ND	mg/Kg	0.0010	5.0	12/05/96	SMSVOA408
Chloroform	ND	mg/Kg	0.0010	5.0	12/05/96	SMSVOA408
1,2-Dichloroethane	ND	mg/Kg	0.0010	5.0	12/05/96	SMSVOA408
Vinyl Acetate	ND	mg/Kg	0.0050	5.0	12/05/96	SMSVOA408
cis-1,2-Dichloroethene	ND	mg/Kg	0.0010	5.0	12/05/96	SMSVOA408
2-Butanone (MEK)	ND	mg/Kg	0.0050	5.0	12/05/96	SMSVOA408
1,1,1-Trichloroethane	ND	mg/Kg	0.0010	5.0	12/05/96	SMSVOA408
Carbon Tetrachloride	ND	mg/Kg	0.0010	5.0	12/05/96	SMSVOA408
Bromodichloromethane	ND	mg/Kg	0.0010	5.0	12/05/96	SMSVOA408
1,2-Dichloropropane	ND	mg/Kg	0.0010	5.0	12/05/96	SMSVOA408
romomethane	ND	mg/Kg	0.0010	5.0	12/05/96	SMSVOA408
1,3-Dichloropropene	ND	mg/Kg	0.0010	5.0	12/05/96	SMSVOA408
roethene	ND	mg/Kg	0.0010	5.0	12/05/96	SMSVOA408
ibromomethane	ND	mg/Kg	0.0010	5.0	12/05/96	SMSVOA408
Methacrylate	ND	mg/Kg	0.0050	5.0	12/05/96	SMSVOA408
2-Chloroethylvinyl Ether	ND	mg/Kg	0.0050	5.0	12/05/96	SMSVOA408

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PRODUCT ENDORSEMENT BY THE NATIONAL VOLUNTARY LABORATORY ACCREDITATION PROGRAM.

ID: 9611215-01B
Sample ID: CA47A-7-96-1122-1406

Collected: 11/22/96 14:06:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
VOLATILES/SW846 8260						
1,1,2-Trichloroethane	ND	mg/Kg	0.0010	5.0	12/05/96	SMSVOA408
Benzene	ND	mg/Kg	0.0010	5.0	12/05/96	SMSVOA408
cis-1,3-Dichloropropene	ND	mg/Kg	0.0010	5.0	12/05/96	SMSVOA408
Bromoform	ND	mg/Kg	0.0010	5.0	12/05/96	SMSVOA408
4-Methyl-2-Pentanone (MIBK)	ND	mg/Kg	0.0050	5.0	12/05/96	SMSVOA408
Tetrachloroethene	ND	mg/Kg	0.0010	5.0	12/05/96	SMSVOA408
1,1,2,2-Tetrachloroethane	ND	mg/Kg	0.0010	5.0	12/05/96	SMSVOA408
1,2-Dibromoethane	ND	mg/Kg	0.0010	5.0	12/05/96	SMSVOA408
2-Hexanone (MBK)	ND	mg/Kg	0.0050	5.0	12/05/96	SMSVOA408
1,1,1,2-Tetrachloroethane	ND	mg/Kg	0.0010	5.0	12/05/96	SMSVOA408
Toluene	ND	mg/Kg	0.0010	5.0	12/05/96	SMSVOA408
Chlorobenzene	ND	mg/Kg	0.0010	5.0	12/05/96	SMSVOA408
Ethylbenzene	ND	mg/Kg	0.0010	5.0	12/05/96	SMSVOA408
1,4-Dichloro-2-Butene	ND	mg/Kg	0.010	5.0	12/05/96	SMSVOA408
Styrene	ND	mg/Kg	0.0010	5.0	12/05/96	SMSVOA408
P/M Xylene	ND	mg/Kg	0.0020	5.0	12/05/96	SMSVOA408
O-Xylene	ND	mg/Kg	0.0010	5.0	12/05/96	SMSVOA408
1,2,3-Trichloropropane	ND	mg/Kg	0.0010	5.0	12/05/96	SMSVOA408
Methyl-tert Butyl Ether	ND	mg/Kg	0.010	5.0	12/05/96	SMSVOA408
1,2-Dichlorobenzene	ND	mg/Kg	0.0010	5.0	12/05/96	SMSVOA408
1,3-Dichlorobenzene	ND	mg/Kg	0.0010	5.0	12/05/96	SMSVOA408
1,4-Dichlorobenzene	ND	mg/Kg	0.0010	5.0	12/05/96	SMSVOA408

ID: 9611215-01C
Sample ID: CA47A-7-96-1122-1406

Collected: 11/22/96 14:06:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
SVOA(SOX) Soil/SW846 8270B	12/02/96	N/A				
n-Nitrosodimethylamine	ND	mg/Kg	1.0	1.5	12/12/96	SMSSVOA131
Pyridine	ND	mg/Kg	10	1.5	12/12/96	SMSSVOA131
Aniline	ND	mg/Kg	10	1.5	12/12/96	SMSSVOA131
bis(2-Chloroethyl) Ether	ND	mg/Kg	0.50	1.5	12/12/96	SMSSVOA131
2-Chlorophenol	ND	mg/Kg	0.50	1.5	12/12/96	SMSSVOA131
1,3-Dichlorobenzene	ND	mg/Kg	0.50	1.5	12/12/96	SMSSVOA131
1,4-Dichlorobenzene	ND	mg/Kg	0.50	1.5	12/12/96	SMSSVOA131
Phenol	ND	mg/Kg	0.50	1.5	12/12/96	SMSSVOA131
1,2-Dichlorobenzene	ND	mg/Kg	0.50	1.5	12/12/96	SMSSVOA131
Benzyl Alcohol	ND	mg/Kg	10	1.5	12/12/96	SMSSVOA131
bis(2-Chloroisopropyl) Ether	ND	mg/Kg	1.0	1.5	12/12/96	SMSSVOA131
2-Methylphenol / O-Cresol	ND	mg/Kg	0.50	1.5	12/12/96	SMSSVOA131
Hexachloroethane	ND	mg/Kg	0.50	1.5	12/12/96	SMSSVOA131
n-Nitroso-di-n-propylamine	ND	mg/Kg	0.50	1.5	12/12/96	SMSSVOA131
Nitrobenzene	ND	mg/Kg	0.50	1.5	12/12/96	SMSSVOA131
3/4 Methylphenol / M/P-Cresol	ND	mg/Kg	0.50	1.5	12/12/96	SMSSVOA131
Isophorone	ND	mg/Kg	0.50	1.5	12/12/96	SMSSVOA131
2-Nitrophenol	ND	mg/Kg	1.0	1.5	12/12/96	SMSSVOA131
bis(2-Chloroethoxy) Methane	ND	mg/Kg	0.50	1.5	12/12/96	SMSSVOA131
2,4-Dimethylphenol	ND	mg/Kg	1.0	1.5	12/12/96	SMSSVOA131
1,2,4-Trichlorobenzene	ND	mg/Kg	0.50	1.5	12/12/96	SMSSVOA131
Naphthalene	ND	mg/Kg	0.50	1.5	12/12/96	SMSSVOA131
Benzoic Acid	ND	mg/Kg	10	1.5	12/12/96	SMSSVOA131
4-Dichlorophenol	ND	mg/Kg	1.0	1.5	12/12/96	SMSSVOA131
loroaniline	ND	mg/Kg	10	1.5	12/12/96	SMSSVOA131
hlorobutadiene	ND	mg/Kg	0.50	1.5	12/12/96	SMSSVOA131
hylnaphthalene	ND	mg/Kg	0.50	1.5	12/12/96	SMSSVOA131
4-Chloro-3-methylphenol	ND	mg/Kg	0.50	1.5	12/12/96	SMSSVOA131
Hexachlorocyclopentadiene	ND	mg/Kg	10	1.5	12/12/96	SMSSVOA131

ID: 9611215-01C **Collected:** 11/22/96 14:06:00
Sample ID: CA47A-7-96-1122-1406 **Matrix:** SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
SVOA(SOX) Soil/SW846 8270B						
2,4,6-Trichlorophenol	ND	mg/Kg	1.0	1.5	12/12/96	SMSSVOA131
2,4,5-Trichlorophenol	ND	mg/Kg	1.0	1.5	12/12/96	SMSSVOA131
2-Chloronaphthalene	ND	mg/Kg	0.50	1.5	12/12/96	SMSSVOA131
2-Nitroaniline	ND	mg/Kg	1.0	1.5	12/12/96	SMSSVOA131
Acenaphthylene	ND	mg/Kg	0.50	1.5	12/12/96	SMSSVOA131
Dimethylphthalate	ND	mg/Kg	0.50	1.5	12/12/96	SMSSVOA131
2,6-Dinitrotoluene	ND	mg/Kg	1.0	1.5	12/12/96	SMSSVOA131
Acenaphthene	ND	mg/Kg	0.50	1.5	12/12/96	SMSSVOA131
3-Nitroaniline	ND	mg/Kg	10	1.5	12/12/96	SMSSVOA131
Dibenzofuran	ND	mg/Kg	0.50	1.5	12/12/96	SMSSVOA131
2,4-Dinitrotoluene	ND	mg/Kg	2.5	1.5	12/12/96	SMSSVOA131
Fluorene	ND	mg/Kg	0.50	1.5	12/12/96	SMSSVOA131
4-Chlorophenyl-phenylether	ND	mg/Kg	0.50	1.5	12/12/96	SMSSVOA131
Diethylphthalate	ND	mg/Kg	0.50	1.5	12/12/96	SMSSVOA131
4-Nitrophenol	ND	mg/Kg	10	1.5	12/12/96	SMSSVOA131
4,6-Dinitro-2-methylphenol	ND	mg/Kg	10	1.5	12/12/96	SMSSVOA131
n-Nitrosodiphenylamine	ND	mg/Kg	0.50	1.5	12/12/96	SMSSVOA131
4-Nitroaniline	ND	mg/Kg	10	1.5	12/12/96	SMSSVOA131
4-Bromophenyl-phenylether	ND	mg/Kg	0.50	1.5	12/12/96	SMSSVOA131
Hexachlorobenzene	ND	mg/Kg	0.50	1.5	12/12/96	SMSSVOA131
Pentachlorophenol	ND	mg/Kg	10	1.5	12/12/96	SMSSVOA131
2,4-Dinitrophenol	ND	mg/Kg	10	1.5	12/12/96	SMSSVOA131
Phenanthrene	ND	mg/Kg	0.50	1.5	12/12/96	SMSSVOA131
nthracene	ND	mg/Kg	0.50	1.5	12/12/96	SMSSVOA131
butylphthalate	22B	mg/Kg	5.0	1.5	12/12/96	SMSSVOA131
.nthene	ND	mg/Kg	0.50	1.5	12/12/96	SMSSVOA131
ne	ND	mg/Kg	0.50	1.5	12/12/96	SMSSVOA131
Butylbenzylphthalate	ND	mg/Kg	0.50	1.5	12/12/96	SMSSVOA131
Benzo(a)anthracene	ND	mg/Kg	0.50	1.5	12/12/96	SMSSVOA131
Chrysene	ND	mg/Kg	0.50	1.5	12/12/96	SMSSVOA131
3,3'-Dichlorobenzidine	ND	mg/Kg	10	1.5	12/12/96	SMSSVOA131
bis(2-Ethylhexyl)phthalate	ND	mg/Kg	2.5	1.5	12/12/96	SMSSVOA131
Di-n-octyl phthalate	ND	mg/Kg	0.50	1.5	12/12/96	SMSSVOA131
Benzo(b)+(k)fluoranthene	ND	mg/Kg	0.50	1.5	12/12/96	SMSSVOA131
1-Methylnaphthalene	ND	mg/Kg	1.0	1.5	12/12/96	SMSSVOA131
Benzo(a)pyrene	ND	mg/Kg	0.50	1.5	12/12/96	SMSSVOA131
Indeno(1,2,3-cd)pyrene	ND	mg/Kg	1.0	1.5	12/12/96	SMSSVOA131
Benzo(g,h,i)perylene	ND	mg/Kg	1.0	1.5	12/12/96	SMSSVOA131
2,3,4,6-Tetrachlorophenol	ND	mg/Kg	2.5	1.5	12/12/96	SMSSVOA131
Azobenzene	ND	mg/Kg	1.0	1.5	12/12/96	SMSSVOA131
Dibenz(a,h)anthracene	ND	mg/Kg	1.0	1.5	12/12/96	SMSSVOA131

Lab ID: 9611215-01D **Collected:** 11/22/96 14:06:00
Sample ID: CA47A-7-96-1122-1406 **Matrix:** SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
% SOLIDS(TCLP XT)EPA 160.3	100.00	% (Percent)				
CVAA Hg XT/SW846 7471	12/11/96	N/A				
MERCURY (CVAA)/SW846 7471						
Mercury	ND	mg/Kg	0.15	1.0	12/11/96	M96211
Metal(ICP) DIG /SW846 3050	11/26/96	N/A				
TALS-ICP/SW846 6010						
, Ag	ND	mg/Kg	1.0	1.0	11/28/96	M96166
num, Al	NT	mg/Kg	25			M96166
ic, As	ND	mg/Kg	3.0	1.0	11/29/96	M96166
Barium, Ba	147	mg/Kg	0.50	1.0	11/29/96	M96166
Beryllium, Be	NT	mg/Kg	0.50			M96166

ID: 9611215-01D **Collected:** 11/22/96 14:06:00
Sample ID: CA47A-7-96-1122-1406 **Matrix:** SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
METALS-ICP/SW846 6010						
Calcium, Ca	NT	mg/Kg	15			M96166
Cadmium, Cd	ND	mg/Kg	0.20	1.0	11/28/96	M96166
Cobalt, Co	NT	mg/Kg	0.50			M96166
Chromium, Cr	8.8	mg/Kg	1.0	1.0	11/28/96	M96166
Copper, Cu	NT	mg/Kg	0.50			M96166
Iron, Fe	NT	mg/Kg	15			M96166
Potassium, K	NT	mg/Kg	10			M96166
Magnesium, Mg	NT	mg/Kg	10			M96166
Manganese, Mn	NT	mg/Kg	0.25			M96166
Sodium, Na	NT	mg/Kg	15			M96166
Nickel, Ni	6.3	mg/Kg	2.0	1.0	11/28/96	M96166
Lead, Pb	ND	mg/Kg	2.0	1.0	11/28/96	M96166
Antimony, Sb	NT	mg/Kg	1.5			M96166
Selenium, Se	ND	mg/Kg	2.5	1.0	11/28/96	M96166
Vanadium, V	NT	mg/Kg	0.15			M96166
Zinc, Zn	NT	mg/Kg	5.0			M96166
TCLP (ICP) DIG/1311/3005	11/27/96	N/A				
TCLP EXTRACTION/TCLP 1311	11/26/96	N/A				
TCLP LEAD(FAA)/1311/7420						
Lead, Pb	ND	mg/L	0.10	1.0	12/02/96	M96169
TCLP METALS/1311/SW8466010						
Arsenic, As	ND	mg/L	0.40	1.0	11/29/96	M96169,M96171
Barium, Ba	0.6	mg/L	0.50	1.0	11/28/96	M96169,M96171
ıdmium, Cd	0.010	mg/L	0.0050	1.0	11/27/96	M96169,M96171
ıium, Cr	0.02	mg/L	0.020	1.0	11/27/96	M96169,M96171
Pb	NT	mg/L	0.050			M96169,M96171
ury, Hg	ND	mg/L	0.0020	1.0	11/29/96	M96169,M96171
Selenium, Se	ND	mg/L	0.050	1.0	11/27/96	M96169,M96171
Silver, Ag	ND	mg/L	0.040	1.0	11/27/96	M96169,M96171
TCLP(CVAA)Hg XT/SW846 7471	11/27/96	N/A				

Lab ID: 9611215-02A **Collected:** 11/22/96 14:07:00
Sample ID: CA47A/8-96-1122-1407 **Matrix:** SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
BTEX/SW846 8020A						
Benzene	ND	mg/Kg	0.0010	5.0	12/06/96	SBTXME140
Toluene	ND	mg/Kg	0.0010	5.0	12/06/96	SBTXME140
Ethylbenzene	ND	mg/Kg	0.0010	5.0	12/06/96	SBTXME140
P-&m-Xylene	ND	mg/Kg	0.0010	5.0	12/06/96	SBTXME140
O-Xylene	ND	mg/Kg	0.0010	5.0	12/06/96	SBTXME140
Diesel Range OG Soil/M8015						
Diesel Range OG in Soil	ND	mg/Kg	50	1.0	12/03/96	SDRO008

Lab ID: 9611215-02B **Collected:** 11/22/96 14:07:00
Sample ID: CA47A/8-96-1122-1407 **Matrix:** SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
DS(TCLP XT)EPA 160.3	100.00	% (Percent)				
(ICP) DIG/1311/3005	11/27/96	N/A				
TCLP EXTRACTION/TCLP 1311	11/26/96	N/A				

ID: 9611215-02B **Collected:** 11/22/96 14:07:00
Sample ID: CA47A/8-96-1122-1407 **Matrix:** SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
TCLP LEAD(FAA)/1311/7420						
Lead, Pb	ND	mg/L	0.10	1.0	12/02/96	M96169
TCLP METALS/1311/SW8466010						
Arsenic, As	ND	mg/L	0.40	5.0	11/29/96	M96169,M96171
Barium, Ba	1.0	mg/L	0.50	1.0	11/28/96	M96169,M96171
Cadmium, Cd	ND	mg/L	0.0050	1.0	11/27/96	M96169,M96171
Chromium, Cr	0.03	mg/L	0.020	1.0	11/27/96	M96169,M96171
Lead, Pb	NT	mg/L	0.050			M96169,M96171
Mercury, Hg	ND	mg/L	0.0020	1.0	11/29/96	M96169,M96171
Selenium, Se	ND	mg/L	0.050	1.0	11/27/96	M96169,M96171
Silver, Ag	ND	mg/L	0.040	1.0	11/27/96	M96169,M96171
TCLP(CVAA)Hg XT/SW846 7471	11/27/96	N/A				

Lab ID: 9611215-03A **Collected:** 11/22/96 14:02:00
Sample ID: CA47A/3-96-1122-1402 **Matrix:** SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
BTEX/SW846 8020A						
Benzene	ND	mg/Kg	0.0010	5.0	12/06/96	SBTXME140
ene	ND	mg/Kg	0.0010	5.0	12/06/96	SBTXME140
enzene	ND	mg/Kg	0.0010	5.0	12/06/96	SBTXME140
-Xylene	ND	mg/Kg	0.0010	5.0	12/06/96	SBTXME140
O-Xylene	ND	mg/Kg	0.0010	5.0	12/06/96	SBTXME140
Diesel Range OG Soil/M8015						
Diesel Range OG in Soil	ND	mg/Kg	50	1.0	12/03/96	SDRO008

Lab ID: 9611215-04A **Collected:** 11/22/96 14:04:00
Sample ID: CA47A/5-96-1122-1404 **Matrix:** SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
BTEX/SW846 8020A						
Benzene	0.0081	mg/Kg	0.0010	5.0	12/06/96	SBTXME140
Toluene	0.0055	mg/Kg	0.0010	5.0	12/06/96	SBTXME140
Ethylbenzene	ND	mg/Kg	0.0010	5.0	12/06/96	SBTXME140
P-&m-Xylene	0.013	mg/Kg	0.0010	5.0	12/06/96	SBTXME140
O-Xylene	ND	mg/Kg	0.0010	5.0	12/06/96	SBTXME140
Diesel Range OG Soil/M8015						
Diesel Range OG in Soil	ND	mg/Kg	50	1.0	12/04/96	SDRO008

Fred L. Shore, Ph.D.
VP of Laboratory Operations

WORKORDER COMMENTS

DATE : 12/23/96
WORKORDER:

DEFINITIONS/DATA QUALIFIERS

The following are definitions, abbreviations, and data qualifiers which may have been utilized in your report:

ND = Analyte "not detected" in analysis at the sample specific detection limit.
D_F = Sample "dilution factor"
NT = Analyte "not tested" per client request.
B = Analyte was also detected in laboratory method QC blank.
E = Analyte concentration (result) is an estimated value or exceeds analysis calibration range.
LIMIT = The minimum amount of the analyte that AAL can detect utilizing the specified analysis.

Please Note: Multiply the "Limit" value (AAL's Detection Limit) by Dilution Factor (D_F) to obtain the sample specific Detection Limit.

*** Analytical results reported pertain only to the samples provided ***
*** for analysis and may not represent actual field conditions. ***
*** ***
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REPORT COMMENTS

SAGA ANALYTICAL LABORATORIES

Chain of Custody Record

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Samplers: (Signature) [illegible]

Sample No.																		
[illegible]																		
1A-5	[illegible]	[illegible]	200	Soil	[illegible]				X	X	X	X						
[illegible]																		
2A-3	[illegible]	[illegible]	201	Soil	[illegible]				X				X	X				
[illegible]																		
3A	[illegible]	[illegible]	202	Soil	[illegible]				X				X					
4A	[illegible]	[illegible]	203	Soil	[illegible]				X				X					
[illegible]																		
[illegible]																		
[illegible]																		
[illegible]																		
[illegible]																		

Relinquished by:	Date	Received by:	Relinquished by:	Date	Received by:
Signature [illegible]	[illegible]	Signature [illegible]	Signature	[illegible]	Signature
Printed [illegible]	Time 3:00	Printed	Printed	Time [illegible]	Printed
Company [illegible]		Company [illegible]	Company		Company
Reason [illegible]		Reason [illegible]	Reason		Reason

Method of Shipment: Bus

Shipment No.:

Special Instructions:

Comments:

All analysis samples to include:

- [ ] Report of analysis(es)
- [ ] Signature copy
- [ ] Signature copy (original(s))
- [ ] Returned samples

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Report Generated:
December 23, 1996 11:17

CERTIFICATE OF ANALYSIS
RESULTS BY SAMPLE

SENT TO: CHEYENNE BUILDING CONTRACTORS
P.O. BOX 418
CLOVIS, NM 88101

WORKORDER # : 9612015
WORK ID : DACA47-95-D-0035
CLIENT CODE : CHE10
DATE RECEIVED : 12/03/96

ATTN: MIKE LANDGRAF

Confirmatory

Lab ID: 9612015-01A
Sample ID: CA57/7-96-1202-0951
Collected: 12/02/96 09:51:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
Diesel Range OG Soil/M8015						
Diesel Range OG in Soil	ND	mg/Kg	50	1.0	12/17/96	SDRO009

Lab ID: 9612015-01B
Sample ID: CA57/7-96-1202-0951
Collected: 12/02/96 09:51:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
VOLATILES/SW846 8260						
Dichlorodifluoromethane	ND	mg/Kg	0.010	5.0	12/10/96	SMSVOA410
Chloromethane	ND	mg/Kg	0.0050	5.0	12/10/96	SMSVOA410
Iodomethane	ND	mg/Kg	0.0050	5.0	12/10/96	SMSVOA410
Acetone	ND	mg/Kg	0.0050	5.0	12/10/96	SMSVOA410
Bromomethane	ND	mg/Kg	0.0050	5.0	12/10/96	SMSVOA410
Vinyl Chloride	ND	mg/Kg	0.0050	5.0	12/10/96	SMSVOA410
Chloroethane	ND	mg/Kg	0.0050	5.0	12/10/96	SMSVOA410
Trichlorofluoromethane	ND	mg/Kg	0.0050	5.0	12/10/96	SMSVOA410
Freon 113	ND	mg/Kg	0.0050	5.0	12/10/96	SMSVOA410
Carbon Disulfide	ND	mg/Kg	0.020	5.0	12/10/96	SMSVOA410
Acrolein	ND	mg/Kg	0.010	5.0	12/10/96	SMSVOA410
Methylene Chloride	ND	mg/Kg	0.0010	5.0	12/10/96	SMSVOA410
1,1-Dichloroethene	ND	mg/Kg	0.0010	5.0	12/10/96	SMSVOA410
1,1-Dichloroethane	ND	mg/Kg	0.020	5.0	12/10/96	SMSVOA410
Acrylonitrile	ND	mg/Kg	0.0010	5.0	12/10/96	SMSVOA410
trans-1,2-Dichloroethene	ND	mg/Kg	0.0010	5.0	12/10/96	SMSVOA410
Chloroform	ND	mg/Kg	0.0010	5.0	12/10/96	SMSVOA410
1,2-Dichloroethane	ND	mg/Kg	0.0050	5.0	12/10/96	SMSVOA410
Vinyl Acetate	ND	mg/Kg	0.0010	5.0	12/10/96	SMSVOA410
cis-1,2-Dichloroethene	ND	mg/Kg	0.0050	5.0	12/10/96	SMSVOA410
2-Butanone (MEK)	ND	mg/Kg	0.0010	5.0	12/10/96	SMSVOA410
1,1,1-Trichloroethane	ND	mg/Kg	0.0010	5.0	12/10/96	SMSVOA410
Carbon Tetrachloride	ND	mg/Kg	0.0010	5.0	12/10/96	SMSVOA410
Bromodichloromethane	ND	mg/Kg	0.0010	5.0	12/10/96	SMSVOA410
1,2-Dichloropropane	ND	mg/Kg	0.0010	5.0	12/10/96	SMSVOA410
Dibromomethane	ND	mg/Kg	0.0010	5.0	12/10/96	SMSVOA410
trans-1,3-Dichloropropene	ND	mg/Kg	0.0010	5.0	12/10/96	SMSVOA410
Trichloroethene	ND	mg/Kg	0.0010	5.0	12/10/96	SMSVOA410
Chlorodibromomethane	ND	mg/Kg	0.0050	5.0	12/10/96	SMSVOA410
Ethyl Methacrylate	ND	mg/Kg	0.0050	5.0	12/10/96	SMSVOA410
2-Chloroethylvinyl Ether	ND	mg/Kg	0.0050	5.0	12/10/96	SMSVOA410

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ID: 9612015-01B
Sample ID: CA57/7-96-1202-0951

Collected: 12/02/96 09:51:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
VOLATILES/SW846 8260						
1,1,2-Trichloroethane	ND	mg/Kg	0.0010	5.0	12/10/96	SMSVOA410
Benzene	ND	mg/Kg	0.0010	5.0	12/10/96	SMSVOA410
cis-1,3-Dichloropropene	ND	mg/Kg	0.0010	5.0	12/10/96	SMSVOA410
Bromoform	ND	mg/Kg	0.0010	5.0	12/10/96	SMSVOA410
4-Methyl-2-Pentanone (MIBK)	ND	mg/Kg	0.0050	5.0	12/10/96	SMSVOA410
Tetrachloroethene	ND	mg/Kg	0.0010	5.0	12/10/96	SMSVOA410
1,1,2,2-Tetrachloroethane	ND	mg/Kg	0.0010	5.0	12/10/96	SMSVOA410
1,2-Dibromoethane	ND	mg/Kg	0.0010	5.0	12/10/96	SMSVOA410
2-Hexanone (MBK)	ND	mg/Kg	0.0050	5.0	12/10/96	SMSVOA410
1,1,1,2-Tetrachloroethane	ND	mg/Kg	0.0010	5.0	12/10/96	SMSVOA410
Toluene	ND	mg/Kg	0.0010	5.0	12/10/96	SMSVOA410
Chlorobenzene	ND	mg/Kg	0.0010	5.0	12/10/96	SMSVOA410
Ethylbenzene	ND	mg/Kg	0.0010	5.0	12/10/96	SMSVOA410
1,4-Dichloro-2-Butene	ND	mg/Kg	0.010	5.0	12/10/96	SMSVOA410
Styrene	ND	mg/Kg	0.0010	5.0	12/10/96	SMSVOA410
P/M Xylene	ND	mg/Kg	0.0020	5.0	12/10/96	SMSVOA410
O-Xylene	ND	mg/Kg	0.0010	5.0	12/10/96	SMSVOA410
1,2,3-Trichloropropane	ND	mg/Kg	0.0010	5.0	12/10/96	SMSVOA410
Methyl-tert Butyl Ether	ND	mg/Kg	0.010	5.0	12/10/96	SMSVOA410
1,2-Dichlorobenzene	ND	mg/Kg	0.0010	5.0	12/10/96	SMSVOA410
1,3-Dichlorobenzene	ND	mg/Kg	0.0010	5.0	12/10/96	SMSVOA410
1,4-Dichlorobenzene	ND	mg/Kg	0.0010	5.0	12/10/96	SMSVOA410

ID: 9612015-01C
Sample ID: CA57/7-96-1202-0951

Collected: 12/02/96 09:51:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
SVOA(SOX) Soil/SW846 8270B	12/03/96	N/A				
n-Nitrosodimethylamine	ND	mg/Kg	1.0	1.4	12/14/96	SMSSVOA131
Pyridine	ND	mg/Kg	10	1.4	12/14/96	SMSSVOA131
Aniline	ND	mg/Kg	10	1.4	12/14/96	SMSSVOA131
bis(2-Chloroethyl) Ether	ND	mg/Kg	0.50	1.4	12/14/96	SMSSVOA131
2-Chlorophenol	ND	mg/Kg	0.50	1.4	12/14/96	SMSSVOA131
1,3-Dichlorobenzene	ND	mg/Kg	0.50	1.4	12/14/96	SMSSVOA131
1,4-Dichlorobenzene	ND	mg/Kg	0.50	1.4	12/14/96	SMSSVOA131
Phenol	ND	mg/Kg	0.50	1.4	12/14/96	SMSSVOA131
1,2-Dichlorobenzene	ND	mg/Kg	0.50	1.4	12/14/96	SMSSVOA131
Benzyl Alcohol	ND	mg/Kg	10	1.4	12/14/96	SMSSVOA131
bis(2-Chloroisopropyl) Ether	ND	mg/Kg	1.0	1.4	12/14/96	SMSSVOA131
2-Methylphenol / O-Cresol	ND	mg/Kg	0.50	1.4	12/14/96	SMSSVOA131
Hexachloroethane	ND	mg/Kg	0.50	1.4	12/14/96	SMSSVOA131
n-Nitroso-di-n-propylamine	ND	mg/Kg	0.50	1.4	12/14/96	SMSSVOA131
Nitrobenzene	ND	mg/Kg	0.50	1.4	12/14/96	SMSSVOA131
3/4 Methylphenol / M/P-Cresol	ND	mg/Kg	0.50	1.4	12/14/96	SMSSVOA131
Isophorone	ND	mg/Kg	0.50	1.4	12/14/96	SMSSVOA131
2-Nitrophenol	ND	mg/Kg	1.0	1.4	12/14/96	SMSSVOA131
bis(2-Chloroethoxy) Methane	ND	mg/Kg	0.50	1.4	12/14/96	SMSSVOA131
2,4-Dimethylphenol	ND	mg/Kg	1.0	1.4	12/14/96	SMSSVOA131
1,2,4-Trichlorobenzene	ND	mg/Kg	0.50	1.4	12/14/96	SMSSVOA131
Naphthalene	ND	mg/Kg	0.50	1.4	[illegible]/96	SMSSVOA131
Benzoic Acid	ND	mg/Kg	10	1.4	12/14/96	SMSSVOA131
2,4-Dichlorophenol	ND	mg/Kg	1.0	1.4	12/14/96	SMSSVOA131
4-Chloroaniline	ND	mg/Kg	10	1.4	12/14/96	SMSSVOA131
Hexachlorobutadiene	ND	mg/Kg	0.50	1.4	12/14/96	SMSSVOA131
Methylnaphthalene	ND	mg/Kg	0.50	1.4	12/14/96	SMSSVOA131
4-Chloro-3-methylphenol	ND	mg/Kg	0.50	1.4	12/14/96	SMSSVOA131
Hexachlorocyclopentadiene	ND	mg/Kg	10	1.4	12/14/96	SMSSVOA131

ID: 9612015-01C
Sample ID: CA57/7-96-1202-0951

Collected: 12/02/96 09:51:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
SVOA(SOX) Soil/SW846 8270B						
2,4,6-Trichlorophenol	ND	mg/Kg	1.0	1.4	12/14/96	SMSSVOA131
2,4,5-Trichlorophenol	ND	mg/Kg	1.0	1.4	12/14/96	SMSSVOA131
2-Chloronaphthalene	ND	mg/Kg	0.50	1.4	12/14/96	SMSSVOA131
2-Nitroaniline	ND	mg/Kg	1.0	1.4	12/14/96	SMSSVOA131
Acenaphthylene	ND	mg/Kg	0.50	1.4	12/14/96	SMSSVOA131
Dimethylphthalate	ND	mg/Kg	0.50	1.4	12/14/96	SMSSVOA131
2,6-Dinitrotoluene	ND	mg/Kg	1.0	1.4	12/14/96	SMSSVOA131
Acenaphthene	ND	mg/Kg	0.50	1.4	12/14/96	SMSSVOA131
3-Nitroaniline	ND	mg/Kg	10	1.4	12/14/96	SMSSVOA131
Dibenzofuran	ND	mg/Kg	0.50	1.4	12/14/96	SMSSVOA131
2,4-Dinitrotoluene	ND	mg/Kg	2.5	1.4	12/14/96	SMSSVOA131
Fluorene	ND	mg/Kg	0.50	1.4	12/14/96	SMSSVOA131
4-Chlorophenyl-phenylether	ND	mg/Kg	0.50	1.4	12/14/96	SMSSVOA131
Diethylphthalate	ND	mg/Kg	0.50	1.4	12/14/96	SMSSVOA131
4-Nitrophenol	ND	mg/Kg	10	1.4	12/14/96	SMSSVOA131
4,6-Dinitro-2-methylphenol	ND	mg/Kg	10	1.4	12/14/96	SMSSVOA131
n-Nitrosodiphenylamine	ND	mg/Kg	0.50	1.4	12/14/96	SMSSVOA131
4-Nitroaniline	ND	mg/Kg	10	1.4	12/14/96	SMSSVOA131
4-Bromophenyl-phenylether	ND	mg/Kg	0.50	1.4	12/14/96	SMSSVOA131
Hexachlorobenzene	ND	mg/Kg	0.50	1.4	12/14/96	SMSSVOA131
Pentachlorophenol	ND	mg/Kg	10	1.4	12/14/96	SMSSVOA131
2,4-Dinitrophenol	ND	mg/Kg	10	1.4	12/14/96	SMSSVOA131
Phenanthrene	ND	mg/Kg	0.50	1.4	12/14/96	SMSSVOA131
Anthracene	ND	mg/Kg	0.50	1.4	12/14/96	SMSSVOA131
Di-n-butylphthalate	13B	mg/Kg	5.0	1.4	12/14/96	SMSSVOA131
'uoranthene	ND	mg/Kg	0.50	1.4	12/14/96	SMSSVOA131
yrene	ND	mg/Kg	0.50	1.4	12/14/96	SMSSVOA131
Butylbenzylphthalate	ND	mg/Kg	0.50	1.4	12/14/96	SMSSVOA131
Benzo(a)anthracene	ND	mg/Kg	0.50	1.4	12/14/96	SMSSVOA131
Chrysene	ND	mg/Kg	0.50	1.4	12/14/96	SMSSVOA131
3,3'-Dichlorobenzidine	ND	mg/Kg	0.50	1.4	12/14/96	SMSSVOA131
bis(2-Ethylhexyl)phthalate	ND	mg/Kg	10	1.4	12/14/96	SMSSVOA131
Di-n-octyl phthalate	ND	mg/Kg	2.5	1.4	12/14/96	SMSSVOA131
Benzo(b)+(k)fluoranthene	ND	mg/Kg	0.50	1.4	12/14/96	SMSSVOA131
1-Methylnaphthalene	ND	mg/Kg	0.50	1.4	12/14/96	SMSSVOA131
Benzo(a)pyrene	ND	mg/Kg	0.50	1.4	12/14/96	SMSSVOA131
Indeno(1,2,3-cd)pyrene	ND	mg/Kg	1.0	1.4	12/14/96	SMSSVOA131
Benzo(g,h,i)perylene	ND	mg/Kg	1.0	1.4	12/14/96	SMSSVOA131
2,3,4,6-Tetrachlorophenol	ND	mg/Kg	2.5	1.4	12/14/96	SMSSVOA131
Azobenzene	ND	mg/Kg	1.0	1.4	12/14/96	SMSSVOA131
Dibenz(a,h)anthracene	ND	mg/Kg	1.0	1.4	12/14/96	SMSSVOA131

Lab ID: 9612015-01D
Sample ID: CA57/7-96-1202-0951

Collected: 12/02/96 09:51:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
% SOLIDS(TCLP XT)EPA 160.3	100.00	% (Percent)				
ARSENIC (GFAA)/SW846 7060						
Arsenic, As	0.78	mg/Kg	0.25	2.0	12/12/96	M96202
CVAA Hg XT/SW846 7471	12/05/96	N/A				
MERCURY (CVAA)/SW846 7471						
Mercury	ND	mg/Kg	0.15	1.0	12/06/96	M96195
Metal(ICP) DIG /SW846 3050	12/09/96	N/A				
METALS-ICP/SW846 6010						
Silver, Ag	1.4	mg/Kg	1.0	1.0	12/11/96	M96202
Aluminum, Al	NT	mg/Kg	25			M96202
Arsenic, As	NT	mg/Kg	3.0			M96202

Lab ID: 9612015-01D
Sample ID: CA57/7-96-1202-0951

Collected: 12/02/96 09:51:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
METALS-ICP/SW846 6010						
Barium, Ba	162	mg/Kg	0.50	1.0	12/11/96	M96202
Beryllium, Be	NT	mg/Kg	0.50			M96202
Calcium, Ca	NT	mg/Kg	15			M96202
Cadmium, Cd	0.21	mg/Kg	0.20	1.0	12/11/96	M96202
Cobalt, Co	NT	mg/Kg	0.50			M96202
Chromium, Cr	8.7	mg/Kg	1.0	1.0	12/11/96	M96202
Copper, Cu	NT	mg/Kg	0.50			M96202
Iron, Fe	NT	mg/Kg	15			M96202
Potassium, K	NT	mg/Kg	10			M96202
Magnesium, Mg	NT	mg/Kg	10			M96202
Manganese, Mn	NT	mg/Kg	0.25			M96202
Sodium, Na	NT	mg/Kg	15			M96202
Nickel, Ni	6.4	mg/Kg	2.0	1.0	12/11/96	M96202
Lead, Pb	9.3	mg/Kg	2.0	1.0	12/11/96	M96202
Antimony, Sb	NT	mg/Kg	1.5			M96202
Selenium, Se	ND	mg/Kg	2.5	1.0	12/11/96	M96202
Vanadium, V	NT	mg/Kg	0.15			M96202
Zinc, Zn	NT	mg/Kg	5.0			M96202
TCLP (ICP) DIG/1311/3005	12/04/96	N/A				
TCLP EXTRACTION/TCLP 1311	12/03/96	N/A				
TCLP METALS/1311/SW8466010						
Arsenic, As	ND	mg/L	0.40	1.0	12/05/96	M96185, M96194
Barium, Ba	0.8	mg/L	0.50	1.0	12/05/96	M96185, M96194
Cadmium, Cd	ND	mg/L	0.0050	1.0	12/05/96	M96185, M96194
Chromium, Cr	0.02B	mg/L	0.020	1.0	12/05/96	M96185, M96194
Lead, Pb	ND	mg/L	0.050	1.0	12/05/96	M96185, M96194
Mercury, Hg	ND	mg/L	0.0020	1.0	12/06/96	M96185, M96194
Selenium, Se	ND	mg/L	0.050	1.0	12/05/96	M96185, M96194
Silver, Ag	ND	mg/L	0.040	1.0	12/05/96	M96185, M96194
TCLP(CVAA)Hg XT/SW846 7471	12/05/96	N/A				

Lab ID: 9612015-02A
Sample ID: CA57/8-96-1202-0952

Collected: 12/02/96 09:52:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
% SOLIDS(TCLP XT)EPA 160.3	100.00	% (Percent)				
Diesel Range OG Soil/M8015						
Diesel Range OG in Soil	ND	mg/Kg	50	1.0	12/17/96	SDRO009
TCLP (ICP) DIG/1311/3005	12/04/96	N/A				
TCLP EXTRACTION/TCLP 1311	12/03/96	N/A				
TCLP METALS/1311/SW8466010						
Arsenic, As	ND	mg/L	0.40	1.0	12/05/96	M96185,M96194
Barium, Ba	1.2	mg/L	0.50	1.0	12/05/96	M96185,M96194
Cadmium, Cd	ND	mg/L	0.0050	1.0	12/05/96	M96185,M96194
Chromium, Cr	0.03B	mg/L	0.020	1.0	12/05/96	M96185,M96194
Lead, Pb	ND	mg/L	0.050	1.0	12/05/96	M96185,M96194
Mercury, Hg	ND	mg/L	0.0020	1.0	12/06/96	M96185,M96194
Selenium, Se	ND	mg/L	0.050	1.0	12/05/96	M96185,M96194
Silver, Ag	ND	mg/L	0.040	1.0	12/05/96	M96185,M96194
TCLP(CVAA)Hg XT/SW846 7471	12/05/96	N/A				

ID: 9612015-02B
Sample ID: CA57/8-96-1202-0952

Collected: 12/02/96 09:52:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
BTEX/SW846 8020A						
Benzene	ND	mg/Kg	0.0010	5.0	12/13/96	SMSVOA411
Toluene	ND	mg/Kg	0.0010	5.0	12/13/96	SMSVOA411
Ethylbenzene	ND	mg/Kg	0.0010	5.0	12/13/96	SMSVOA411
P-&m-Xylene	ND	mg/Kg	0.0010	5.0	12/13/96	SMSVOA411
O-Xylene	ND	mg/Kg	0.0010	5.0	12/13/96	SMSVOA411

Lab ID: 9612015-03A
Sample ID: CA57/1-96-1202-0945

Collected: 12/02/96 09:45:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
BTEX/SW846 8020A						
Benzene	ND	mg/Kg	0.0010	5.0	12/13/96	SMSVOA411
Toluene	ND	mg/Kg	0.0010	5.0	12/13/96	SMSVOA411
Ethylbenzene	ND	mg/Kg	0.0010	5.0	12/13/96	SMSVOA411
P-&m-Xylene	ND	mg/Kg	0.0010	5.0	12/13/96	SMSVOA411
O-Xylene	ND	mg/Kg	0.0010	5.0	12/13/96	SMSVOA411
Diesel Range OG Soil/M8015						
Diesel Range OG in Soil	ND	mg/Kg	50	1.0	12/17/96	SDRO009

Lab ID: 9612015-04A
Sample ID: CA57/5-96-1202-0949

Collected: 12/02/96 09:49:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
BTEX/SW846 8020A						
Benzene	ND	mg/Kg	0.0010	5.0	12/13/96	SMSVOA411
Toluene	ND	mg/Kg	0.0010	5.0	12/13/96	SMSVOA411
Ethylbenzene	ND	mg/Kg	0.0010	5.0	12/13/96	SMSVOA411
P-&m-Xylene	ND	mg/Kg	0.0010	5.0	12/13/96	SMSVOA411
O-Xylene	ND	mg/Kg	0.0010	5.0	12/13/96	SMSVOA411
Diesel Range OG Soil/M8015						
Diesel Range OG in Soil	ND	mg/Kg	50	1.0	12/17/96	SDRO009

Fred L. Shore, Ph.D.
VP of Laboratory Operations

WORKORDER COMMENTS

DATE : 12/23/96
WORKORDER: 9612015

DEFINITIONS/DATA QUALIFIERS

The following are definitions, abbreviations, and data qualifiers which may have been utilized in your report:

ND = Analyte "not detected" in analysis at the sample specific detection limit.
D_F = Sample "dilution factor"
NT = Analyte "not tested" per client request.
B = Analyte was also detected in laboratory method QC blank.
E = Analyte concentration (result) is an estimated value or exceeds analysis calibration range.
LIMIT = The minimum amount of the analyte that AAL can detect utilizing the specified analysis.

Please Note: Multiply the "Limit" value (AAL's Detection Limit) by Dilution Factor (D_F) to obtain the sample specific Detection Limit.

*** Analytical results reported pertain only to the samples provided ***
*** for analysis and may not represent actual field conditions. ***
*** ***
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** written approval of Assaigai Analytical Inc. ***
*** ***

ORT COMMENTS

ase Note: Fractions 02B, 03A and 04A were analyzed by EPA method 8240 for X compounds.

SAIGAI ANALYTICAL LABORATORIES

Chain of Custody Record

Lab Job no.: 12015 Date 12/2-3/96

Page ____ of ____

7300 JEFFERSON, N.E.
ALBUQUERQUE, NEW MEXICO 87
(505) 345-8964

3332 WEDGEWOOD
EL PASO, TEXAS 79925
(915) 593-6000

1910 N. BIG SPRING
MIDLAND, TEXAS 79705
(915) 570-1116

MELQUIADES ALANIS
6411 LOCAL UNO
CIUDAD JUAREZ, CHIHUAHUA MEXICO 32320

Client: Cheyenne / ICF-2, INC.

Address: 1712 S Prince St

City / State / Zip: Clovis NM 88101

Project Name / Number: DACA47-95-D-0035

Contract / Purchase Order / Quote: Dan Moore

Project Manager / Contact: Mike Landgraf

Telephone No.: 505 763 1910

Fax No.: 505 769-1780

Samplers: (Signature)

AAL Fraction Number	Field Sample Number / Location	Date	Time	Sample Type	Type / Size of Container	Preservation Temp.	Preservation Chemical	No. of Containers		TPH 8015 MOD DRO	8260 - VOCs	8270 - SVOCs	CCIC & 7470 Cr, Cd, Pb		1311 TCLP	6020 - RCRA		Remarks
1A-D	CA57/7-96-1202-0951	12/2/96	9:51	Soil	B = 8oz, 1 = 4oz glass			4		X	X	X	X					site confirmatory
2A,B	CA57/8-96-1202-0952	12/2/96	9:52	Soil	1-8oz, 1-4oz glass			2		X					X	X		excavated confirmatory
3A	CA57/1-96-1202-0945	12/2/96	9:45	Soil	1=4oz glass			1		X						X		correlation
4A	CA57/5-96-1202-0949	12/2/96	9:49	Soil	1=4oz glass			1		X						X		correlation

Relinquished by:	Date	Received by:	Relinquished by:	Date	Received by:
Signature: [signature]	12/2/96	Signature: [signature]	Signature:	12/3/96	Signature: [signature]
Printed: Troy Morales	Time	Printed: S. W. Gonzales	Printed:	Time 941	Printed:
Company: Cheyenne		Company: IMMC Coacher	Company: IMMC		Company: AAL
Reason: Shipment		Reason: Shipment	Reason:		Reason:

Method of Shipment: Bus

Shipment No.:

Special Instructions:

Comments:

After analysis, samples are to be:

- ☐ Disposed of (additional fee)
- ☐ Stored (30 days max)
- ☐ Stored over 30 days (additional fee)
- ☐ Returned to customer

COURIER

ASSAIGAI ANALYTICAL LABORATORIES

Chain of Custody Record

Lab Job no.: _____ Date _____

Page _____ of _____

(505) 345-8964

3332 WEDGEWOOD
EL PASO, TEXAS 79925
(915) 593-6000

1910 N. BIG SPRING
MIDLAND, TEXAS 79705
(915) 570-1116

MELQUIADES ALANIS
6411 LOCAL UNO
CIUDAD JUAREZ, CHIHUAHUA MEXICO 32320

Client: Cheyenne / ICI-2, INC.
Address: 1712 S Prince St
City / State / Zip: Clovis NM 88101
Project Name / Number: DMCA 97-95-B-0035
Contract / Purchase Order / Quote: Don Moore

Project Manager / Contact: Mike Laughnet
Telephone No.: 505 763 1910
Fax No.: 505 769 0780
Samplers: (Signature)

Field Sample Number / Location	Date	Time	Sample Type	Type / Size of Container	Preservation Temp.	Preservation Chemical	No. of Containers	TPH 8015 MOD	8260 VOBS	8270 SVOCS	601/8 7475 CYANIDE	1311 TCLP	6020 ICP/MS		Remarks
CAS 7/7-96-1202-0951	12/2/96	9:51	Soil	1-8oz, 1-4oz glass			4	X	X	X	X				site confirmatory
CAS 7/8-96-1202-0952	12/2/96	9:52	Soil	1-8oz, 1-4oz glass			2	X				X	X		investigative confirmatory
CAS 7/1-96-1202-0945	12/2/96	9:45	Soil	1-4oz glass			1	X					X		correlation
CAS 7/5-96-1202-0949	12/2/96	9:49	Soil	1-4oz glass			1	X					X		correlation

Relinquished by:
Signature: [signature]
Printed: Troy Morales
Company: Cheyenne
Reason: Shipment

Date: 12/2/96
Time:

Received by:
Signature: [signature]
Printed: S. N. Gonzalez
Company: TNM&O Courier
Reason: Shipment

Relinquished by:
Signature:
Printed:
Company:
Reason:

Method of Shipment: Bus
Shipment No.:
Special Instructions:

Comments:

FIELD FILE

TNM&O
1313 13th Street
Lubbock, TX 79401

082

MO 12

DESTINATION STATION CITY & STATE: El Paso
ZIP: TEC

1 To (Recipient's Name): Assaigai Analytical Lab
Exact Street Address Cannot deliver to P.O. Box or Zip Code: ATTN: Don Moore
City: 7300 Jefferson
State: TX
Zip: NIS

Recipient's Package Express Account No.:
Recipient's Phone Number (Very Important): 345-8964

2 Shipper's Phone Number (Very Important): ( )
Shipper's Package Express Account No.:

3 From (Shipper's Name): Cheyenne Billing Co.

ASSAIGAI
ANALYTICAL
LABORATORIES, INC.
7300 Jefferson, N.E. • Albuquerque, New Mexico 87109 • (505) 345-8964 • FAX (505) 345-7259
3332 Wedgewood, E-5 • El Paso, Texas 79925 • (915) 593-6000 • FAX (915) 593-7820

Report Generated:
January 7, 1997 13:31

CERTIFICATE OF ANALYSIS
RESULTS BY SAMPLE

SENT TO: CHEYENNE BUILDING CONTRACTORS
P.O. BOX 418
CLOVIS, NM 88101

ATTN: MIKE LANDGRAF

WORKORDER # : 9612061
WORK ID : DACA47-95-D-0035
CLIENT CODE : CHE10
DATE RECEIVED : 12/06/96

Lab ID: 9612061-01A
Sample ID: CA47B-7-96-1205-0906
Collected: 12/05/96 09:06:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
Diesel Range OG Soil/M8015						
Diesel Range OG in Soil	ND	mg/Kg	50	1.0	12/17/96	SDRO009

Lab ID: 9612061-01B
Sample ID: CA47B-7-96-1205-0906
Collected: 12/05/96 09:06:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
VOLATILES/SW846 8260						
Dichlorodifluoromethane	ND	mg/Kg	0.010	5.0	12/10/96	SMSVOA410
Chloromethane	ND	mg/Kg	0.0050	5.0	12/10/96	SMSVOA410
Iodomethane	ND	mg/Kg	0.0050	5.0	12/10/96	SMSVOA410
Acetone	ND	mg/Kg	0.0050	5.0	12/10/96	SMSVOA410
Bromomethane	ND	mg/Kg	0.0050	5.0	12/10/96	SMSVOA410
Vinyl Chloride	ND	mg/Kg	0.0050	5.0	12/10/96	SMSVOA410
Chloroethane	ND	mg/Kg	0.0050	5.0	12/10/96	SMSVOA410
Trichlorofluoromethane	ND	mg/Kg	0.0050	5.0	12/10/96	SMSVOA410
Freon 113	ND	mg/Kg	0.0050	5.0	12/10/96	SMSVOA410
Carbon Disulfide	ND	mg/Kg	0.0050	5.0	12/10/96	SMSVOA410
Acrolein	ND	mg/Kg	0.020	5.0	12/10/96	SMSVOA410
Methylene Chloride	ND	mg/Kg	0.010	5.0	12/10/96	SMSVOA410
1,1-Dichloroethene	ND	mg/Kg	0.0010	5.0	12/10/96	SMSVOA410
1,1-Dichloroethane	ND	mg/Kg	0.0010	5.0	12/10/96	SMSVOA410
Acrylonitrile	ND	mg/Kg	0.020	5.0	12/10/96	SMSVOA410
trans-1,2-Dichloroethene	ND	mg/Kg	0.0010	5.0	12/10/96	SMSVOA410
Chloroform	ND	mg/Kg	0.0010	5.0	12/10/96	SMSVOA410
1,2-Dichloroethane	ND	mg/Kg	0.0010	5.0	12/10/96	SMSVOA410
Vinyl Acetate	ND	mg/Kg	0.0050	5.0	12/10/96	SMSVOA410
cis-1,2-Dichloroethene	ND	mg/Kg	0.0010	5.0	12/10/96	SMSVOA410
2-Butanone (MEK)	ND	mg/Kg	0.0050	5.0	12/10/96	SMSVOA410
1,1,1-Trichloroethane	ND	mg/Kg	0.0010	5.0	12/10/96	SMSVOA410
Carbon Tetrachloride	ND	mg/Kg	0.0010	5.0	12/10/96	SMSVOA410
Bromodichloromethane	ND	mg/Kg	0.0010	5.0	12/10/96	SMSVOA410
1,2-Dichloropropane	ND	mg/Kg	0.0010	5.0	12/10/96	SMSVOA410
Dibromomethane	ND	mg/Kg	0.0010	5.0	12/10/96	SMSVOA410
ns-1,3-Dichloropropene	ND	mg/Kg	0.0010	5.0	12/10/96	SMSVOA410
oroethene	ND	mg/Kg	0.0010	5.0	12/10/96	SMSVOA410
dibromomethane	ND	mg/Kg	0.0010	5.0	12/10/96	SMSVOA410
Methacrylate	ND	mg/Kg	0.0050	5.0	12/10/96	SMSVOA410
2-Chloroethylvinyl Ether	ND	mg/Kg	0.0050	5.0	12/10/96	SMSVOA410

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THIS REPORT MAY NOT BE USED IN ANY MANNER BY THE CLIENT OR ANY OTHER THIRD PARTY TO CLAIM PRODUCT ENDORSEMENT BY THE NATIONAL VOLUNTARY LABORATORY ACCREDITATION PROGRAM.

ID: 9612061-01B **Collected:** 12/05/96 09:06:00
Sample ID: CA47B-7-96-1205-0906 **Matrix:** SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
VOLATILES/SW846 8260						
1,1,2-Trichloroethane	ND	mg/Kg	0.0010	5.0	12/10/96	SMSVOA410
Benzene	ND	mg/Kg	0.0010	5.0	12/10/96	SMSVOA410
cis-1,3-Dichloropropene	ND	mg/Kg	0.0010	5.0	12/10/96	SMSVOA410
Bromoform	ND	mg/Kg	0.0010	5.0	12/10/96	SMSVOA410
4-Methyl-2-Pentanone (MIBK)	ND	mg/Kg	0.0050	5.0	12/10/96	SMSVOA410
Tetrachloroethene	ND	mg/Kg	0.0010	5.0	12/10/96	SMSVOA410
1,1,2,2-Tetrachloroethane	ND	mg/Kg	0.0010	5.0	12/10/96	SMSVOA410
1,2-Dibromoethane	ND	mg/Kg	0.0010	5.0	12/10/96	SMSVOA410
2-Hexanone (MBK)	ND	mg/Kg	0.0050	5.0	12/10/96	SMSVOA410
1,1,1,2-Tetrachloroethane	ND	mg/Kg	0.0010	5.0	12/10/96	SMSVOA410
Toluene	ND	mg/Kg	0.0010	5.0	12/10/96	SMSVOA410
Chlorobenzene	ND	mg/Kg	0.0010	5.0	12/10/96	SMSVOA410
Ethylbenzene	ND	mg/Kg	0.0010	5.0	12/10/96	SMSVOA410
1,4-Dichloro-2-Butene	ND	mg/Kg	0.010	5.0	12/10/96	SMSVOA410
Styrene	ND	mg/Kg	0.0010	5.0	12/10/96	SMSVOA410
P/M Xylene	ND	mg/Kg	0.0020	5.0	12/10/96	SMSVOA410
O-Xylene	ND	mg/Kg	0.0010	5.0	12/10/96	SMSVOA410
1,2,3-Trichloropropane	ND	mg/Kg	0.0010	5.0	12/10/96	SMSVOA410
Methyl-tert Butyl Ether	ND	mg/Kg	0.010	5.0	12/10/96	SMSVOA410
1,2-Dichlorobenzene	ND	mg/Kg	0.0010	5.0	12/10/96	SMSVOA410
1,3-Dichlorobenzene	ND	mg/Kg	0.0010	5.0	12/10/96	SMSVOA410
1,4-Dichlorobenzene	ND	mg/Kg	0.0010	5.0	12/10/96	SMSVOA410

ID: 9612061-01C **Collected:** 12/05/96 09:06:00
Sample ID: CA47B-7-96-1205-0906 **Matrix:** SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
SVOA(SOX) Soil/SW846 8270B	12/19/96	N/A				
n-Nitrosodimethylamine	ND	mg/Kg	1.0	1.6	12/27/96	SMSSVOA135
Pyridine	ND	mg/Kg	10	1.6	12/27/96	SMSSVOA135
Aniline	ND	mg/Kg	10	1.6	12/27/96	SMSSVOA135
bis(2-Chloroethyl) Ether	ND	mg/Kg	0.50	1.6	12/27/96	SMSSVOA135
2-Chlorophenol	ND	mg/Kg	0.50	1.6	12/27/96	SMSSVOA135
1,3-Dichlorobenzene	ND	mg/Kg	0.50	1.6	12/27/96	SMSSVOA135
1,4-Dichlorobenzene	ND	mg/Kg	0.50	1.6	12/27/96	SMSSVOA135
Phenol	ND	mg/Kg	0.50	1.6	12/27/96	SMSSVOA135
1,2-Dichlorobenzene	ND	mg/Kg	0.50	1.6	12/27/96	SMSSVOA135
Benzyl Alcohol	ND	mg/Kg	10	1.6	12/27/96	SMSSVOA135
bis(2-Chloroisopropyl) Ether	ND	mg/Kg	1.0	1.6	12/27/96	SMSSVOA135
2-Methylphenol / O-Cresol	ND	mg/Kg	0.50	1.6	12/27/96	SMSSVOA135
Hexachloroethane	ND	mg/Kg	0.50	1.6	12/27/96	SMSSVOA135
n-Nitroso-di-n-propylamine	ND	mg/Kg	0.50	1.6	12/27/96	SMSSVOA135
Nitrobenzene	ND	mg/Kg	0.50	1.6	12/27/96	SMSSVOA135
3/4 Methylphenol / M/P-Cresol	ND	mg/Kg	0.50	1.6	12/27/96	SMSSVOA135
Isophorone	ND	mg/Kg	0.50	1.6	12/27/96	SMSSVOA135
2-Nitrophenol	ND	mg/Kg	1.0	1.6	12/27/96	SMSSVOA135
bis(2-Chloroethoxy) Methane	ND	mg/Kg	0.50	1.6	12/27/96	SMSSVOA135
2,4-Dimethylphenol	ND	mg/Kg	1.0	1.6	12/27/96	SMSSVOA135
1,2,4-Trichlorobenzene	ND	mg/Kg	0.50	1.6	12/27/96	SMSSVOA135
Naphthalene	ND	mg/Kg	0.50	1.6	12/27/96	SMSSVOA135
Benzoic Acid	ND	mg/Kg	10	1.6	12/27/96	SMSSVOA135
4-Dichlorophenol	ND	mg/Kg	1.0	1.6	12/27/96	SMSSVOA135
Chloroaniline	ND	mg/Kg	10	1.6	12/27/96	SMSSVOA135
hlorobutadiene	ND	mg/Kg	0.50	1.6	12/27/96	SMSSVOA135
ylnaphthalene	ND	mg/Kg	0.50	1.6	12/27/96	SMSSVOA135
loro-3-methylphenol	ND	mg/Kg	0.50	1.6	12/27/96	SMSSVOA135
Hexachlorocyclopentadiene	ND	mg/Kg	10	1.6	12/27/96	SMSSVOA135

D: 9612061-01C **Collected:** 12/05/96 09:06:00
Sample ID: CA47B-7-96-1205-0906 **Matrix:** SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
SVOA(SOX) Soil/SW846 8270B						
2,4,6-Trichlorophenol	ND	mg/Kg	1.0	1.6	12/27/96	SMSSVOA135
2,4,5-Trichlorophenol	ND	mg/Kg	1.0	1.6	12/27/96	SMSSVOA135
2-Chloronaphthalene	ND	mg/Kg	0.50	1.6	12/27/96	SMSSVOA135
2-Nitroaniline	ND	mg/Kg	1.0	1.6	12/27/96	SMSSVOA135
Acenaphthylene	ND	mg/Kg	0.50	1.6	12/27/96	SMSSVOA135
Dimethylphthalate	ND	mg/Kg	0.50	1.6	12/27/96	SMSSVOA135
2,6-Dinitrotoluene	ND	mg/Kg	1.0	1.6	12/27/96	SMSSVOA135
Acenaphthene	ND	mg/Kg	0.50	1.6	12/27/96	SMSSVOA135
3-Nitroaniline	ND	mg/Kg	10	1.6	12/27/96	SMSSVOA135
Dibenzofuran	ND	mg/Kg	0.50	1.6	12/27/96	SMSSVOA135
2,4-Dinitrotoluene	ND	mg/Kg	2.5	1.6	12/27/96	SMSSVOA135
Fluorene	ND	mg/Kg	0.50	1.6	12/27/96	SMSSVOA135
4-Chlorophenyl-phenylether	ND	mg/Kg	0.50	1.6	12/27/96	SMSSVOA135
Diethylphthalate	ND	mg/Kg	0.50	1.6	12/27/96	SMSSVOA135
4-Nitrophenol	ND	mg/Kg	10	1.6	12/27/96	SMSSVOA135
4,6-Dinitro-2-methylphenol	ND	mg/Kg	10	1.6	12/27/96	SMSSVOA135
n-Nitrosodiphenylamine	ND	mg/Kg	0.50	1.6	12/27/96	SMSSVOA135
4-Nitroaniline	ND	mg/Kg	10	1.6	12/27/96	SMSSVOA135
4-Bromophenyl-phenylether	ND	mg/Kg	0.50	1.6	12/27/96	SMSSVOA135
Hexachlorobenzene	ND	mg/Kg	0.50	1.6	12/27/96	SMSSVOA135
Pentachlorophenol	ND	mg/Kg	10	1.6	12/27/96	SMSSVOA135
2,4-Dinitrophenol	ND	mg/Kg	10	1.6	12/27/96	SMSSVOA135
Phenanthrene	ND	mg/Kg	0.50	1.6	12/27/96	SMSSVOA135
Anthracene	ND	mg/Kg	0.50	1.6	12/27/96	SMSSVOA135
-butylphthalate	ND	mg/Kg	5.0	1.6	12/27/96	SMSSVOA135
nthene	ND	mg/Kg	0.50	1.6	12/27/96	SMSSVOA135
e	ND	mg/Kg	0.50	1.6	12/27/96	SMSSVOA135
Butylbenzylphthalate	ND	mg/Kg	0.50	1.6	12/27/96	SMSSVOA135
Benzo(a)anthracene	ND	mg/Kg	0.50	1.6	12/27/96	SMSSVOA135
Chrysene	ND	mg/Kg	0.50	1.6	12/27/96	SMSSVOA135
3,3'-Dichlorobenzidine	ND	mg/Kg	10	1.6	12/27/96	SMSSVOA135
bis(2-Ethylhexyl)phthalate	ND	mg/Kg	2.5	1.6	12/27/96	SMSSVOA135
Di-n-octyl phthalate	ND	mg/Kg	0.50	1.6	12/27/96	SMSSVOA135
Benzo(b)+(k)fluoranthene	ND	mg/Kg	0.50	1.6	12/27/96	SMSSVOA135
1-Methylnaphthalene	ND	mg/Kg	1.0	1.6	12/27/96	SMSSVOA135
Benzo(a)pyrene	ND	mg/Kg	0.50	1.6	12/27/96	SMSSVOA135
Indeno(1,2,3-cd)pyrene	ND	mg/Kg	1.0	1.6	12/27/96	SMSSVOA135
Benzo(g,h,i)perylene	ND	mg/Kg	1.0	1.6	12/27/96	SMSSVOA135
2,3,4,6-Tetrachlorophenol	ND	mg/Kg	2.5	1.6	12/27/96	SMSSVOA135
Azobenzene	ND	mg/Kg	1.0	1.6	12/27/96	SMSSVOA135
Dibenz(a,h)anthracene	ND	mg/Kg	1.0	1.6	12/27/96	SMSSVOA135

Lab ID: 9612061-01D **Collected:** 12/05/96 09:06:00
Sample ID: CA47B-7-96-1205-0906 **Matrix:** SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
% SOLIDS(TCLP XT)EPA 160.3	100.00	% (Percent)				
ARSENIC (GFAA)/SW846 7060						
Arsenic, As	1.07	mg/Kg	0.25	2.0	12/12/96	M96202
CVAA Hg XT/SW846 7471	12/11/96	N/A				
MERCURY (CVAA)/SW846 7471						
ercury	ND	mg/Kg	0.15	1.0	12/11/96	M96211
al(ICP) DIG /SW846 3050	12/09/96	N/A				
S-ICP/SW846 6010						
Ag	3.1	mg/Kg	1.0	1.0	12/11/96	M96202
inum, Al	NT	mg/Kg	25			M96202
Arsenic, As	NT	mg/Kg	3.0			M96202

ID: 9612061-01D **Collected:** 12/05/96 09:06:00
Sample ID: CA47B-7-96-1205-0906 **Matrix:** SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
METALS-ICP/SW846 6010						
Barium, Ba	367	mg/Kg	0.50	1.0	12/11/96	M96202
Beryllium, Be	NT	mg/Kg	0.50			M96202
Calcium, Ca	NT	mg/Kg	15			M96202
Cadmium, Cd	0.21	mg/Kg	0.20	1.0	12/11/96	M96202
Cobalt, Co	NT	mg/Kg	0.50			M96202
Chromium, Cr	5.5	mg/Kg	1.0	1.0	12/11/96	M96202
Copper, Cu	NT	mg/Kg	0.50			M96202
Iron, Fe	NT	mg/Kg	15			M96202
Potassium, K	NT	mg/Kg	10			M96202
Magnesium, Mg	NT	mg/Kg	10			M96202
Manganese, Mn	NT	mg/Kg	0.25			M96202
Sodium, Na	NT	mg/Kg	15			M96202
Nickel, Ni	4.9	mg/Kg	2.0	1.0	12/11/96	M96202
Lead, Pb	2.2	mg/Kg	2.0	1.0	12/11/96	M96202
Antimony, Sb	NT	mg/Kg	1.5			M96202
Selenium, Se	ND	mg/Kg	2.5	1.0	12/11/96	M96202
Vanadium, V	NT	mg/Kg	0.15			M96202
Zinc, Zn	NT	mg/Kg	5.0			M96202
TCLP (ICP) DIG/1311/3005	12/11/96	N/A				
TCLP EXTRACTION/TCLP 1311	12/09/96	N/A				
TCLP METALS/1311/SW8466010						
Arsenic, As	ND	mg/L	0.40	1.0	12/14/96	M96208,M96212
Barium, Ba	1.6	mg/L	0.50	1.0	12/14/96	M96208,M96212
Cadmium, Cd	ND	mg/L	0.0050	1.0	12/14/96	M96208,M96212
[illegible]mium, Cr	ND	mg/L	0.020	1.0	12/14/96	M96208,M96212
Pb	ND	mg/L	0.050	1.0	12/14/96	M96208,M96212
[illegible]ry, Hg	ND	mg/L	0.0020	1.0	12/12/96	M96208,M96212
Selenium, Se	0.06	mg/L	0.050	1.0	12/16/96	M96208,M96212
Silver, Ag	ND	mg/L	0.040	1.0	12/14/96	M96208,M96212
TCLP(CVAA)Hg XT/SW846 7471	12/11/96	N/A				

Lab ID: 9612061-02A **Collected:** 12/05/96 09:07:00
Sample ID: CA47B/8-96-1205-0907 **Matrix:** SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
BTEX/SW846 8020A						
Benzene	ND	mg/Kg	0.0010	5.0	12/18/96	SBTXME143
Toluene	ND	mg/Kg	0.0010	5.0	12/18/96	SBTXME143
Ethylbenzene	ND	mg/Kg	0.0010	5.0	12/18/96	SBTXME143
P-&m-Xylene	ND	mg/Kg	0.0010	5.0	12/18/96	SBTXME143
O-Xylene	ND	mg/Kg	0.0010	5.0	12/18/96	SBTXME143

Lab ID: 9612061-02B **Collected:** 12/05/96 09:07:00
Sample ID: CA47B/8-96-1205-0907 **Matrix:** SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
SOLIDS(TCLP XT)EPA 160.3	100.00	% (Percent)				
Range OG Soil/M8015						
Range OG in Soil	ND	mg/Kg	50	1.0	12/17/96	SDRO009
[illegible] (ICP) DIG/1311/3005	12/11/96	N/A				
TCLP EXTRACTION/TCLP 1311	12/09/96	N/A				

D: 9612061-02B **Collected:** 12/05/96 09:07:00
Sample ID: CA47B/8-96-1205-0907 **Matrix:** SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
TCLP METALS/1311/SW8466010						
Arsenic, As	ND	mg/L	0.40	1.0	12/14/96	M96208,M96212
Barium, Ba	1.2	mg/L	0.50	1.0	12/14/96	M96208,M96212
Cadmium, Cd	ND	mg/L	0.0050	1.0	12/14/96	M96208,M96212
Chromium, Cr	ND	mg/L	0.020	1.0	12/14/96	M96208,M96212
Lead, Pb	ND	mg/L	0.050	1.0	12/14/96	M96208,M96212
Mercury, Hg	ND	mg/L	0.0020	1.0	12/12/96	M96208,M96212
Selenium, Se	ND	mg/L	0.050	1.0	12/16/96	M96208,M96212
Silver, Ag	ND	mg/L	0.040	1.0	12/14/96	M96208,M96212
TCLP(CVAA)Hg XT/SW846 7471	12/11/96	N/A				

Lab ID: 9612061-03A **Collected:** 12/05/96 09:06:00
Sample ID: CA47B/QC-96-1205-0906 **Matrix:** SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
Diesel Range OG Soil/M8015						
Diesel Range OG in Soil	ND	mg/Kg	50	1.0	12/17/96	SDRO009

D: 9612061-03B **Collected:** 12/05/96 09:06:00
le ID: CA47B/QC-96-1205-0906 **Matrix:** SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
VOLATILES/SW846 8260						
Dichlorodifluoromethane	ND	mg/Kg	0.010	5.0	12/10/96	SMSVOA410
Chloromethane	ND	mg/Kg	0.0050	5.0	12/10/96	SMSVOA410
Iodomethane	ND	mg/Kg	0.0050	5.0	12/10/96	SMSVOA410
Acetone	ND	mg/Kg	0.0050	5.0	12/10/96	SMSVOA410
Bromomethane	ND	mg/Kg	0.0050	5.0	12/10/96	SMSVOA410
Vinyl Chloride	ND	mg/Kg	0.0050	5.0	12/10/96	SMSVOA410
Chloroethane	ND	mg/Kg	0.0050	5.0	12/10/96	SMSVOA410
Trichlorofluoromethane	ND	mg/Kg	0.0050	5.0	12/10/96	SMSVOA410
Freon 113	ND	mg/Kg	0.0050	5.0	12/10/96	SMSVOA410
Carbon Disulfide	ND	mg/Kg	0.0050	5.0	12/10/96	SMSVOA410
Acrolein	ND	mg/Kg	0.020	5.0	12/10/96	SMSVOA410
Methylene Chloride	ND	mg/Kg	0.010	5.0	12/10/96	SMSVOA410
1,1-Dichloroethene	ND	mg/Kg	0.0010	5.0	12/10/96	SMSVOA410
1,1-Dichloroethane	ND	mg/Kg	0.0010	5.0	12/10/96	SMSVOA410
Acrylonitrile	ND	mg/Kg	0.020	5.0	12/10/96	SMSVOA410
trans-1,2-Dichloroethene	ND	mg/Kg	0.0010	5.0	12/10/96	SMSVOA410
Chloroform	ND	mg/Kg	0.0010	5.0	12/10/96	SMSVOA410
1,2-Dichloroethane	ND	mg/Kg	0.0010	5.0	12/10/96	SMSVOA410
Vinyl Acetate	ND	mg/Kg	0.0050	5.0	12/10/96	SMSVOA410
cis-1,2-Dichloroethene	ND	mg/Kg	0.0010	5.0	12/10/96	SMSVOA410
2-Butanone (MEK)	ND	mg/Kg	0.0050	5.0	12/10/96	SMSVOA410
1,1,1-Trichloroethane	ND	mg/Kg	0.0010	5.0	12/10/96	SMSVOA410
Carbon Tetrachloride	ND	mg/Kg	0.0010	5.0	12/10/96	SMSVOA410
Bromodichloromethane	ND	mg/Kg	0.0010	5.0	12/10/96	SMSVOA410
2-Dichloropropane	ND	mg/Kg	0.0010	5.0	12/10/96	SMSVOA410
nomethane	ND	mg/Kg	0.0010	5.0	12/10/96	SMSVOA410
,3-Dichloropropene	ND	mg/Kg	0.0010	5.0	12/10/96	SMSVOA410
oroethene	ND	mg/Kg	0.0010	5.0	12/10/96	SMSVOA410
Chlorodibromomethane	ND	mg/Kg	0.0010	5.0	12/10/96	SMSVOA410

.D: 9612061-03B
.uple ID: CA47B/QC-96-1205-0906

Collected: 12/05/96 09:06:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
VOLATILES/SW846 8260						
Ethyl Methacrylate	ND	mg/Kg	0.0050	5.0	12/10/96	SMSVOA410
2-Chloroethylvinyl Ether	ND	mg/Kg	0.0050	5.0	12/10/96	SMSVOA410
1,1,2-Trichloroethane	ND	mg/Kg	0.0010	5.0	12/10/96	SMSVOA410
Benzene	ND	mg/Kg	0.0010	5.0	12/10/96	SMSVOA410
cis-1,3-Dichloropropene	ND	mg/Kg	0.0010	5.0	12/10/96	SMSVOA410
Bromoform	ND	mg/Kg	0.0010	5.0	12/10/96	SMSVOA410
4-Methyl-2-Pentanone (MIBK)	ND	mg/Kg	0.0050	5.0	12/10/96	SMSVOA410
Tetrachloroethene	ND	mg/Kg	0.0010	5.0	12/10/96	SMSVOA410
1,1,2,2-Tetrachloroethane	ND	mg/Kg	0.0010	5.0	12/10/96	SMSVOA410
1,2-Dibromoethane	ND	mg/Kg	0.0010	5.0	12/10/96	SMSVOA410
2-Hexanone (MBK)	ND	mg/Kg	0.0050	5.0	12/10/96	SMSVOA410
1,1,1,2-Tetrachloroethane	ND	mg/Kg	0.0010	5.0	12/10/96	SMSVOA410
Toluene	ND	mg/Kg	0.0010	5.0	12/10/96	SMSVOA410
Chlorobenzene	ND	mg/Kg	0.0010	5.0	12/10/96	SMSVOA410
Ethylbenzene	ND	mg/Kg	0.0010	5.0	12/10/96	SMSVOA410
1,4-Dichloro-2-Butene	ND	mg/Kg	0.010	5.0	12/10/96	SMSVOA410
Styrene	ND	mg/Kg	0.0010	5.0	12/10/96	SMSVOA410
P/M Xylene	ND	mg/Kg	0.0020	5.0	12/10/96	SMSVOA410
O-Xylene	ND	mg/Kg	0.0010	5.0	12/10/96	SMSVOA410
1,2,3-Trichloropropane	ND	mg/Kg	0.0010	5.0	12/10/96	SMSVOA410
Methyl-tert Butyl Ether	ND	mg/Kg	0.010	5.0	12/10/96	SMSVOA410
1,2-Dichlorobenzene	ND	mg/Kg	0.0010	5.0	12/10/96	SMSVOA410
1,3-Dichlorobenzene	ND	mg/Kg	0.0010	5.0	12/10/96	SMSVOA410
1,4-Dichlorobenzene	ND	mg/Kg	0.0010	5.0	12/10/96	SMSVOA410

Lab ID: 9612061-03C
Sample ID: CA47B/QC-96-1205-0906

Collected: 12/05/96 09:06:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
SVOA(SOX) Soil/SW846 8270B	12/19/96	N/A				
n-Nitrosodimethylamine	ND	mg/Kg	1.0	1.9	12/26/96	SMSSVOA135
Pyridine	ND	mg/Kg	10	1.9	12/26/96	SMSSVOA135
Aniline	ND	mg/Kg	10	1.9	12/26/96	SMSSVOA135
bis(2-Chloroethyl) Ether	ND	mg/Kg	0.50	1.9	12/26/96	SMSSVOA135
2-Chlorophenol	ND	mg/Kg	0.50	1.9	12/26/96	SMSSVOA135
1,3-Dichlorobenzene	ND	mg/Kg	0.50	1.9	12/26/96	SMSSVOA135
1,4-Dichlorobenzene	ND	mg/Kg	0.50	1.9	12/26/96	SMSSVOA135
Phenol	ND	mg/Kg	0.50	1.9	12/26/96	SMSSVOA135
1,2-Dichlorobenzene	ND	mg/Kg	0.50	1.9	12/26/96	SMSSVOA135
Benzyl Alcohol	ND	mg/Kg	10	1.9	12/26/96	SMSSVOA135
bis(2-Chloroisopropyl) Ether	ND	mg/Kg	1.0	1.9	12/26/96	SMSSVOA135
2-Methylphenol / O-Cresol	ND	mg/Kg	0.50	1.9	12/26/96	SMSSVOA135
Hexachloroethane	ND	mg/Kg	0.50	1.9	12/26/96	SMSSVOA135
n-Nitroso-di-n-propylamine	ND	mg/Kg	0.50	1.9	12/26/96	SMSSVOA135
Nitrobenzene	ND	mg/Kg	0.50	1.9	12/26/96	SMSSVOA135
3/4 Methylphenol / M/P-Cresol	ND	mg/Kg	0.50	1.9	12/26/96	SMSSVOA135
Isophorone	ND	mg/Kg	0.50	1.9	12/26/96	SMSSVOA135
2-Nitrophenol	ND	mg/Kg	1.0	1.9	12/26/96	SMSSVOA135
bis(2-Chloroethoxy) Methane	ND	mg/Kg	0.50	1.9	12/26/96	SMSSVOA135
2,4-Dimethylphenol	ND	mg/Kg	1.0	1.9	12/26/96	SMSSVOA135
1,2,4-Trichlorobenzene	ND	mg/Kg	0.50	1.9	12/26/96	SMSSVOA135
Naphthalene	ND	mg/Kg	0.50	1.9	12/26/96	SMSSVOA135
›zoic Acid	ND	mg/Kg	10	1.9	12/26/96	SMSSVOA135
'chlorophenol	ND	mg/Kg	1.0	1.9	12/26/96	SMSSVOA135
roaniline	ND	mg/Kg	10	1.9	12/26/96	SMSSVOA135
ı. ..chlorobutadiene	ND	mg/Kg	0.50	1.9	12/26/96	SMSSVOA135
2-Methylnaphthalene	ND	mg/Kg	0.50	1.9	12/26/96	SMSSVOA135

ID: 9612061-03C
Sample ID: CA47B/QC-96-1205-0906

Collected: 12/05/96 09:06:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
SVOA(SOX) Soil/SW846 8270B						
4-Chloro-3-methylphenol	ND	mg/Kg	0.50	1.9	12/26/96	SMSSVOA135
Hexachlorocyclopentadiene	ND	mg/Kg	10	1.9	12/26/96	SMSSVOA135
2,4,6-Trichlorophenol	ND	mg/Kg	1.0	1.9	12/26/96	SMSSVOA135
2,4,5-Trichlorophenol	ND	mg/Kg	1.0	1.9	12/26/96	SMSSVOA135
2-Chloronaphthalene	ND	mg/Kg	0.50	1.9	12/26/96	SMSSVOA135
2-Nitroaniline	ND	mg/Kg	1.0	1.9	12/26/96	SMSSVOA135
Acenaphthylene	ND	mg/Kg	0.50	1.9	12/26/96	SMSSVOA135
Dimethylphthalate	ND	mg/Kg	0.50	1.9	12/26/96	SMSSVOA135
2,6-Dinitrotoluene	ND	mg/Kg	1.0	1.9	12/26/96	SMSSVOA135
Acenaphthene	ND	mg/Kg	0.50	1.9	12/26/96	SMSSVOA135
3-Nitroaniline	ND	mg/Kg	10	1.9	12/26/96	SMSSVOA135
Dibenzofuran	ND	mg/Kg	0.50	1.9	12/26/96	SMSSVOA135
2,4-Dinitrotoluene	ND	mg/Kg	2.5	1.9	12/26/96	SMSSVOA135
Fluorene	ND	mg/Kg	0.50	1.9	12/26/96	SMSSVOA135
4-Chlorophenyl-phenylether	ND	mg/Kg	0.50	1.9	12/26/96	SMSSVOA135
Diethylphthalate	ND	mg/Kg	0.50	1.9	12/26/96	SMSSVOA135
4-Nitrophenol	ND	mg/Kg	10	1.9	12/26/96	SMSSVOA135
4,6-Dinitro-2-methylphenol	ND	mg/Kg	10	1.9	12/26/96	SMSSVOA135
n-Nitrosodiphenylamine	ND	mg/Kg	0.50	1.9	12/26/96	SMSSVOA135
4-Nitroaniline	ND	mg/Kg	10	1.9	12/26/96	SMSSVOA135
4-Bromophenyl-phenylether	ND	mg/Kg	0.50	1.9	12/26/96	SMSSVOA135
Hexachlorobenzene	ND	mg/Kg	0.50	1.9	12/26/96	SMSSVOA135
Pentachlorophenol	ND	mg/Kg	10	1.9	12/26/96	SMSSVOA135
2,4-Dinitrophenol	ND	mg/Kg	10	1.9	12/26/96	SMSSVOA135
anthrene	ND	mg/Kg	0.50	1.9	12/26/96	SMSSVOA135
icene	ND	mg/Kg	0.50	1.9	12/26/96	SMSSVOA135
utylphthalate	12B	mg/Kg	5.0	1.9	12/26/96	SMSSVOA135
Fluoranthene	ND	mg/Kg	0.50	1.9	12/26/96	SMSSVOA135
Pyrene	ND	mg/Kg	0.50	1.9	12/26/96	SMSSVOA135
Butylbenzylphthalate	ND	mg/Kg	0.50	1.9	12/26/96	SMSSVOA135
Benzo(a)anthracene	ND	mg/Kg	0.50	1.9	12/26/96	SMSSVOA135
Chrysene	ND	mg/Kg	0.50	1.9	12/26/96	SMSSVOA135
3,3'-Dichlorobenzidine	ND	mg/Kg	10	1.9	12/26/96	SMSSVOA135
bis(2-Ethylhexyl)phthalate	ND	mg/Kg	2.5	1.9	12/26/96	SMSSVOA135
Di-n-octyl phthalate	ND	mg/Kg	0.50	1.9	12/26/96	SMSSVOA135
Benzo(b)+(k)fluoranthene	ND	mg/Kg	0.50	1.9	12/26/96	SMSSVOA135
1-Methylnaphthalene	ND	mg/Kg	1.0	1.9	12/26/96	SMSSVOA135
Benzo(a)pyrene	ND	mg/Kg	0.50	1.9	12/26/96	SMSSVOA135
Indeno(1,2,3-cd)pyrene	ND	mg/Kg	1.0	1.9	12/26/96	SMSSVOA135
Benzo(g,h,i)perylene	ND	mg/Kg	1.0	1.9	12/26/96	SMSSVOA135
2,3,4,6-Tetrachlorophenol	ND	mg/Kg	2.5	1.9	12/26/96	SMSSVOA135
Azobenzene	ND	mg/Kg	1.0	1.9	12/26/96	SMSSVOA135
Dibenz(a,h)anthracene	ND	mg/Kg	1.0	1.9	12/26/96	SMSSVOA135

Lab ID: 9612061-03D
Sample ID: CA47B/QC-96-1205-0906

Collected: 12/05/96 09:06:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
% SOLIDS(TCLP XT)EPA 160.3	100.00	% (Percent)				
ARSENIC (GFAA)/SW846 7060						
Arsenic, As	1.63	mg/Kg	0.25	2.0	12/12/96	M96202
AA Hg XT/SW846 7471	12/11/96	N/A				
CURY (CVAA)/SW846 7471						
ry	ND	mg/Kg	0.15	1.0	12/11/96	M96211
P) DIG /SW846 3050	12/09/96	N/A				
ALS-ICP/SW846 6010						
Silver, Ag	2.9	mg/Kg	1.0	1.0	12/11/96	M96202

ID: 9612061-03D
Sample ID: CA47B/QC-96-1205-0906

Collected: 12/05/96 09:06:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
METALS-ICP/SW846 6010						
Aluminum, Al	NT	mg/Kg	25			M96202
Arsenic, As	NT	mg/Kg	3.0			M96202
Barium, Ba	263	mg/Kg	0.50	1.0	12/11/96	M96202
Beryllium, Be	NT	mg/Kg	0.50			M96202
Calcium, Ca	NT	mg/Kg	15			M96202
Cadmium, Cd	0.31	mg/Kg	0.20	1.0	12/11/96	M96202
Cobalt, Co	NT	mg/Kg	0.50			M96202
Chromium, Cr	5.1	mg/Kg	1.0	1.0	12/11/96	M96202
Copper, Cu	NT	mg/Kg	0.50			M96202
Iron, Fe	NT	mg/Kg	15			M96202
Potassium, K	NT	mg/Kg	10			M96202
Magnesium, Mg	NT	mg/Kg	10			M96202
Manganese, Mn	NT	mg/Kg	0.25			M96202
Sodium, Na	NT	mg/Kg	15			M96202
Nickel, Ni	4.4	mg/Kg	2.0	1.0	12/11/96	M96202
Lead, Pb	ND	mg/Kg	2.0	1.0	12/11/96	M96202
Antimony, Sb	NT	mg/Kg	1.5			M96202
Selenium, Se	ND	mg/Kg	2.5	1.0	12/11/96	M96202
Vanadium, V	NT	mg/Kg	0.15			M96202
Zinc, Zn	NT	mg/Kg	5.0			M96202
TCLP (ICP) DIG/1311/3005	12/11/96	N/A				
TCLP EXTRACTION/TCLP 1311	12/09/96	N/A				
TCLP METALS/1311/SW8466010						
Arsenic, As	ND	mg/L	0.40	1.0	12/14/96	M96208,M96212
[illegible]um, Ba	1.4	mg/L	0.50	1.0	12/14/96	M96208,M96212
[illegible]ium, Cd	ND	mg/L	0.0050	1.0	12/14/96	M96208,M96212
[illegible]ium, Cr	ND	mg/L	0.020	1.0	12/14/96	M96208,M96212
Lead, Pb	ND	mg/L	0.050	1.0	12/14/96	M96208,M96212
Mercury, Hg	ND	mg/L	0.0020	1.0	12/12/96	M96208,M96212
Selenium, Se	0.05	mg/L	0.050	1.0	12/16/96	M96208,M96212
Silver, Ag	ND	mg/L	0.040	1.0	12/14/96	M96208,M96212
TCLP(CVAA)Hg XT/SW846 7471	12/11/96	N/A				

Lab ID: 9612061-04A
Sample ID: CA47B/1-96-1205-0900

Collected: 12/05/96 09:00:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
BTEX/SW846 8020A						
Benzene	ND	mg/Kg	0.0010	5.0	12/18/96	SBTXME143
Toluene	ND	mg/Kg	0.0010	5.0	12/18/96	SBTXME143
Ethylbenzene	ND	mg/Kg	0.0010	5.0	12/18/96	SBTXME143
P-&m-Xylene	ND	mg/Kg	0.0010	5.0	12/18/96	SBTXME143
O-Xylene	ND	mg/Kg	0.0010	5.0	12/18/96	SBTXME143
Diesel Range OG Soil/M8015						
Diesel Range OG in Soil	ND	mg/Kg	50	1.0	12/17/96	SDRO009

Lab ID: 9612061-05A
Sample ID: CA47B/5-96-1205-0904

Collected: 12/05/96
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
BTEX/SW846 8020A						

ID: 9612061-05A
Sample ID: CA47B/5-96-1205-0904

Collected: 12/05/96
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
BTEX/SW846 8020A						
Benzene	ND	mg/Kg	0.0010	5.0	12/18/96	SBTXME143
Toluene	ND	mg/Kg	0.0010	5.0	12/18/96	SBTXME143
Ethylbenzene	ND	mg/Kg	0.0010	5.0	12/18/96	SBTXME143
P-&m-Xylene	ND	mg/Kg	0.0010	5.0	12/18/96	SBTXME143
O-Xylene	ND	mg/Kg	0.0010	5.0	12/18/96	SBTXME143
Diesel Range OG Soil/M8015						
Diesel Range OG in Soil	ND	mg/Kg	50	1.0	12/17/96	SDRO009

Fred L. Shore, Ph.D.
VP of Laboratory Operations

WORKORDER COMMENTS

DATE : 01/07/97
WORKORDER:

DEFINITIONS/DATA QUALIFIERS

The following are definitions, abbreviations, and data qualifiers which may have been utilized in your report:

ND = Analyte "not detected" in analysis at the sample specific detection limit.
D_F = Sample "dilution factor"
NT = Analyte "not tested" per client request.
B = Analyte was also detected in laboratory method QC blank.
E = Analyte concentration (result) is an estimated value or exceeds analysis calibration range.
LIMIT = The minimum amount of the analyte that AAL can detect utilizing the specified analysis.

Please Note: Multiply the "Limit" value (AAL's Detection Limit) by Dilution Factor (D_F) to obtain the sample specific Detection Limit.

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Report Generated:
January 29, 1997 09:02

CERTIFICATE OF ANALYSIS
RESULTS BY SAMPLE

SENT TO: CHEYENNE BUILDING CONTRACTORS
P.O. BOX 418
CLOVIS, NM 88101

ATTN: MIKE LANDGRAF

WORKORDER # : 9701072
WORK ID : DACA47-95-D-0035
CLIENT CODE : CHE10
DATE RECEIVED : 01/13/97

Lab ID: 9701072-01A
Sample ID: CA9/3-97-0109-1002
Collected: 01/09/97 10:02:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
BTEX/SW846 8020A						
Benzene	ND	mg/Kg	0.0010	5.0	01/22/97	SBTXME146
Toluene	ND	mg/Kg	0.0010	5.0	01/22/97	SBTXME146
Ethylbenzene	ND	mg/Kg	0.0010	5.0	01/22/97	SBTXME146
P-&m-Xylene	ND	mg/Kg	0.0010	5.0	01/22/97	SBTXME146
O-Xylene	ND	mg/Kg	0.0010	5.0	01/22/97	SBTXME146
Range OG Soil/M8015						
Range OG in Soil	ND	mg/Kg	50	1.0	01/22/97	SDRO012

Lab ID: 9701072-02A
Sample ID: CA9/7-97-0109-1006
Collected: 01/09/97 10:06:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
BTEX/SW846 8020A						
Benzene	ND	mg/Kg	0.0010	5.0	01/22/97	SBTXME146
Toluene	ND	mg/Kg	0.0010	5.0	01/22/97	SBTXME146
Ethylbenzene	ND	mg/Kg	0.0010	5.0	01/22/97	SBTXME146
P-&m-Xylene	ND	mg/Kg	0.0010	5.0	01/22/97	SBTXME146
O-Xylene	ND	mg/Kg	0.0010	5.0	01/22/97	SBTXME146
Diesel Range OG Soil/M8015						
Diesel Range OG in Soil	ND	mg/Kg	50	1.0	01/22/97	SDRO012

Lab ID: 9701072-03A
Sample ID: CA9/12-97-0109-1301
Collected: 01/09/97 13:01:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
BTEX/SW846 8020A						
Benzene	ND	mg/Kg	0.0010	5.0	01/22/97	SBTXME146
Toluene	ND	mg/Kg	0.0010	5.0	01/22/97	SBTXME146
Ethylbenzene	ND	mg/Kg	0.0010	5.0	01/22/97	SBTXME146
P-&m-Xylene	ND	mg/Kg	0.0010	5.0	01/22/97	SBTXME146
O-Xylene	ND	mg/Kg	0.0010	5.0	01/22/97	SBTXME146
Diesel Range OG Soil/M8015						

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ID: 9701072-03A **Collected:** 01/09/97 13:01:00
Sample ID: CA9/12-97-0109-1301 **Matrix:** SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
Diesel Range OG Soil/M8015						
Diesel Range OG in Soil	ND	mg/Kg	50	1.0	01/22/97	SDRO012

Lab ID: 9701072-04A **Collected:** 01/09/97 09:00:00
Sample ID: CA9/17-97-0110-0900 **Matrix:** SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
BTEX/SW846 8020A						
Benzene	ND	mg/Kg	0.0010	5.0	01/22/97	SBTXME146
Toluene	ND	mg/Kg	0.0010	5.0	01/22/97	SBTXME146
Ethylbenzene	ND	mg/Kg	0.0010	5.0	01/22/97	SBTXME146
P-&m-Xylene	ND	mg/Kg	0.0010	5.0	01/22/97	SBTXME146
O-Xylene	ND	mg/Kg	0.0010	5.0	01/22/97	SBTXME146
Diesel Range OG Soil/M8015						
Diesel Range OG in Soil	ND	mg/Kg	50	1.0	01/22/97	SDRO012

ab ID: 9701072-05A **Collected:** 01/09/97 10:08:00
ple ID: CA9/9-97-0109-1008 **Matrix:** SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
Diesel Range OG Soil/M8015						
Diesel Range OG in Soil	ND	mg/Kg	50	1.0	01/22/97	SDRO012

Lab ID: 9701072-05B **Collected:** 01/09/97 10:08:00
Sample ID: CA9/9-97-0109-1008 **Matrix:** SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
VOLATILES/SW846 8260						
Dichlorodifluoromethane	ND	mg/Kg	0.010	5.0	01/22/97	SMSVOA423
Chloromethane	ND	mg/Kg	0.0050	5.0	01/22/97	SMSVOA423
Iodomethane	ND	mg/Kg	0.0050	5.0	01/22/97	SMSVOA423
Acetone	ND	mg/Kg	0.0050	5.0	01/22/97	SMSVOA423
Bromomethane	ND	mg/Kg	0.0050	5.0	01/22/97	SMSVOA423
Vinyl Chloride	ND	mg/Kg	0.0050	5.0	01/22/97	SMSVOA423
Chloroethane	ND	mg/Kg	0.0050	5.0	01/22/97	SMSVOA423
Trichlorofluoromethane	ND	mg/Kg	0.0050	5.0	01/22/97	SMSVOA423
Freon 113	ND	mg/Kg	0.0050	5.0	01/22/97	SMSVOA423
Carbon Disulfide	ND	mg/Kg	0.0050	5.0	01/22/97	SMSVOA423
Acrolein	ND	mg/Kg	0.020	5.0	01/22/97	SMSVOA423
Methylene Chloride	ND	mg/Kg	0.010	5.0	01/22/97	SMSVOA423
1,1-Dichloroethene	ND	mg/Kg	0.0010	5.0	01/22/97	SMSVOA423
.1-Dichloroethane	ND	mg/Kg	0.0010	5.0	01/22/97	SMSVOA423
'onitrile	ND	mg/Kg	0.020	5.0	01/22/97	SMSVOA423
1,2-Dichloroethene	ND	mg/Kg	0.0010	5.0	01/22/97	SMSVOA423
,roform	ND	mg/Kg	0.0010	5.0	01/22/97	SMSVOA423
1,2-Dichloroethane	ND	mg/Kg	0.0010	5.0	01/22/97	SMSVOA423
Vinyl Acetate	ND	mg/Kg	0.0050	5.0	01/22/97	SMSVOA423

ID: 9701072-05B
Sample ID: CA9/9-97-0109-1008

Collected: 01/09/97 10:08:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
VOLATILES/SW846 8260						
cis-1,2-Dichloroethene	ND	mg/Kg	0.0010	5.0	01/22/97	SMSVOA423
2-Butanone (MEK)	ND	mg/Kg	0.0050	5.0	01/22/97	SMSVOA423
1,1,1-Trichloroethane	ND	mg/Kg	0.0010	5.0	01/22/97	SMSVOA423
Carbon Tetrachloride	ND	mg/Kg	0.0010	5.0	01/22/97	SMSVOA423
Bromodichloromethane	ND	mg/Kg	0.0010	5.0	01/22/97	SMSVOA423
1,2-Dichloropropane	ND	mg/Kg	0.0010	5.0	01/22/97	SMSVOA423
Dibromomethane	ND	mg/Kg	0.0010	5.0	01/22/97	SMSVOA423
trans-1,3-Dichloropropene	ND	mg/Kg	0.0010	5.0	01/22/97	SMSVOA423
Trichloroethene	ND	mg/Kg	0.0010	5.0	01/22/97	SMSVOA423
Chlorodibromomethane	ND	mg/Kg	0.0010	5.0	01/22/97	SMSVOA423
Ethyl Methacrylate	ND	mg/Kg	0.0050	5.0	01/22/97	SMSVOA423
2-Chloroethylvinyl Ether	ND	mg/Kg	0.0050	5.0	01/22/97	SMSVOA423
1,1,2-Trichloroethane	ND	mg/Kg	0.0010	5.0	01/22/97	SMSVOA423
Benzene	ND	mg/Kg	0.0010	5.0	01/22/97	SMSVOA423
cis-1,3-Dichloropropene	ND	mg/Kg	0.0010	5.0	01/22/97	SMSVOA423
Bromoform	ND	mg/Kg	0.0010	5.0	01/22/97	SMSVOA423
4-Methyl-2-Pentanone (MIBK)	ND	mg/Kg	0.0050	5.0	01/22/97	SMSVOA423
Tetrachloroethene	ND	mg/Kg	0.0010	5.0	01/22/97	SMSVOA423
1,1,2,2-Tetrachloroethane	ND	mg/Kg	0.0010	5.0	01/22/97	SMSVOA423
1,2-Dibromoethane	ND	mg/Kg	0.0010	5.0	01/22/97	SMSVOA423
2-Hexanone (MBK)	ND	mg/Kg	0.0050	5.0	01/22/97	SMSVOA423
1,1,1,2-Tetrachloroethane	ND	mg/Kg	0.0010	5.0	01/22/97	SMSVOA423
Toluene	ND	mg/Kg	0.0010	5.0	01/22/97	SMSVOA423
'lorobenzene	ND	mg/Kg	0.0010	5.0	01/22/97	SMSVOA423
benzene	ND	mg/Kg	0.0010	5.0	01/22/97	SMSVOA423
ichloro-2-Butene	ND	mg/Kg	0.010	5.0	01/22/97	SMSVOA423
ene	ND	mg/Kg	0.0010	5.0	01/22/97	SMSVOA423
P/M Xylene	ND	mg/Kg	0.0020	5.0	01/22/97	SMSVOA423
O-Xylene	ND	mg/Kg	0.0010	5.0	01/22/97	SMSVOA423
1,2,3-Trichloropropane	ND	mg/Kg	0.0010	5.0	01/22/97	SMSVOA423
Methyl-tert Butyl Ether	ND	mg/Kg	0.010	5.0	01/22/97	SMSVOA423
1,2-Dichlorobenzene	ND	mg/Kg	0.0010	5.0	01/22/97	SMSVOA423
1,3-Dichlorobenzene	ND	mg/Kg	0.0010	5.0	01/22/97	SMSVOA423
1,4-Dichlorobenzene	ND	mg/Kg	0.0010	5.0	01/22/97	SMSVOA423

Lab ID: 9701072-05C
Sample ID: CA9/9-97-0109-1008

Collected: 01/09/97 10:08:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
SVOA(SOX) Soil/SW846 8270B	01/22/97	N/A				
n-Nitrosodimethylamine	ND	mg/Kg	1.0	1.0	01/26/97	SMSSVOA140
Pyridine	ND	mg/Kg	10	1.0	01/26/97	SMSSVOA140
Aniline	ND	mg/Kg	10	1.0	01/26/97	SMSSVOA140
bis(2-Chloroethyl) Ether	ND	mg/Kg	0.50	1.0	01/26/97	SMSSVOA140
2-Chlorophenol	ND	mg/Kg	0.50	1.0	01/26/97	SMSSVOA140
1,3-Dichlorobenzene	ND	mg/Kg	0.50	1.0	01/26/97	SMSSVOA140
1,4-Dichlorobenzene	ND	mg/Kg	0.50	1.0	01/26/97	SMSSVOA140
Phenol	ND	mg/Kg	0.50	1.0	01/26/97	SMSSVOA140
1,2-Dichlorobenzene	ND	mg/Kg	0.50	1.0	01/26/97	SMSSVOA140
Benzyl Alcohol	ND	mg/Kg	10	1.0	01/26/97	SMSSVOA140
bis(2-Chloroisopropyl) Ether	ND	mg/Kg	1.0	1.0	01/26/97	SMSSVOA140
Methylphenol / O-Cresol	ND	mg/Kg	0.50	1.0	01/26/97	SMSSVOA140
chloroethane	ND	mg/Kg	0.50	1.0	01/26/97	SMSSVOA140
oso-di-n-propylamine	ND	mg/Kg	0.50	1.0	01/26/97	SMSSVOA140
benzene	ND	mg/Kg	0.50	1.0	01/26/97	SMSSVOA140
3/4 Methylphenol / M/P-Cresol	ND	mg/Kg	0.50	1.0	01/26/97	SMSSVOA140
Isophorone	ND	mg/Kg	0.50	1.0	01/26/97	SMSSVOA140

ID: 9701072-05C
Sample ID: CA9/9-97-0109-1008

Collected: 01/09/97 10:08:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
SVOA(SOX) Soil/SW846 8270B						
2-Nitrophenol	ND	mg/Kg	1.0	1.0	01/26/97	SMSSVOA140
bis(2-Chloroethoxy) Methane	ND	mg/Kg	0.50	1.0	01/26/97	SMSSVOA140
2,4-Dimethylphenol	ND	mg/Kg	1.0	1.0	01/26/97	SMSSVOA140
1,2,4-Trichlorobenzene	ND	mg/Kg	0.50	1.0	01/26/97	SMSSVOA140
Naphthalene	ND	mg/Kg	0.50	1.0	01/26/97	SMSSVOA140
Benzoic Acid	ND	mg/Kg	10	1.0	01/26/97	SMSSVOA140
2,4-Dichlorophenol	ND	mg/Kg	1.0	1.0	01/26/97	SMSSVOA140
4-Chloroaniline	ND	mg/Kg	10	1.0	01/26/97	SMSSVOA140
Hexachlorobutadiene	ND	mg/Kg	0.50	1.0	01/26/97	SMSSVOA140
2-Methylnaphthalene	ND	mg/Kg	0.50	1.0	01/26/97	SMSSVOA140
4-Chloro-3-methylphenol	ND	mg/Kg	0.50	1.0	01/26/97	SMSSVOA140
Hexachlorocyclopentadiene	ND	mg/Kg	10	1.0	01/26/97	SMSSVOA140
2,4,6-Trichlorophenol	ND	mg/Kg	1.0	1.0	01/26/97	SMSSVOA140
2,4,5-Trichlorophenol	ND	mg/Kg	1.0	1.0	01/26/97	SMSSVOA140
2-Chloronaphthalene	ND	mg/Kg	0.50	1.0	01/26/97	SMSSVOA140
2-Nitroaniline	ND	mg/Kg	1.0	1.0	01/26/97	SMSSVOA140
Acenaphthylene	ND	mg/Kg	0.50	1.0	01/26/97	SMSSVOA140
Dimethylphthalate	ND	mg/Kg	0.50	1.0	01/26/97	SMSSVOA140
2,6-Dinitrotoluene	ND	mg/Kg	1.0	1.0	01/26/97	SMSSVOA140
Acenaphthene	ND	mg/Kg	0.50	1.0	01/26/97	SMSSVOA140
3-Nitroaniline	ND	mg/Kg	10	1.0	01/26/97	SMSSVOA140
Dibenzofuran	ND	mg/Kg	0.50	1.0	01/26/97	SMSSVOA140
2,4-Dinitrotoluene	ND	mg/Kg	2.5	1.0	01/26/97	SMSSVOA140
'uorene	ND	mg/Kg	0.50	1.0	01/26/97	SMSSVOA140
'orophenyl-phenylether	ND	mg/Kg	0.50	1.0	01/26/97	SMSSVOA140
ylphthalate	ND	mg/Kg	0.50	1.0	01/26/97	SMSSVOA140
..trophenol	ND	mg/Kg	10	1.0	01/26/97	SMSSVOA140
4,6-Dinitro-2-methylphenol	ND	mg/Kg	10	1.0	01/26/97	SMSSVOA140
n-Nitrosodiphenylamine	ND	mg/Kg	0.50	1.0	01/26/97	SMSSVOA140
4-Nitroaniline	ND	mg/Kg	10	1.0	01/26/97	SMSSVOA140
4-Bromophenyl-phenylether	ND	mg/Kg	0.50	1.0	01/26/97	SMSSVOA140
Hexachlorobenzene	ND	mg/Kg	0.50	1.0	01/26/97	SMSSVOA140
Pentachlorophenol	ND	mg/Kg	10	1.0	01/26/97	SMSSVOA140
2,4-Dinitrophenol	ND	mg/Kg	10	1.0	01/26/97	SMSSVOA140
Phenanthrene	ND	mg/Kg	0.50	1.0	01/26/97	SMSSVOA140
Anthracene	ND	mg/Kg	0.50	1.0	01/26/97	SMSSVOA140
Di-n-butylphthalate	15	mg/Kg	5.0	1.0	01/26/97	SMSSVOA140
Fluoranthene	ND	mg/Kg	0.50	1.0	01/26/97	SMSSVOA140
Pyrene	ND	mg/Kg	0.50	1.0	01/26/97	SMSSVOA140
Butylbenzylphthalate	ND	mg/Kg	0.50	1.0	01/26/97	SMSSVOA140
Benzo(a)anthracene	ND	mg/Kg	0.50	1.0	01/26/97	SMSSVOA140
Chrysene	ND	mg/Kg	0.50	1.0	01/26/97	SMSSVOA140
3,3'-Dichlorobenzidine	ND	mg/Kg	10	1.0	01/26/97	SMSSVOA140
bis(2-Ethylhexyl)phthalate	ND	mg/Kg	2.5	1.0	01/26/97	SMSSVOA140
Di-n-octyl phthalate	ND	mg/Kg	0.50	1.0	01/26/97	SMSSVOA140
Benzo(b)+(k)fluoranthene	ND	mg/Kg	0.50	1.0	01/26/97	SMSSVOA140
1-Methylnaphthalene	ND	mg/Kg	1.0	1.0	01/26/97	SMSSVOA140
Benzo(a)pyrene	ND	mg/Kg	0.50	1.0	01/26/97	SMSSVOA140
Indeno(1,2,3-cd)pyrene	ND	mg/Kg	1.0	1.0	01/26/97	SMSSVOA140
Benzo(g,h,i)perylene	ND	mg/Kg	1.0	1.0	01/26/97	SMSSVOA140
2,3,4,6-Tetrachlorophenol	ND	mg/Kg	2.5	1.0	01/26/97	SMSSVOA140
Azobenzene	ND	mg/Kg	1.0	1.0	01/26/97	SMSSVOA140
Dibenz(a,h)anthracene	ND	mg/Kg	1.0	1.0	01/26/97	SMSSVOA140

ID: 9701072-05D **Collected:** 01/09/97 10:08:00
Sample ID: CA9/9-97-0109-1008 **Matrix:** SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
% SOLIDS(TCLP XT)EPA 160.3	100.00	% (Percent)				
CVAA Hg XT/SW846 7471	01/16/97	N/A				
MERCURY (CVAA)/SW846 7471						
Mercury	ND	mg/Kg	0.15	1.0	01/17/97	M9742
Metal(ICP) DIG /SW846 3050	01/23/97	/A				
METALS-ICP/SW846 6010						
Silver, Ag	ND	mg/Kg	1.0	1.0	01/23/97	M9753
Aluminum, Al	NT	mg/Kg	25			M9753
Arsenic, As	ND	mg/Kg	3.0	1.0	01/23/97	M9753
Barium, Ba	155	mg/Kg	0.50	1.0	01/23/97	M9753
Beryllium, Be	NT	mg/Kg	0.50			M9753
Calcium, Ca	NT	mg/Kg	15			M9753
Cadmium, Cd	ND	mg/Kg	0.20	1.0	01/23/97	M9753
Cobalt, Co	NT	mg/Kg	0.50			M9753
Chromium, Cr	4.4	mg/Kg	1.0	1.0	01/23/97	M9753
Copper, Cu	NT	mg/Kg	0.50			M9753
Iron, Fe	NT	mg/Kg	15			M9753
Potassium, K	NT	mg/Kg	10			M9753
Magnesium, Mg	NT	mg/Kg	10			M9753
Manganese, Mn	NT	mg/Kg	0.25			M9753
Sodium, Na	NT	mg/Kg	15			M9753
Nickel, Ni	4.5	mg/Kg	2.0	1.0	01/23/97	M9753
Lead, Pb	ND	mg/Kg	2.0	1.0	01/23/97	M9753
Antimony, Sb	NT	mg/Kg	1.5			M9753
lenium, Se	2.5	mg/Kg	2.5	1.0	01/23/97	M9753
um, Tl	NT	mg/Kg	20			M9753
ium, V	NT	mg/Kg	0.15			M9753
, Zn	NT	mg/Kg	5.0			M9753
TCLP (ICP) DIG/1311/3005	01/17/97	N/A				
TCLP EXTRACTION/TCLP 1311	01/15/97	N/A				
TCLP METALS/1311/SW8466010						
Arsenic, As	ND	mg/L	0.40	1.0	01/20/97	M9741,M9746
Barium, Ba	1.2	mg/L	0.50	1.0	01/20/97	M9741,M9746
Cadmium, Cd	ND	mg/L	0.0050	1.0	01/20/97	M9741,M9746
Chromium, Cr	ND	mg/L	0.020	1.0	01/20/97	M9741,M9746
Lead, Pb	ND	mg/L	0.050	1.0	01/20/97	M9741,M9746
Mercury, Hg	ND	mg/L	0.0020	1.0	01/22/97	M9741,M9746
Selenium, Se	ND	mg/L	0.050	1.0	01/20/97	M9741,M9746
Silver, Ag	ND	mg/L	0.040	1.0	01/20/97	M9741,M9746
TCLP(CVAA)Hg XT/SW846 7471	01/21/97	N/A				

Lab ID: 9701072-06A **Collected:** 01/09/97 10:09:00
Sample ID: CA9/10-97-0109-1009 **Matrix:** SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
BTEX/SW846 8020A						
Benzene	ND	mg/Kg	0.0010	5.0	01/22/97	SBTXME146
Toluene	ND	mg/Kg	0.0010	5.0	01/22/97	SBTXME146
Ethylbenzene	ND	mg/Kg	0.0010	5.0	01/22/97	SBTXME146
P-&m-Xylene	ND	mg/Kg	0.0010	5.0	01/22/97	SBTXME146
O-Xylene	ND	mg/Kg	0.0010	5.0	01/22/97	SBTXME146
Diesel Range OG Soil/M8015						
esel Range OG in Soil	ND	mg/Kg	50	1.0	01/22/97	SDRO012

ID: 9701072-06B **Collected:** 01/09/97 10:09:00
Sample ID: CA9/10-97-0109-1009 **Matrix:** SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
% SOLIDS(TCLP XT)EPA 160.3	100.00	% (Percent)				
TCLP (ICP) DIG/1311/3005	01/17/97	N/A				
TCLP EXTRACTION/TCLP 1311	01/15/97	N/A				
TCLP METALS/1311/SW8466010						
Arsenic, As	ND	mg/L	0.40	1.0	01/20/97	M9741,M9746
Barium, Ba	1.3	mg/L	0.50	1.0	01/20/97	M9741,M9746
Cadmium, Cd	ND	mg/L	0.0050	1.0	01/20/97	M9741,M9746
Chromium, Cr	ND	mg/L	0.020	1.0	01/20/97	M9741,M9746
Lead, Pb	ND	mg/L	0.050	1.0	01/20/97	M9741,M9746
Mercury, Hg	ND	mg/L	0.0020	1.0	01/22/97	M9741,M9746
Selenium, Se	ND	mg/L	0.050	1.0	01/20/97	M9741,M9746
Silver, Ag	ND	mg/L	0.040	1.0	01/20/97	M9741,M9746
TCLP(CVAA)Hg XT/SW846 7471	01/21/97	N/A				

Lab ID: 9701072-07A **Collected:** 01/09/97 13:34:00
Sample ID: CA9/16-97-0109-1334 **Matrix:** SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
TEX/SW846 8020A						
ene	ND	mg/Kg	0.0010	50	01/22/97	SBTXME146
ne	ND	mg/Kg	0.0010	50	01/22/97	SBTXME146
.benzene	ND	mg/Kg	0.0010	50	01/22/97	SBTXME146
P-&m-Xylene	ND	mg/Kg	0.0010	50	01/22/97	SBTXME146
O-Xylene	ND	mg/Kg	0.0010	50	01/22/97	SBTXME146
Diesel Range OG Soil/M8015						
Diesel Range OG in Soil	ND	mg/Kg	50	1.0	01/22/97	SDRO012

Lab ID: 9701072-07B **Collected:** 01/09/97 13:34:00
Sample ID: CA9/16-97-0109-1334 **Matrix:** SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
% SOLIDS(TCLP XT)EPA 160.3	100.00	% (Percent)				
TCLP (ICP) DIG/1311/3005	01/17/97	N/A				
TCLP EXTRACTION/TCLP 1311	01/15/97	N/A				
TCLP METALS/1311/SW8466010						
Arsenic, As	ND	mg/L	0.40	1.0	01/20/97	M9741,M9746
Barium, Ba	1.2	mg/L	0.50	1.0	01/20/97	M9741,M9746
Cadmium, Cd	ND	mg/L	0.0050	1.0	01/20/97	M9741,M9746
Chromium, Cr	ND	mg/L	0.020	1.0	01/20/97	M9741,M9746
Lead, Pb	ND	mg/L	0.050	1.0	01/20/97	M9741,M9746
Mercury, Hg	ND	mg/L	0.0020	1.0	01/22/97	M9741,M9746
Selenium, Se	ND	mg/L	0.050	1.0	01/20/97	M9741,M9746
Silver, Ag	ND	mg/L	0.040	1.0	01/20/97	M9741,M9746
TCLP(CVAA)Hg XT/SW846 7471	01/21/97	N/A				

Fred L. Shore, Ph.D.
VP of Laboratory Operations

WORKORDER COMMENTS

DATE : 01/29/97
WORKORDER:

DEFINITIONS/DATA QUALIFIERS

The following are definitions, abbreviations, and data qualifiers which may have been utilized in your report:

ND = Analyte "not detected" in analysis at the sample specific detection limit.
D_F = Sample "dilution factor"
NT = Analyte "not tested" per client request.
B = Analyte was also detected in laboratory method QC blank.
E = Analyte concentration (result) is an estimated value or exceeds analysis calibration range.
LIMIT = The minimum amount of the analyte that AAL can detect utilizing the specified analysis.

Please Note: Multiply the "Limit" value (AAL's Detection Limit) by Dilution Factor (D_F) to obtain the sample specific Detection Limit.

*** Analytical results reported pertain only to the samples provided ***
*** for analysis and may not represent actual field conditions. ***
*** ***
*** This report is not to be reproduced except in full, without the ***
*** written approval of Assaigai Analytical Inc. ***

REPORT COMMENTS

ASSAIGAI ANALYTICAL LABORATORIES

Chain of Custody Record

Lab job no.: 1072 Date 1/10/97

Page 1 of 1

7300 JEFFERSON, N.E.
ALBUQUERQUE, NEW MEXICO 87109
(505) 345-8964

3332 WEDGEWOOD
EL PASO, TEXAS 79925
(915) 593-6000

1910 N. BIG SPRING
MIDLAND, TEXAS 79705
(915) 570-1116

MELQUIADES ALANIS
6411 LOCAL UNO
CIUDAD JUAREZ, CHIHUAHUA MEXICO 32320

Client: Cheyenne / LCI-ZINC

Address: 1717 S Prince St CLOVIS NM 88101

City / State / Zip:

Project Name / Number: DACA47-95-D-0035

Contract / Purchase Order / Quote: Dan Moore

Project Manager / Contact: Mike Landgraf

Telephone No.: (505) 769-9296

Fax No.: (505) 769-0780

Samplers: (Signature)

Analysis Required

Lab Sample Number	Field Sample Number / Location	Date	Time	Sample Type	Type / Size of Container	Preservation Temp.	Preservation Chemical	No. of Containers	TPH 8015	8260	8270	6010	1311	BTEX 8020	1311		Remarks
1A	CA9/3-97-0109-1002	1/9/97	10:02	soil	4oz glass			1	X					X			consolidation samples
2A	CA9/7-97-0109-1006	1/9/97	10:06	soil	4oz glass			1	X					X			"
3A	CA9/12-97-0109-1301	1/9/97	13:01	soil	4oz glass			1	X					X			"
4A	CA9/17-97-0100-0900	1/10/97	0:900	soil	4oz glass			1	X					X			"
5A LD	CA9/9-97-0109-1008	1/9/97	10:08	soil	3/4oz + 1/4oz glass			4	X	X	X	X					site confirmatory
6B B	CA9/10-97-0109-1009	1/9/97	10:09	soil	1/4oz + 1/9oz glass			2	X					X	X		excav confirm (site)
TM	~~CA9/11-97-0109-1308~~	~~1/9/97~~	~~13:08~~	~~soil~~	~~1/4oz + 1/9oz glass~~			TM 4	~~X~~	~~X~~	~~X~~	~~X~~					~~[illegible]~~
7H B	CA9/16-97-0109-1334	1/9/97	13:34	soil	1/4oz + 1/9oz glass			2	X					X	X		excav. confirm (trench)

Relinquished by:	Date	Received by:	Relinquished by:	Date	Received by:
Signature: [signature]	1/10/97	Signature: [signature]	Signature:	1/13/97	Signature: [signature]
Printed: Troy Moulter	Time: 1:45PM	Printed: Sally Gutierrez	Printed:	Time: 955	Printed:
Company: Cheyenne		Company: TNMC	Company: TNMC		Company:
Reason: Shipment		Reason: Shipping	Reason:		Reason:

Method of Shipment: Bus

Shipment No.:

Special Instructions:

Comments:

After analysis, samples are to be:

- ☐ Disposed of (additional fee)
- ☐ Stored (30 days max)
- ☐ Stored over 30 days (additional fee)
- ☐ Returned to customer

CC

U.S. ARMY CORPS OF ENGINEERS
Albuquerque District
Hazardous, Toxic and Radiologic Waste Section
4101 Jefferson Pl. NE
Albuquerque, NM 87109
505-342-3472

Chemical Quality Assurance Report (CQAR)

1. This is in reference to samples CA08/8-97-0129-1007, CA08/9-97-0129-1008 and CA08/7/97-0129-1030 associated with the Cannon AFB Oil Water Seperator removal and replace project.

2. Two soil samples, one confirmatory sample (CA08/8-97-0129-1007) and one quality control sample (CA08/9-97-0129-1008), arrived at Assaigai Analytical Laboratory on 30 January 1997 from Cannon AFB. The samples arrived on ice and in good condition. The sample cooler temperature was 8.1 degrees C. The samples were analyzed for the following:

- Volatile Organics (VOA) by EPA method 8260.
- Base/neutral/acid extractable organics (BNA) by Method 8270.
- TCLP Metals by EPA methods: 7471 for Mercury; and 6010 for arsenic, barium, cadmium, chromium, lead, selenium, nickel and silver; along with TCLP extraction method of 1311.
- 8 RCRA Metals plus Nickel by EPA methods: 7471 for Mercury; and 6010 for arsenic, barium, cadmium, chromium, lead, selenium, nickel and silver; and extraction method of 3050.
- Diesel Range Organics by EPA method 8015 modified.

3. One soil sample, quality assurance sample (CA08/7-97-0129-1030), was received by Southwestern Division Laboratory on 30 January 1997. The sample arrived in fair condition with an incomplete chain of custody. No signature, date, or time was listed on the chain of custody for relinquishment. The chain of custody listed TCLP mercury for the 6010 method, TCLP lead for the 7420 method and total lead for the 6010 method. After conversation between the District and the Southwestern Division Laboratory, mercury was analyzed by by 7471 and all other metals by method 6010. The sample was analyzed for the following:

- Volatile Organics (VOA) by EPA method 8260.
- Base/neutral/acid extractable organics (BNA) by Method 8270.
- TCLP Metals by EPA methods: 7471 for Mercury; and 6010 for arsenic, barium, cadmium, chromium, lead, selenium, nickel and silver; along with TCLP extraction method of 1311.

* 8 RCRA Metals plus Nickel by EPA methods: 7471 for Mercury; and 6010 for arsenic, barium, cadmium, chromium, lead, selenium, nickel and silver; and extraction method of 3050.
* Diesel Range Organics by EPA method 8015 modified.

The samples were distributed by Southwestern Division Laboratory for analysis as shown in the following table:

Laboratories	Sample Types
Southwestern Division	CA08/7/97-0129-1030: 8260, 8270, ICP-metals
Environmental Chemical Corporation	CA08/7/97-0129-1030: TCLP-metals and 8015-MOD

4. The data package from both Southwestern Division Laboratory and Assaigai Analytical Laboratory contained all required internal quality control information. The analysis was performed using the specified method within the proper holding times. The majority of RPDs, and the matrix spike and laboratory control recoveries were within control limits with the following exceptions:

Assaigai Analytical Laboratory

- The laboratory method blank associated with the BNA batch SMSSVOA was positive for Di-N-Butylphthalate. All sample results were less than 10 times the LMB and were reported with a "B" qualifier for possible blank contamination. All other laboratory method blanks associated with the analyses were free of target analytes.
- In metals batch M9785 the cadmium matrix spike sample concentration was too high to recover the spike. In the same metals batch the following analytes were out of criteria due to sample nonhomogeneity: Barium matrix spike and RPD, chromium MSD and RPD, and Lead MS/MSD and RPD. The data was validated by the LCS/LCSD recoveries and RPD which were within the QC limits.
- The RPD for cadmium and chromium in metals batch M9785 was out of criteria due to sample nonhomogeneity.

Southwestern Division Laboratory

- For volatiles: in batch 970206S1; The LCS/LCSD RPD for 2,2-dichloropropane was outside of quality control limits.
- For metals: sample S70055-1; a 1/4 dilution was used due to matrix interference. The results were below the detection limit.
- In batch HG-03S97; the sample duplicate RPD for mercury was

outside of quality control limits.

- In batch 7-15S; the MS, MS/MSD RPD, and sample duplicate for selenium were outside of quality control limits.
- In batch 7-15s; the MSD for arsenic was outside of quality control limits.
- In batch I-13S97; the MS and MS/MSD RPD for barium were outside of quality control limits.
- In batch I-13S97; the sample duplicate RPD for chromium was outside of quality control limits.

Environmental Chemical Corporation

- For TCLP metals: sample S70055-1; a post digested spike was used for selenium.

All method blanks were free of contamination.

5. One soil sample was analyzed in triplicate (field (CA08/8-97-0129-1007), QC duplicate (CA08/9-97-0129-1008), and QA split (CA08/7-97-0129-1030)) for VOA, BNA, TCLP and Total Metals, and TPH-Diesel Range. The VOA, BNA, and TPH analyses showed 100% agreement for the field, QC and QA analyte determinations (all were non-detectable) with the exception of Di-n-butylphthalate which was reported by Assaigai Analytical Laboratory at 17 mg/Kg and 9.1 mg/Kg in the field and QC sample respectively. The compound was also reported in the method blank at 17 mg/Kg. The metals analysis comparison is as follows:

Table 1. Total Metals Analysis Comparison.

Analyte	Field Result	QC result	QA result	Method Field/QA	Comment
Mercury	ND	ND	ND	7471/7471	agree
Arsenic	ND	ND	3.61	6010/7060	agree
Barium	147	168	202	6010/6010	agree
Cadmium	ND	ND	<0.2	6010/6010	agree
Chromium	10.7	9.2	8.50	6010/6010	agree
Lead	6.4	5.4	8.04	6010/6010	agree
Selenium	ND	ND	0.6	6010/7740	agree
Silver	ND	ND	<4	6010/6010	agree

Table 2. TCLP Metals Analysis Comparison.

Analyte	Field Result	QC result	QA result	Method Field/QA	Comment
Mercury	ND	ND	ND	7471/7470	agree
Arsenic	ND	ND	ND	6010/6010	agree
Barium	0.9	0.9	0.84	6010/6010	agree
Cadmium	ND	ND	0.0046	6010/6010	agree
Chromium	ND	ND	ND	6010/6010	agree
Lead	ND	ND	ND	6010/6010	agree
Selenium	ND	ND	ND	6010/7740	agree
Silver	ND	ND	<4	6010/6010	agree

ASSAIGAI ANALYTICAL LABORATORIES

Chain of Custody Record

7300 JEFFERSON, N.E.
ALBUQUERQUE, NEW MEXICO 871
(505) 345-8964

3332 WEDGEWOOD
EL PASO, TEXAS 79925
(915) 593-6000

1910 N. BIG SPRING
MIDLAND, TEXAS 79705
(915) 570-1116

MELQUIADES ALANIS
6411 LOCAL UNO
CIUDAD JUAREZ, CHIHUAHUA MEXICO 32320

Lab job no.: 1226 Date 1/30/97

Page 1 of 1

Client: Cheyenne / LCI-2

Address: 1712 S Prince St

City / State / Zip: CLOVIS NM 88101

Project Name / Number: DACA47-95-D-0035

Contract / Purchase Order / Quote: DAN MOORE

Project Manager / Contact: Mike Landgraf

Telephone No.: (505) 763-1410

Fax No.: (505) 769-0780

Samplers: (Signature) [signature]

Analysis Required

AAL Fraction Number	Field Sample Number / Location	Date	Time	Sample Type	Type / Size of Container	Preservation Temp.	Preservation Chemical	No. of Containers	MOD 8015	8260	8270	6010	TCLP Metals	8020 BTEX				Remarks
1A	CA8/1-97-0129-1000	1/29/97	10:00	Soil	1 4oz glass			1	X					X				correlation
2A	CA8/6-97-0129-1005	1/29/97	10:05	Soil	1 4oz glass			1	X					X				"
3A+D	CA8/8-97-0129-1007	1/29/97	10:07	Soil	1-4oz + 3-8oz glass			4	X	X	X	X						Confirmatory
4A+D	CA8/9-97-0129-1008	1/29/97	10:08	Soil	1-4oz + 3-8oz glass			4	X	X	X	X						Confirmatory
(1)																		

Relinquished by:	Date	Received by:	Relinquished by:	Date	Received by:
Signature: [signature]	1-29-97	Signature: Sally Gonzales	Signature:	1/30/97	Signature: Stephen Parker
Printed: Troy Morales	Time: 2:42 pm	Printed: Sally Gonzales	Printed:	Time: 8:50	Printed:
Company: Cheyenne CGC		Company: TNMTO	Company: TNMTO		Company: AAL
Reason: Shipment		Reason: Shipment	Reason:		Reason:

Method of Shipment: Bus

Shipment No.:

Special Instructions:

Comments: [illegible]

After analysis, samples are to be:

- ☐ Disposed of (additional fee)
- ☐ Stored (30 days max)
- ☐ Stored over 30 days (additional fee)
- ☐ Returned to customer

ASSAIGAI PROJECT FILE

MIPR#	SWD LAB# 570055-1	CHEST #

U S ARMY CORP OF ENGINEERS
SOUTHWESTERN DIVISION LABORATORY
4815 Cass Street
Dallas, Texas 75235
(214) 905-9130

Chain-of Custody

District: Albuquerque Date Sampled: 1/29/97 Time: 10:30

Location: CA08/7/97-0129-1030 Site: Cannon OWS

Boring/Well #: SWMW8 ID Field #

Project Manager: Susan Gant Phone #: 505-342-3472 Ext: -

Requested Due Date: Reg. Turn
(30 days for regular turnaround)

Containers

Glass	Plastic	Jar	Vial	Bag
		4		

check	Parameter	Preservative	Test Methods
	Volatile Organics	4°C	8260
	Semi-Volatile Organics	4°C	3540B/8270
	Ag; As; Ba; Cd; Cr; Pb; Se	4°C	3050/6010
	Hg	4°C	7471
	TCLP: As; Ba; Cd; Cr; Hg; Se; Ag	4°C	1311/6010
	TCLP: Pb	4°C	1311/7420
	Extractable Petroleum Hydro.	4°C	8015M

Custody Record

Relinquished By	Date/Time	Received by	Date/Time
		Randy Smith	30 Jan 97/1245

CESWD-ETE-GL
Cooler Receipt Form

5-1-95

CEFMS # _____ LIMS # _____

Date Received 30 JAN 97 MIPR # _____

Date Checked In _____ Project CANNON - OWS

By (sign) Randy Smith District ALBUQUERQUE

Carrier/Bill # D

1. Custody Seals?/Location 1F & 1B — Yes No
2. Samples were non-radioactive? ..... Yes No
3. Chain of custody in plastic? ..... Yes No
4. Temperature at receipt _____ (OK = 4 +/- 2°C: OK NOK
5. Ice & Packing ICE / FOAM SHEETS
6. Chain of Custody filled out properly? ..... Yes No
7. All containers in separate bags? ..... Yes No
8. Sample containers intact? ..... Yes No
9. Label(s) complete & in good condition? ..... Yes No
10. Label(s) agree with chain of custody? ..... Yes No
11. Correct containers used? ..... Yes No
12. Sufficient sample? ..... Yes No
13. VOA vials bubble-free (H_2O) or no head space (soil)? Yes No
14. Preservation OK? TM pH____; TRPH pH____; TOC pH____; TOX pH____; CN pH____; N/P pH____; Other pH____ Yes No

Comments #6 - NO MIPR #, NO SIG. DATE. TIME RELINQ. * 1248 HRS / 30 JAN 97 - LEFT MSG FOR BRIAN (ALB.) TO CALL BACK ABOUT COC PROBLEMS (ICP METALS D.L. 200 ppb [.2 ppm]; TCLP Hg SHOULD BE COLD VAPOR; IF TCLP Pb IS 7420 OR 7421 DO THEY WANT TOTAL Pb BY AA; IS TPH EXTRACTABLE LEG ONLY?). 0945 HRS. / 31 JAN 97 - SUSAN GANT ADD'D HOLD OK'S AND FAX QUESTIONS. 1258 HRS / 31 JAN 97 - PER BRIAN JORDAN - ALL Hg BY 7471 & ALL OTHER METALS BY ICP. TPH, DO EXTRACTABLE ONLY.

COMMAND/ OFFICE	NAME/ OFFICE SYMBOL	OFFICE TELEPHONE NO. (AUTOVON/Comm.)	FAX NO. (AUTOVON/Comm.)
From: RANDY SMITH	CESWD-ED-GL	(214) 905-9130	(214) 905-9133
To: SUSAN GRANT	ALBUQUERQUE	(505) 342-3472	(505) 342-8199

CLASSIFICATION	PRECEDENCE	NO. PAGES (Including this header)	DATE-TIME	MONTH	YEAR	RELEASER'S SIGNATURE
		2	31 1025	JAN	97	Randy Smith

REMARKS SUSAN -

PER OUR PHONE CONVERSATION HERE IS A LIST OF QUESTIONS CONCERNING SAMPLE RECEIVED AT SWD LAB THURSDAY, 30 JAN 97:

1 - TOTAL RCRA METALS BY ICP (6010A) D.L.'S FOR As & Se ARE OBTAINABLE BY ICP - PER OUR NEW CHEMIST.

2 - TCLP METALS REQUEST Hg BY ICP (6010A). SHOULDN'T IT BE BY COLD VAPOR (7471)? Pb BY 7420 IS DIRECT ASPIRATION - WE DO METHOD 7421 (FURNACE METHOD). IF TCLP Pb IS BY AA DO WE NEED TO TOTAL Pb BY AA ALSO?

3 - TPH (8015M) REQUEST IS FOR EXTRACTABLE PORTION ONLY. DO YOU NEED THAT LEG ONLY, OR ~~SO~~ SHOULD WE ADD THE PURGEABLE SIDE ALSO?

ASSAIGAI ANALYTICAL LABORATORIES, INC.
7300 Jefferson, N.E. • Albuquerque, New Mexico 87109 • (505) 345-8964 • FAX (505) 345-7259
3332 Wedgewood, E-5 • El Paso, Texas 79925 • (915) 593-6000 • FAX (915) 593-7820

Report Generated:
February 13, 1997 16:31

CERTIFICATE OF ANALYSIS
RESULTS BY SAMPLE

SENT TO: CHEYENNE BUILDING CONTRACTORS
P.O. BOX 418
CLOVIS, NM 88101

ATTN: MIKE LANDGRAF

WORKORDER # : 9701226
WORK ID : DACA47-95-D-0035
CLIENT CODE : CHE10
DATE RECEIVED : 01/30/97

Lab ID: 9701226-01A
Sample ID: CA8/1-97-0129-1000
Collected: 01/29/97 10:00:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
BTEX/SW846 8020A						
Benzene	ND	mg/Kg	0.0010	5.0	02/03/97	SBTXME148
Toluene	ND	mg/Kg	0.0010	5.0	02/03/97	SBTXME148
Ethylbenzene	ND	mg/Kg	0.0010	5.0	02/03/97	SBTXME148
P-&m-Xylene	ND	mg/Kg	0.0010	5.0	02/03/97	SBTXME148
-Xylene	ND	mg/Kg	0.0010	5.0	02/03/97	SBTXME148
Range OG Soil/M8015						
l Range OG in Soil	ND	mg/Kg	50	1.0	01/31/97	SDRO013

Lab ID: 9701226-02A
Sample ID: CA8/6-97-0129-1005
Collected: 01/29/97 10:05:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
BTEX/SW846 8020A						
Benzene	ND	mg/Kg	0.0010	5.0	02/03/97	SBTXME148
Toluene	ND	mg/Kg	0.0010	5.0	02/03/97	SBTXME148
Ethylbenzene	ND	mg/Kg	0.0010	5.0	02/03/97	SBTXME148
P-&m-Xylene	ND	mg/Kg	0.0010	5.0	02/03/97	SBTXME148
O-Xylene	ND	mg/Kg	0.0010	5.0	02/03/97	SBTXME148
Diesel Range OG Soil/M8015						
Diesel Range OG in Soil	ND	mg/Kg	50	1.0	01/31/97	SDRO013

Lab ID: 9701226-03A
Sample ID: CA8/8-97-0129-1007
Collected: 01/29/97 10:07:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
Diesel Range OG Soil/M8015						
Diesel Range OG in Soil	ND	mg/Kg	50	1.0	01/31/97	SDRO013

Member: American Council of Independent Laboratories, Inc.

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THIS REPORT MAY NOT BE USED IN ANY MANNER BY THE CLIENT OR ANY OTHER THIRD PARTY TO CLAIM PRODUCT ENDORSEMENT BY THE NATIONAL VOLUNTARY LABORATORY ACCREDITATION PROGRAM.

ID: 9701226-03B
Sample ID: CA8/8-97-0129-1007

Collected: 01/29/97 10:07:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
VOLATILES/SW846 8260						
Dichlorodifluoromethane	ND	mg/Kg	0.010	5.0	02/10/97	SMSVOA427
Chloromethane	ND	mg/Kg	0.0050	5.0	02/10/97	SMSVOA427
Iodomethane	ND	mg/Kg	0.0050	5.0	02/10/97	SMSVOA427
Acetone	ND	mg/Kg	0.0050	5.0	02/10/97	SMSVOA427
Bromomethane	ND	mg/Kg	0.0050	5.0	02/10/97	SMSVOA427
Vinyl Chloride	ND	mg/Kg	0.0050	5.0	02/10/97	SMSVOA427
Chloroethane	ND	mg/Kg	0.0050	5.0	02/10/97	SMSVOA427
Trichlorofluoromethane	ND	mg/Kg	0.0050	5.0	02/10/97	SMSVOA427
Freon 113	ND	mg/Kg	0.0050	5.0	02/10/97	SMSVOA427
Carbon Disulfide	ND	mg/Kg	0.0050	5.0	02/10/97	SMSVOA427
Acrolein	ND	mg/Kg	0.020	5.0	02/10/97	SMSVOA427
Methylene Chloride	ND	mg/Kg	0.010	5.0	02/10/97	SMSVOA427
1,1-Dichloroethene	ND	mg/Kg	0.0010	5.0	02/10/97	SMSVOA427
1,1-Dichloroethane	ND	mg/Kg	0.0010	5.0	02/10/97	SMSVOA427
Acrylonitrile	ND	mg/Kg	0.020	5.0	02/10/97	SMSVOA427
trans-1,2-Dichloroethene	ND	mg/Kg	0.0010	5.0	02/10/97	SMSVOA427
Chloroform	ND	mg/Kg	0.0010	5.0	02/10/97	SMSVOA427
1,2-Dichloroethane	ND	mg/Kg	0.0010	5.0	02/10/97	SMSVOA427
Vinyl Acetate	ND	mg/Kg	0.0050	5.0	02/10/97	SMSVOA427
cis-1,2-Dichloroethene	ND	mg/Kg	0.0010	5.0	02/10/97	SMSVOA427
2-Butanone (MEK)	ND	mg/Kg	0.0050	5.0	02/10/97	SMSVOA427
1,1,1-Trichloroethane	ND	mg/Kg	0.0010	5.0	02/10/97	SMSVOA427
Carbon Tetrachloride	ND	mg/Kg	0.0010	5.0	02/10/97	SMSVOA427
omodichloromethane	ND	mg/Kg	0.0010	5.0	02/10/97	SMSVOA427
ichloropropane	ND	mg/Kg	0.0010	5.0	02/10/97	SMSVOA427
momethane	ND	mg/Kg	0.0010	5.0	02/10/97	SMSVOA427
s-1,3-Dichloropropene	ND	mg/Kg	0.0010	5.0	02/10/97	SMSVOA427
Trichloroethene	ND	mg/Kg	0.0010	5.0	02/10/97	SMSVOA427
Chlorodibromomethane	ND	mg/Kg	0.0010	5.0	02/10/97	SMSVOA427
Ethyl Methacrylate	ND	mg/Kg	0.0050	5.0	02/10/97	SMSVOA427
2-Chloroethylvinyl Ether	ND	mg/Kg	0.0050	5.0	02/10/97	SMSVOA427
1,1,2-Trichloroethane	ND	mg/Kg	0.0010	5.0	02/10/97	SMSVOA427
Benzene	ND	mg/Kg	0.0010	5.0	02/10/97	SMSVOA427
cis-1,3-Dichloropropene	ND	mg/Kg	0.0010	5.0	02/10/97	SMSVOA427
Bromoform	ND	mg/Kg	0.0010	5.0	02/10/97	SMSVOA427
4-Methyl-2-Pentanone (MIBK)	ND	mg/Kg	0.0050	5.0	02/10/97	SMSVOA427
Tetrachloroethene	ND	mg/Kg	0.0010	5.0	02/10/97	SMSVOA427
1,1,2,2-Tetrachloroethane	ND	mg/Kg	0.0010	5.0	02/10/97	SMSVOA427
1,2-Dibromoethane	ND	mg/Kg	0.0010	5.0	02/10/97	SMSVOA427
2-Hexanone (MBK)	ND	mg/Kg	0.0050	5.0	02/10/97	SMSVOA427
1,1,1,2-Tetrachloroethane	ND	mg/Kg	0.0010	5.0	02/10/97	SMSVOA427
Toluene	ND	mg/Kg	0.0010	5.0	02/10/97	SMSVOA427
Chlorobenzene	ND	mg/Kg	0.0010	5.0	02/10/97	SMSVOA427
Ethylbenzene	ND	mg/Kg	0.0010	5.0	02/10/97	SMSVOA427
1,4-Dichloro-2-Butene	ND	mg/Kg	0.010	5.0	02/10/97	SMSVOA427
Styrene	ND	mg/Kg	0.0010	5.0	02/10/97	SMSVOA427
P/M Xylene	ND	mg/Kg	0.0020	5.0	02/10/97	SMSVOA427
O-Xylene	ND	mg/Kg	0.0010	5.0	02/10/97	SMSVOA427
1,2,3-Trichloropropane	ND	mg/Kg	0.0010	5.0	02/10/97	SMSVOA427
Methyl-tert Butyl Ether	ND	mg/Kg	0.010	5.0	02/10/97	SMSVOA427
1,2-Dichlorobenzene	ND	mg/Kg	0.0010	5.0	02/10/97	SMSVOA427
1,3-Dichlorobenzene	ND	mg/Kg	0.0010	5.0	02/10/97	SMSVOA427
1,4-Dichlorobenzene	ND	mg/Kg	0.0010	5.0	02/10/97	SMSVOA427

ID: 9701226-03C
Sample ID: CA8/8-97-0129-1007

Collected: 01/29/97 10:07:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
SVOA(SOX) Soil/SW846 8270B	02/03/97	N/A				
n-Nitrosodimethylamine	ND	mg/Kg	1.0	2.0	02/08/97	SMSSVOA141
Pyridine	ND	mg/Kg	10	2.0	02/08/97	SMSSVOA141
Aniline	ND	mg/Kg	10	2.0	02/08/97	SMSSVOA141
bis(2-Chloroethyl) Ether	ND	mg/Kg	0.50	2.0	02/08/97	SMSSVOA141
2-Chlorophenol	ND	mg/Kg	0.50	2.0	02/08/97	SMSSVOA141
1,3-Dichlorobenzene	ND	mg/Kg	0.50	2.0	02/08/97	SMSSVOA141
1,4-Dichlorobenzene	ND	mg/Kg	0.50	2.0	02/08/97	SMSSVOA141
Phenol	ND	mg/Kg	0.50	2.0	02/08/97	SMSSVOA141
1,2-Dichlorobenzene	ND	mg/Kg	0.50	2.0	02/08/97	SMSSVOA141
Benzyl Alcohol	ND	mg/Kg	10	2.0	02/08/97	SMSSVOA141
bis(2-Chloroisopropyl) Ether	ND	mg/Kg	1.0	2.0	02/08/97	SMSSVOA141
2-Methylphenol / O-Cresol	ND	mg/Kg	0.50	2.0	02/08/97	SMSSVOA141
Hexachloroethane	ND	mg/Kg	0.50	2.0	02/08/97	SMSSVOA141
n-Nitroso-di-n-propylamine	ND	mg/Kg	0.50	2.0	02/08/97	SMSSVOA141
Nitrobenzene	ND	mg/Kg	0.50	2.0	02/08/97	SMSSVOA141
3/4 Methylphenol / M/P-Cresol	ND	mg/Kg	0.50	2.0	02/08/97	SMSSVOA141
Isophorone	ND	mg/Kg	0.50	2.0	02/08/97	SMSSVOA141
2-Nitrophenol	ND	mg/Kg	1.0	2.0	02/08/97	SMSSVOA141
bis(2-Chloroethoxy) Methane	ND	mg/Kg	0.50	2.0	02/08/97	SMSSVOA141
2,4-Dimethylphenol	ND	mg/Kg	1.0	2.0	02/08/97	SMSSVOA141
1,2,4-Trichlorobenzene	ND	mg/Kg	0.50	2.0	02/08/97	SMSSVOA141
Naphthalene	ND	mg/Kg	0.50	2.0	02/08/97	SMSSVOA141
Benzoic Acid	ND	mg/Kg	10	2.0	02/08/97	SMSSVOA141
` 4-Dichlorophenol	ND	mg/Kg	1.0	2.0	02/08/97	SMSSVOA141
'oroaniline	ND	mg/Kg	10	2.0	02/08/97	SMSSVOA141
:hlorobutadiene	ND	mg/Kg	0.50	2.0	02/08/97	SMSSVOA141
- ..ethylnaphthalene	ND	mg/Kg	0.50	2.0	02/08/97	SMSSVOA141
4-Chloro-3-methylphenol	ND	mg/Kg	0.50	2.0	02/08/97	SMSSVOA141
Hexachlorocyclopentadiene	ND	mg/Kg	10	2.0	02/08/97	SMSSVOA141
2,4,6-Trichlorophenol	ND	mg/Kg	1.0	2.0	02/08/97	SMSSVOA141
2,4,5-Trichlorophenol	ND	mg/Kg	1.0	2.0	02/08/97	SMSSVOA141
2-Chloronaphthalene	ND	mg/Kg	0.50	2.0	02/08/97	SMSSVOA141
2-Nitroaniline	ND	mg/Kg	1.0	2.0	02/08/97	SMSSVOA141
Acenaphthylene	ND	mg/Kg	0.50	2.0	02/08/97	SMSSVOA141
Dimethylphthalate	ND	mg/Kg	0.50	2.0	02/08/97	SMSSVOA141
2,6-Dinitrotoluene	ND	mg/Kg	1.0	2.0	02/08/97	SMSSVOA141
Acenaphthene	ND	mg/Kg	0.50	2.0	02/08/97	SMSSVOA141
3-Nitroaniline	ND	mg/Kg	10	2.0	02/08/97	SMSSVOA141
Dibenzofuran	ND	mg/Kg	0.50	2.0	02/08/97	SMSSVOA141
2,4-Dinitrotoluene	ND	mg/Kg	2.5	2.0	02/08/97	SMSSVOA141
Fluorene	ND	mg/Kg	0.50	2.0	02/08/97	SMSSVOA141
4-Chlorophenyl-phenylether	ND	mg/Kg	0.50	2.0	02/08/97	SMSSVOA141
Diethylphthalate	ND	mg/Kg	0.50	2.0	02/08/97	SMSSVOA141
4-Nitrophenol	ND	mg/Kg	10	2.0	02/08/97	SMSSVOA141
4,6-Dinitro-2-methylphenol	ND	mg/Kg	10	2.0	02/08/97	SMSSVOA141
n-Nitrosodiphenylamine	ND	mg/Kg	0.50	2.0	02/08/97	SMSSVOA141
4-Nitroaniline	ND	mg/Kg	10	2.0	02/08/97	SMSSVOA141
4-Bromophenyl-phenylether	ND	mg/Kg	0.50	2.0	02/08/97	SMSSVOA141
Hexachlorobenzene	ND	mg/Kg	0.50	2.0	02/08/97	SMSSVOA141
Pentachlorophenol	ND	mg/Kg	10	2.0	02/08/97	SMSSVOA141
2,4-Dinitrophenol	ND	mg/Kg	10	2.0	02/08/97	SMSSVOA141
Phenanthrene	ND	mg/Kg	0.50	2.0	02/08/97	SMSSVOA141
Anthracene	ND	mg/Kg	0.50	2.0	02/08/97	SMSSVOA141
Di-n-butylphthalate	17B	mg/Kg	5.0	2.0	02/08/97	SMSSVOA141
Fluoranthene	ND	mg/Kg	0.50	2.0	02/08/97	SMSSVOA141
Pyrene	ND	mg/Kg	0.50	2.0	02/08/97	SMSSVOA141
Butylbenzylphthalate	ND	mg/Kg	0.50	2.0	02/08/97	SMSSVOA141
enzo(a)anthracene	ND	mg/Kg	0.50	2.0	02/08/97	SMSSVOA141
'ene	ND	mg/Kg	0.50	2.0	02/08/97	SMSSVOA141
)ichlorobenzidine	ND	mg/Kg	10	2.0	02/08/97	SMSSVOA141
..-Ethylhexyl)phthalate	ND	mg/Kg	2.5	2.0	02/08/97	SMSSVOA141
Di-n-octyl phthalate	ND	mg/Kg	0.50	2.0	02/08/97	SMSSVOA141
Benzo(b)+(k)fluoranthene	ND	mg/Kg	0.50	2.0	02/08/97	SMSSVOA141

ID: 9701226-03C **Collected:** 01/29/97 10:07:00
Sample ID: CA8/8-97-0129-1007 **Matrix:** SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
SVOA(SOX) Soil/SW846 8270B						
1-Methylnaphthalene	ND	mg/Kg	1.0	2.0	02/08/97	SMSSVOA141
Benzo(a)pyrene	ND	mg/Kg	0.50	2.0	02/08/97	SMSSVOA141
Indeno(1,2,3-cd)pyrene	ND	mg/Kg	1.0	2.0	02/08/97	SMSSVOA141
Benzo(g,h,i)perylene	ND	mg/Kg	1.0	2.0	02/08/97	SMSSVOA141
2,3,4,6-Tetrachlorophenol	ND	mg/Kg	2.5	2.0	02/08/97	SMSSVOA141
Azobenzene	ND	mg/Kg	1.0	2.0	02/08/97	SMSSVOA141
Dibenz(a,h)anthracene	ND	mg/Kg	1.0	2.0	02/08/97	SMSSVOA141

Lab ID: 9701226-03D **Collected:** 01/29/97 10:07:00
Sample ID: CA8/8-97-0129-1007 **Matrix:** SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
% SOLIDS(TCLP XT)EPA 160.3	100.00	% (Percent)				
CVAA Hg XT/SW846 7471	02/06/97	N/A				
MERCURY (CVAA)/SW846 7471						
Mercury	ND	mg/Kg	0.15	1.0	02/06/97	M97100
Metal(ICP) DIG /SW846 3050	01/31/97	N/A				
TALS-ICP/SW846 6010						
r, Ag	ND	mg/Kg	1.0	1.0	01/31/97	M9785
inum, Al	ND	mg/Kg	25	1.0	01/31/97	M9785
nic, As	ND	mg/Kg	3.0	1.0	01/31/97	M9785
Barium, Ba	147	mg/Kg	0.50	1.0	01/31/97	M9785
Beryllium, Be	NT	mg/Kg	0.50			M9785
Calcium, Ca	NT	mg/Kg	15			M9785
Cadmium, Cd	ND	mg/Kg	0.20	1.0	01/31/97	M9785
Cobalt, Co	NT	mg/Kg	0.50			M9785
Chromium, Cr	10.7	mg/Kg	1.0	1.0	01/31/97	M9785
Copper, Cu	NT	mg/Kg	0.50			M9785
Iron, Fe	NT	mg/Kg	15			M9785
Potassium, K	NT	mg/Kg	10			M9785
Magnesium, Mg	NT	mg/Kg	10			M9785
Manganese, Mn	NT	mg/Kg	0.25			M9785
Sodium, Na	NT	mg/Kg	15			M9785
Nickel, Ni	8.2	mg/Kg	2.0	1.0	01/31/97	M9785
Lead, Pb	6.4	mg/Kg	2.0	1.0	01/31/97	M9785
Antimony, Sb	NT	mg/Kg	1.5			M9785
Selenium, Se	ND	mg/Kg	2.5	1.0	01/31/97	M9785
Thallium, Tl	NT	mg/Kg	20			M9785
Vanadium, V	NT	mg/Kg	0.15			M9785
Zinc, Zn	NT	mg/Kg	5.0			M9785
TCLP (ICP) DIG/1311/3005	02/05/97	N/A				
TCLP EXTRACTION/TCLP 1311	02/04/97	N/A				
TCLP METALS/1311/SW8466010						
Arsenic, As	ND	mg/L	0.40	1.0	02/05/97	M9794,M9795
Barium, Ba	0.9	mg/L	0.50	1.0	02/05/97	M9794,M9795
Cadmium, Cd	ND	mg/L	0.0050	1.0	02/05/97	M9794,M9795
Chromium, Cr	ND	mg/L	0.020	1.0	02/05/97	M9794,M9795
Lead, Pb	ND	mg/L	0.050	1.0	02/05/97	M9794,M9795
Mercury, Hg	ND	mg/L	0.0020	1.0	02/06/97	M9794,M9795
Selenium, Se	ND	mg/L	0.050	1.0	02/05/97	M9794,M9795
Silver, Ag	ND	mg/L	0.040	1.0	02/05/97	M9794,M9795
LP(CVAA)Hg XT/SW846 7471	02/05/97	N/A				

ID: 9701226-04A
Sample ID: CA8/9-97-0129-1008

Collected: 01/29/97 10:08:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
Diesel Range OG Soil/M8015						
Diesel Range OG in Soil	ND	mg/Kg	50	1.0	01/31/97	SDRO013

Lab ID: 9701226-04B
Sample ID: CA8/9-97-0129-1008

Collected: 01/29/97 10:08:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
VOLATILES/SW846 8260						
Dichlorodifluoromethane	ND	mg/Kg	0.010	5.0	02/10/97	SMSVOA427
Chloromethane	ND	mg/Kg	0.0050	5.0	02/10/97	SMSVOA427
Iodomethane	ND	mg/Kg	0.0050	5.0	02/10/97	SMSVOA427
Acetone	ND	mg/Kg	0.0050	5.0	02/10/97	SMSVOA427
Bromomethane	ND	mg/Kg	0.0050	5.0	02/10/97	SMSVOA427
Vinyl Chloride	ND	mg/Kg	0.0050	5.0	02/10/97	SMSVOA427
Chloroethane	ND	mg/Kg	0.0050	5.0	02/10/97	SMSVOA427
Trichlorofluoromethane	ND	mg/Kg	0.0050	5.0	02/10/97	SMSVOA427
Freon 113	ND	mg/Kg	0.0050	5.0	02/10/97	SMSVOA427
Carbon Disulfide	ND	mg/Kg	0.0050	5.0	02/10/97	SMSVOA427
crolein	ND	mg/Kg	0.020	5.0	02/10/97	SMSVOA427
vlene Chloride	ND	mg/Kg	0.010	5.0	02/10/97	SMSVOA427
ichloroethene	ND	mg/Kg	0.0010	5.0	02/10/97	SMSVOA427
Dichloroethane	ND	mg/Kg	0.0010	5.0	02/10/97	SMSVOA427
Acrylonitrile	ND	mg/Kg	0.020	5.0	02/10/97	SMSVOA427
trans-1,2-Dichloroethene	ND	mg/Kg	0.0010	5.0	02/10/97	SMSVOA427
Chloroform	ND	mg/Kg	0.0010	5.0	02/10/97	SMSVOA427
1,2-Dichloroethane	ND	mg/Kg	0.0010	5.0	02/10/97	SMSVOA427
Vinyl Acetate	ND	mg/Kg	0.0050	5.0	02/10/97	SMSVOA427
cis-1,2-Dichloroethene	ND	mg/Kg	0.0010	5.0	02/10/97	SMSVOA427
2-Butanone (MEK)	ND	mg/Kg	0.0050	5.0	02/10/97	SMSVOA427
1,1,1-Trichloroethane	ND	mg/Kg	0.0010	5.0	02/10/97	SMSVOA427
Carbon Tetrachloride	ND	mg/Kg	0.0010	5.0	02/10/97	SMSVOA427
Bromodichloromethane	ND	mg/Kg	0.0010	5.0	02/10/97	SMSVOA427
1,2-Dichloropropane	ND	mg/Kg	0.0010	5.0	02/10/97	SMSVOA427
Dibromomethane	ND	mg/Kg	0.0010	5.0	02/10/97	SMSVOA427
trans-1,3-Dichloropropene	ND	mg/Kg	0.0010	5.0	02/10/97	SMSVOA427
Trichloroethene	ND	mg/Kg	0.0010	5.0	02/10/97	SMSVOA427
Chlorodibromomethane	ND	mg/Kg	0.0010	5.0	02/10/97	SMSVOA427
Ethyl Methacrylate	ND	mg/Kg	0.0050	5.0	02/10/97	SMSVOA427
2-Chloroethylvinyl Ether	ND	mg/Kg	0.0050	5.0	02/10/97	SMSVOA427
1,1,2-Trichloroethane	ND	mg/Kg	0.0010	5.0	02/10/97	SMSVOA427
Benzene	ND	mg/Kg	0.0010	5.0	02/10/97	SMSVOA427
cis-1,3-Dichloropropene	ND	mg/Kg	0.0010	5.0	02/10/97	SMSVOA427
Bromoform	ND	mg/Kg	0.0010	5.0	02/10/97	SMSVOA427
4-Methyl-2-Pentanone (MIBK)	ND	mg/Kg	0.0050	5.0	02/10/97	SMSVOA427
Tetrachloroethene	ND	mg/Kg	0.0010	5.0	02/10/97	SMSVOA427
1,1,2,2-Tetrachloroethane	ND	mg/Kg	0.0010	5.0	02/10/97	SMSVOA427
1,2-Dibromoethane	ND	mg/Kg	0.0010	5.0	02/10/97	SMSVOA427
2-Hexanone (MBK)	ND	mg/Kg	0.0050	5.0	02/10/97	SMSVOA427
1,1,1,2-Tetrachloroethane	ND	mg/Kg	0.0010	5.0	02/10/97	SMSVOA427
Toluene	ND	mg/Kg	0.0010	5.0	02/10/97	SMSVOA427
Chlorobenzene	ND	mg/Kg	0.0010	5.0	02/10/97	SMSVOA427
Ethylbenzene	ND	mg/Kg	0.0010	5.0	02/10/97	SMSVOA427
4-Dichloro-2-Butene	ND	mg/Kg	0.010	5.0	02/10/97	SMSVOA427
ne	ND	mg/Kg	0.0010	5.0	02/10/97	SMSVOA427
Xylene	ND	mg/Kg	0.0020	5.0	02/10/97	SMSVOA427
lene	ND	mg/Kg	0.0010	5.0	02/10/97	SMSVOA427
1,2,3-Trichloropropane	ND	mg/Kg	0.0010	5.0	02/10/97	SMSVOA427
Methyl-tert Butyl Ether	ND	mg/Kg	0.010	5.0	02/10/97	SMSVOA427

ID: 9701226-04B
Sample ID: CA8/9-97-0129-1008

Collected: 01/29/97 10:08:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
VOLATILES/SW846 8260						
1,2-Dichlorobenzene	ND	mg/Kg	0.0010	5.0	02/10/97	SMSVOA427
1,3-Dichlorobenzene	ND	mg/Kg	0.0010	5.0	02/10/97	SMSVOA427
1,4-Dichlorobenzene	ND	mg/Kg	0.0010	5.0	02/10/97	SMSVOA427

Lab ID: 9701226-04C
Sample ID: CA8/9-97-0129-1008

Collected: 01/29/97 10:08:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
SVOA(SOX) Soil/SW846 8270B	02/03/97	N/A				
n-Nitrosodimethylamine	ND	mg/Kg	1.0	1.7	02/08/97	SMSSVOA141
Pyridine	ND	mg/Kg	10	1.7	02/08/97	SMSSVOA141
Aniline	ND	mg/Kg	10	1.7	02/08/97	SMSSVOA141
bis(2-Chloroethyl) Ether	ND	mg/Kg	0.50	1.7	02/08/97	SMSSVOA141
2-Chlorophenol	ND	mg/Kg	0.50	1.7	02/08/97	SMSSVOA141
1,3-Dichlorobenzene	ND	mg/Kg	0.50	1.7	02/08/97	SMSSVOA141
1,4-Dichlorobenzene	ND	mg/Kg	0.50	1.7	02/08/97	SMSSVOA141
Phenol	ND	mg/Kg	0.50	1.7	02/08/97	SMSSVOA141
2-Dichlorobenzene	ND	mg/Kg	0.50	1.7	02/08/97	SMSSVOA141
vl Alcohol	ND	mg/Kg	10	1.7	02/08/97	SMSSVOA141
Chloroisopropyl) Ether	ND	mg/Kg	1.0	1.7	02/08/97	SMSSVOA141
thylphenol / O-Cresol	ND	mg/Kg	0.50	1.7	02/08/97	SMSSVOA141
Hexachloroethane	ND	mg/Kg	0.50	1.7	02/08/97	SMSSVOA141
n-Nitroso-di-n-propylamine	ND	mg/Kg	0.50	1.7	02/08/97	SMSSVOA141
Nitrobenzene	ND	mg/Kg	0.50	1.7	02/08/97	SMSSVOA141
3/4 Methylphenol / M/P-Cresol	ND	mg/Kg	0.50	1.7	02/08/97	SMSSVOA141
ophorone	ND	mg/Kg	0.50	1.7	02/08/97	SMSSVOA141
-Nitrophenol	ND	mg/Kg	1.0	1.7	02/08/97	SMSSVOA141
bis(2-Chloroethoxy) Methane	ND	mg/Kg	0.50	1.7	02/08/97	SMSSVOA141
2,4-Dimethylphenol	ND	mg/Kg	1.0	1.7	02/08/97	SMSSVOA141
1,2,4-Trichlorobenzene	ND	mg/Kg	0.50	1.7	02/08/97	SMSSVOA141
Naphthalene	ND	mg/Kg	0.50	1.7	02/08/97	SMSSVOA141
Benzoic Acid	ND	mg/Kg	10	1.7	02/08/97	SMSSVOA141
2,4-Dichlorophenol	ND	mg/Kg	1.0	1.7	02/08/97	SMSSVOA141
4-Chloroaniline	ND	mg/Kg	10	1.7	02/08/97	SMSSVOA141
Hexachlorobutadiene	ND	mg/Kg	0.50	1.7	02/08/97	SMSSVOA141
2-Methylnaphthalene	ND	mg/Kg	0.50	1.7	02/08/97	SMSSVOA141
4-Chloro-3-methylphenol	ND	mg/Kg	0.50	1.7	02/08/97	SMSSVOA141
Hexachlorocyclopentadiene	ND	mg/Kg	10	1.7	02/08/97	SMSSVOA141
2,4,6-Trichlorophenol	ND	mg/Kg	1.0	1.7	02/08/97	SMSSVOA141
2,4,5-Trichlorophenol	ND	mg/Kg	1.0	1.7	02/08/97	SMSSVOA141
2-Chloronaphthalene	ND	mg/Kg	0.50	1.7	02/08/97	SMSSVOA141
2-Nitroaniline	ND	mg/Kg	1.0	1.7	02/08/97	SMSSVOA141
Acenaphthylene	ND	mg/Kg	0.50	1.7	02/08/97	SMSSVOA141
Dimethylphthalate	ND	mg/Kg	0.50	1.7	02/08/97	SMSSVOA141
2,6-Dinitrotoluene	ND	mg/Kg	1.0	1.7	02/08/97	SMSSVOA141
Acenaphthene	ND	mg/Kg	0.50	1.7	02/08/97	SMSSVOA141
3-Nitroaniline	ND	mg/Kg	10	1.7	02/08/97	SMSSVOA141
Dibenzofuran	ND	mg/Kg	0.50	1.7	02/08/97	SMSSVOA141
2,4-Dinitrotoluene	ND	mg/Kg	2.5	1.7	02/08/97	SMSSVOA141
Fluorene	ND	mg/Kg	0.50	1.7	02/08/97	SMSSVOA141
4-Chlorophenyl-phenylether	ND	mg/Kg	0.50	1.7	02/08/97	SMSSVOA141
iethylphthalate	ND	mg/Kg	0.50	1.7	02/08/97	SMSSVOA141
ophenol	ND	mg/Kg	10	1.7	02/08/97	SMSSVOA141
nitro-2-methylphenol	ND	mg/Kg	10	1.7	02/08/97	SMSSVOA141
osodiphenylamine	ND	mg/Kg	0.50	1.7	02/08/97	SMSSVOA141
4-Nitroaniline	ND	mg/Kg	10	1.7	02/08/97	SMSSVOA141
4-Bromophenyl-phenylether	ND	mg/Kg	0.50	1.7	02/08/97	SMSSVOA141

ID: 9701226-04C
Sample ID: CA8/9-97-0129-1008

Collected: 01/29/97 10:08:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
SVOA(SOX) Soil/SW846 8270B						
Hexachlorobenzene	ND	mg/Kg	0.50	1.7	02/08/97	SMSSVOA141
Pentachlorophenol	ND	mg/Kg	10	1.7	02/08/97	SMSSVOA141
2,4-Dinitrophenol	ND	mg/Kg	10	1.7	02/08/97	SMSSVOA141
Phenanthrene	ND	mg/Kg	0.50	1.7	02/08/97	SMSSVOA141
Anthracene	ND	mg/Kg	0.50	1.7	02/08/97	SMSSVOA141
Di-n-butylphthalate	9.1B	mg/Kg	5.0	1.7	02/08/97	SMSSVOA141
Fluoranthene	ND	mg/Kg	0.50	1.7	02/08/97	SMSSVOA141
Pyrene	ND	mg/Kg	0.50	1.7	02/08/97	SMSSVOA141
Butylbenzylphthalate	ND	mg/Kg	0.50	1.7	02/08/97	SMSSVOA141
Benzo(a)anthracene	ND	mg/Kg	0.50	1.7	02/08/97	SMSSVOA141
Chrysene	ND	mg/Kg	0.50	1.7	02/08/97	SMSSVOA141
3,3'-Dichlorobenzidine	ND	mg/Kg	10	1.7	02/08/97	SMSSVOA141
bis(2-Ethylhexyl)phthalate	ND	mg/Kg	2.5	1.7	02/08/97	SMSSVOA141
Di-n-octyl phthalate	ND	mg/Kg	0.50	1.7	02/08/97	SMSSVOA141
Benzo(b)+(k)fluoranthene	ND	mg/Kg	0.50	1.7	02/08/97	SMSSVOA141
1-Methylnaphthalene	ND	mg/Kg	1.0	1.7	02/08/97	SMSSVOA141
Benzo(a)pyrene	ND	mg/Kg	0.50	1.7	02/08/97	SMSSVOA141
Indeno(1,2,3-cd)pyrene	ND	mg/Kg	1.0	1.7	02/08/97	SMSSVOA141
Benzo(g,h,i)perylene	ND	mg/Kg	1.0	1.7	02/08/97	SMSSVOA141
2,3,4,6-Tetrachlorophenol	ND	mg/Kg	2.5	1.7	02/08/97	SMSSVOA141
Azobenzene	ND	mg/Kg	1.0	1.7	02/08/97	SMSSVOA141
Dibenz(a,h)anthracene	ND	mg/Kg	1.0	1.7	02/08/97	SMSSVOA141

ID: 9701226-04D
Sample ID: CA8/9-97-0129-1008

Collected: 01/29/97 10:08:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
% SOLIDS(TCLP XT)EPA 160.3	100.00	% (Percent)				
CVAA Hg XT/SW846 7471	02/06/97	N/A				
MERCURY (CVAA)/SW846 7471						
Mercury	ND	mg/Kg	0.15	1.0	02/06/97	M97100
Metal(ICP) DIG /SW846 3050	01/31/97	N/A				
METALS-ICP/SW846 6010						
Silver, Ag	ND	mg/Kg	1.0	1.0	01/31/97	M9785
Aluminum, Al	NT	mg/Kg	25			M9785
Arsenic, As	ND	mg/Kg	3.0	1.0	01/31/97	M9785
Barium, Ba	168	mg/Kg	0.50	1.0	01/31/97	M9785
Beryllium, Be	NT	mg/Kg	0.50			M9785
Calcium, Ca	NT	mg/Kg	15			M9785
Cadmium, Cd	ND	mg/Kg	0.20	1.0	01/31/97	M9785
Cobalt, Co	NT	mg/Kg	0.50			M9785
Chromium, Cr	9.2	mg/Kg	1.0	1.0	01/31/97	M9785
Copper, Cu	NT	mg/Kg	0.50			M9785
Iron, Fe	NT	mg/Kg	15			M9785
Potassium, K	NT	mg/Kg	10			M9785
Magnesium, Mg	NT	mg/Kg	10			M9785
Manganese, Mn	NT	mg/Kg	0.25			M9785
Sodium, Na	NT	mg/Kg	15			M9785
Nickel, Ni	7.8	mg/Kg	2.0	1.0	01/31/97	M9785
Lead, Pb	5.4	mg/Kg	2.0	1.0	01/31/97	M9785
Antimony, Sb	NT	mg/Kg	1.5			M9785
Selenium, Se	ND	mg/Kg	2.5	1.0	01/31/97	M9785
Thallium, Tl	NT	mg/Kg	20			M9785
Vanadium, V	NT	mg/Kg	0.15			M9785
Zinc, Zn	NT	mg/Kg	5.0			M9785
TCLP (ICP) DIG/1311/3005	02/05/97	N/A				
TCLP EXTRACTION/TCLP 1311	02/04/97	N/A				

ID: 9701226-04D
Sample ID: CA8/9-97-0129-1008

Collected: 01/29/97 10:08:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
TCLP METALS/1311/SW8466010						
Arsenic, As	ND	mg/L	0.40	1.0	02/05/97	M9794,M9795
Barium, Ba	0.9	mg/L	0.50	1.0	02/05/97	M9794,M9795
Cadmium, Cd	ND	mg/L	0.0050	1.0	02/05/97	M9794,M9795
Chromium, Cr	ND	mg/L	0.020	1.0	02/05/97	M9794,M9795
Lead, Pb	ND	mg/L	0.050	1.0	02/05/97	M9794,M9795
Mercury, Hg	ND	mg/L	0.0020	1.0	02/06/97	M9794,M9795
Selenium, Se	ND	mg/L	0.050	1.0	02/05/97	M9794,M9795
Silver, Ag	ND	mg/L	0.040	1.0	02/05/97	M9794,M9795
TCLP(CVAA)Hg XT/SW846 7471	02/05/97	N/A				

Fred L. Shore, Ph.D.
VP of Laboratory Operations

WORKORDER COMMENTS

DATE : 02/13/97
WORKORDER:

DEFINITIONS/DATA QUALIFIERS

The following are definitions, abbreviations, and data qualifiers which may have been utilized in your report:

ND = Analyte "not detected" in analysis at the sample specific detection limit.
D_F = Sample "dilution factor"
NT = Analyte "not tested" per client request.
B = Analyte was also detected in laboratory method QC blank.
E = Analyte concentration (result) is an estimated value or exceeds analysis calibration range.
LIMIT = The minimum amount of the analyte that AAL can detect utilizing the specified analysis.

Please Note: Multiply the "Limit" value (AAL's Detection Limit) by Dilution Factor (D_F) to obtain the sample specific Detection Limit.

*** Analytical results reported pertain only to the samples provided ***
*** for analysis and may not represent actual field conditions. ***
*** ***
*** This report is not to be reproduced except in full, without the ***
*** written approval of Assaigai Analytical Inc. ***

REPORT COMMENTS

ASSAIGAI ANALYTICAL LABORATORIES

Chain of Custody Record

Lab job no.: 12216 Date 1/30/97

Page 1 of 1

7300 JEFFERSON, N.E.
ALBUQUERQUE, NEW MEXICO 87109
(505) 345-8964

3332 WEDGEWOOD
EL PASO, TEXAS 79925
(915) 593-6000

1910 N. BIG SPRING
MIDLAND, TEXAS 79705
(915) 570-1116

MELQUIADES ALANIS
6411 LOCAL UNO
CIUDAD JUAREZ, CHIHUAHUA MEXICO 32320

Client: Cheyenne / LCI-2

Address: 1712 S Prince St

City / State / Zip: CLOVIS NM 88101

Project Name / Number: DACA47-95-D-0035

Contract / Purchase Order / Quote: DAN MOORE

Project Manager / Contact: Mike Lauxlgra F

Telephone No.: (505) 763-1410

Fax No.: (505) 769-0780

Samplers: (Signature) [signature]

Analysis Required

AAL Fraction Number	Field Sample Number / Location	Date	Time	Sample Type	Type / Size of Container	Preservation Temp.	Preservation Chemical										Remarks
1H	CA8/1-97-0129-1000	1/29/97	10:00	Soil	1 4oz glass			1	X					X			correlation
2H	CA8/6-97-0129-1005	1/29/97	10:05	Soil	1 4oz glass			1	X					X			"
3A+D	CA8/8-97-0129-1007	1/29/97	10:07	Soil	1-4oz + 3-8oz glass			4	X	X	X	X					Confirmatory
4H+D	CA8/9-97-0129-1008	1/29/97	10:08	Soil	1-4oz + 3-8oz glass			4	X	X	X	X					Confirmatory

Relinquished by:	Date / Time	Received by:	Relinquished by:	Date / Time	Received by:
Signature: [signature]	1-29-97	Signature: [signature]	Signature:	1/30/97	Signature: [signature]
Printed: Troy Alvarado	2:42 pm	Printed: Sally Gonzales	Printed:	8:50	Printed:
Company: Cheyenne CGC		Company: TNMHO	Company: TNMHO		Company: AAL
Reason: Shipment		Reason: Shipment	Reason:		Reason:

Method of Shipment: Bus

Shipment No.:

Special Instructions:

Comments: [signature]

After analysis, samples are to be:

- ☐ Disposed of (additional fee)
- ☐ Stored (30 days max)
- ☐ Stored over 30 days (additional fee)
- ☐ Returned to customer

ASSAIGAI ANALYTICAL LABORATORIES, INC.
7300 Jefferson, N.E. • Albuquerque, New Mexico 87109 • (505) 345-8964 • FAX (505) 345-7259
3332 Wedgewood, E-5 • El Paso, Texas 79925 • (915) 593-6000 • FAX (915) 593-7820

Report Generated:
February 20, 1997 15:58

CERTIFICATE OF ANALYSIS
RESULTS BY SAMPLE

SENT TO: CHEYENNE BUILDING CONTRACTORS
P.O. BOX 418
CLOVIS, NM 88101

ATTN: MIKE LANDGRAF

WORKORDER # : 9702033
WORK ID : DACA47-95-D-0035
CLIENT CODE : CHE10
DATE RECEIVED : 02/06/97

Lab ID: 9702033-01A
Sample ID: CA32/7-97-0205-1306
Collected: 02/05/97 13:06:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
Diesel Range OG Soil/M8015						
Diesel Range OG in Soil	ND	mg/Kg	50	1.0	02/14/97	SDRO015

Lab ID: 9702033-01B
Sample ID: CA32/7-97-0205-1306
Collected: 02/05/97 13:06:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
VOLATILES/SW846 8260						
Dichlorodifluoromethane	ND	mg/Kg	0.010	5.0	02/10/97	SMSVOA427
Chloromethane	ND	mg/Kg	0.0050	5.0	02/10/97	SMSVOA427
Iodomethane	ND	mg/Kg	0.0050	5.0	02/10/97	SMSVOA427
Acetone	ND	mg/Kg	0.0050	5.0	02/10/97	SMSVOA427
Bromomethane	ND	mg/Kg	0.0050	5.0	02/10/97	SMSVOA427
Vinyl Chloride	ND	mg/Kg	0.0050	5.0	02/10/97	SMSVOA427
Chloroethane	ND	mg/Kg	0.0050	5.0	02/10/97	SMSVOA427
Trichlorofluoromethane	ND	mg/Kg	0.0050	5.0	02/10/97	SMSVOA427
Freon 113	ND	mg/Kg	0.0050	5.0	02/10/97	SMSVOA427
Carbon Disulfide	ND	mg/Kg	0.0050	5.0	02/10/97	SMSVOA427
Acrolein	ND	mg/Kg	0.020	5.0	02/10/97	SMSVOA427
Methylene Chloride	ND	mg/Kg	0.010	5.0	02/10/97	SMSVOA427
1,1-Dichloroethene	ND	mg/Kg	0.0010	5.0	02/10/97	SMSVOA427
1,1-Dichloroethane	ND	mg/Kg	0.0010	5.0	02/10/97	SMSVOA427
Acrylonitrile	ND	mg/Kg	0.020	5.0	02/10/97	SMSVOA427
trans-1,2-Dichloroethene	ND	mg/Kg	0.0010	5.0	02/10/97	SMSVOA427
Chloroform	ND	mg/Kg	0.0010	5.0	02/10/97	SMSVOA427
1,2-Dichloroethane	ND	mg/Kg	0.0010	5.0	02/10/97	SMSVOA427
Vinyl Acetate	ND	mg/Kg	0.0050	5.0	02/10/97	SMSVOA427
cis-1,2-Dichloroethene	ND	mg/Kg	0.0010	5.0	02/10/97	SMSVOA427
2-Butanone (MEK)	ND	mg/Kg	0.0050	5.0	02/10/97	SMSVOA427
1,1,1-Trichloroethane	ND	mg/Kg	0.0010	5.0	02/10/97	SMSVOA427
Carbon Tetrachloride	ND	mg/Kg	0.0010	5.0	02/10/97	SMSVOA427
Bromodichloromethane	ND	mg/Kg	0.0010	5.0	02/10/97	SMSVOA427
1,2-Dichloropropane	ND	mg/Kg	0.0010	5.0	02/10/97	SMSVOA427
Dibromomethane	ND	mg/Kg	0.0010	5.0	02/10/97	SMSVOA427
ans-1,3-Dichloropropene	ND	mg/Kg	0.0010	5.0	02/10/97	SMSVOA427
hloroethene	ND	mg/Kg	0.0010	5.0	02/10/97	SMSVOA427
odibromomethane	ND	mg/Kg	0.0010	5.0	02/10/97	SMSVOA427
Methacrylate	ND	mg/Kg	0.0050	5.0	02/10/97	SMSVOA427
2-Chloroethylvinyl Ether	ND	mg/Kg	0.0050	5.0	02/10/97	SMSVOA427

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ID: 9702033-01B
Sample ID: CA32/7-97-0205-1306

Collected: 02/05/97 13:06:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
VOLATILES/SW846 8260						
1,1,2-Trichloroethane	ND	mg/Kg	0.0010	5.0	02/10/97	SMSVOA427
Benzene	ND	mg/Kg	0.0010	5.0	02/10/97	SMSVOA427
cis-1,3-Dichloropropene	ND	mg/Kg	0.0010	5.0	02/10/97	SMSVOA427
Bromoform	ND	mg/Kg	0.0010	5.0	02/10/97	SMSVOA427
4-Methyl-2-Pentanone (MIBK)	ND	mg/Kg	0.0050	5.0	02/10/97	SMSVOA427
Tetrachloroethene	ND	mg/Kg	0.0010	5.0	02/10/97	SMSVOA427
1,1,2,2-Tetrachloroethane	ND	mg/Kg	0.0010	5.0	02/10/97	SMSVOA427
1,2-Dibromoethane	ND	mg/Kg	0.0010	5.0	02/10/97	SMSVOA427
2-Hexanone (MBK)	ND	mg/Kg	0.0050	5.0	02/10/97	SMSVOA427
1,1,1,2-Tetrachloroethane	ND	mg/Kg	0.0010	5.0	02/10/97	SMSVOA427
Toluene	ND	mg/Kg	0.0010	5.0	02/10/97	SMSVOA427
Chlorobenzene	ND	mg/Kg	0.0010	5.0	02/10/97	SMSVOA427
Ethylbenzene	ND	mg/Kg	0.0010	5.0	02/10/97	SMSVOA427
1,4-Dichloro-2-Butene	ND	mg/Kg	0.010	5.0	02/10/97	SMSVOA427
Styrene	ND	mg/Kg	0.0010	5.0	02/10/97	SMSVOA427
P/M Xylene	ND	mg/Kg	0.0020	5.0	02/10/97	SMSVOA427
O-Xylene	ND	mg/Kg	0.0010	5.0	02/10/97	SMSVOA427
1,2,3-Trichloropropane	ND	mg/Kg	0.0010	5.0	02/10/97	SMSVOA427
Methyl-tert Butyl Ether	ND	mg/Kg	0.010	5.0	02/10/97	SMSVOA427
1,2-Dichlorobenzene	ND	mg/Kg	0.0010	5.0	02/10/97	SMSVOA427
1,3-Dichlorobenzene	ND	mg/Kg	0.0010	5.0	02/10/97	SMSVOA427
1,4-Dichlorobenzene	ND	mg/Kg	0.0010	5.0	02/10/97	SMSVOA427

ID: 9702033-01C
ple ID: CA32/7-97-0205-1306

Collected: 02/05/97 13:06:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
SVOA(SOX) Soil/SW846 8270B	02/12/97	N/A				
n-Nitrosodimethylamine	ND	mg/Kg	1.0	1.8	02/19/97	SMSSVOA143
Pyridine	ND	mg/Kg	10	1.8	02/19/97	SMSSVOA143
Aniline	ND	mg/Kg	10	1.8	02/19/97	SMSSVOA143
bis(2-Chloroethyl) Ether	ND	mg/Kg	0.50	1.8	02/19/97	SMSSVOA143
2-Chlorophenol	ND	mg/Kg	0.50	1.8	02/19/97	SMSSVOA143
1,3-Dichlorobenzene	ND	mg/Kg	0.50	1.8	02/19/97	SMSSVOA143
1,4-Dichlorobenzene	ND	mg/Kg	0.50	1.8	02/19/97	SMSSVOA143
Phenol	ND	mg/Kg	0.50	1.8	02/19/97	SMSSVOA143
1,2-Dichlorobenzene	ND	mg/Kg	0.50	1.8	02/19/97	SMSSVOA143
Benzyl Alcohol	ND	mg/Kg	10	1.8	02/19/97	SMSSVOA143
bis(2-Chloroisopropyl) Ether	ND	mg/Kg	1.0	1.8	02/19/97	SMSSVOA143
2-Methylphenol / O-Cresol	ND	mg/Kg	0.50	1.8	02/19/97	SMSSVOA143
Hexachloroethane	ND	mg/Kg	0.50	1.8	02/19/97	SMSSVOA143
n-Nitroso-di-n-propylamine	ND	mg/Kg	0.50	1.8	02/19/97	SMSSVOA143
Nitrobenzene	ND	mg/Kg	0.50	1.8	02/19/97	SMSSVOA143
3/4 Methylphenol / M/P-Cresol	ND	mg/Kg	0.50	1.8	02/19/97	SMSSVOA143
Isophorone	ND	mg/Kg	0.50	1.8	02/19/97	SMSSVOA143
2-Nitrophenol	ND	mg/Kg	1.0	1.8	02/19/97	SMSSVOA143
bis(2-Chloroethoxy) Methane	ND	mg/Kg	0.50	1.8	02/19/97	SMSSVOA143
2,4-Dimethylphenol	ND	mg/Kg	1.0	1.8	02/19/97	SMSSVOA143
1,2,4-Trichlorobenzene	ND	mg/Kg	0.50	1.8	02/19/97	SMSSVOA143
Naphthalene	ND	mg/Kg	0.50	1.8	02/19/97	SMSSVOA143
Benzoic Acid	ND	mg/Kg	10	1.8	02/19/97	SMSSVOA143
2,4-Dichlorophenol	ND	mg/Kg	1.0	1.8	02/19/97	SMSSVOA143
4-Chloroaniline	ND	mg/Kg	10	1.8	02/19/97	SMSSVOA143
chlorobutadiene	ND	mg/Kg	0.50	1.8	02/19/97	SMSSVOA143
hylnaphthalene	ND	mg/Kg	0.50	1.8	02/19/97	SMSSVOA143
oro-3-methylphenol	ND	mg/Kg	0.50	1.8	02/19/97	SMSSVOA143
Hexachlorocyclopentadiene	ND	mg/Kg	10	1.8	02/19/97	SMSSVOA143

ID: 9702033-01C
Sample ID: CA32/7-97-0205-1306

Collected: 02/05/97 13:06:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
SVOA(SOX) Soil/SW846 8270B						
2,4,6-Trichlorophenol	ND	mg/Kg	1.0	1.8	02/19/97	SMSSVOA143
2,4,5-Trichlorophenol	ND	mg/Kg	1.0	1.8	02/19/97	SMSSVOA143
2-Chloronaphthalene	ND	mg/Kg	0.50	1.8	02/19/97	SMSSVOA143
2-Nitroaniline	ND	mg/Kg	1.0	1.8	02/19/97	SMSSVOA143
Acenaphthylene	ND	mg/Kg	0.50	1.8	02/19/97	SMSSVOA143
Dimethylphthalate	ND	mg/Kg	0.50	1.8	02/19/97	SMSSVOA143
2,6-Dinitrotoluene	ND	mg/Kg	1.0	1.8	02/19/97	SMSSVOA143
Acenaphthene	ND	mg/Kg	0.50	1.8	02/19/97	SMSSVOA143
3-Nitroaniline	ND	mg/Kg	10	1.8	02/19/97	SMSSVOA143
Dibenzofuran	ND	mg/Kg	0.50	1.8	02/19/97	SMSSVOA143
2,4-Dinitrotoluene	ND	mg/Kg	2.5	1.8	02/19/97	SMSSVOA143
Fluorene	ND	mg/Kg	0.50	1.8	02/19/97	SMSSVOA143
4-Chlorophenyl-phenylether	ND	mg/Kg	0.50	1.8	02/19/97	SMSSVOA143
Diethylphthalate	ND	mg/Kg	0.50	1.8	02/19/97	SMSSVOA143
4-Nitrophenol	ND	mg/Kg	10	1.8	02/19/97	SMSSVOA143
4,6-Dinitro-2-methylphenol	ND	mg/Kg	10	1.8	02/19/97	SMSSVOA143
n-Nitrosodiphenylamine	ND	mg/Kg	0.50	1.8	02/19/97	SMSSVOA143
4-Nitroaniline	ND	mg/Kg	10	1.8	02/19/97	SMSSVOA143
4-Bromophenyl-phenylether	ND	mg/Kg	0.50	1.8	02/19/97	SMSSVOA143
Hexachlorobenzene	ND	mg/Kg	0.50	1.8	02/19/97	SMSSVOA143
Pentachlorophenol	ND	mg/Kg	10	1.8	02/19/97	SMSSVOA143
2,4-Dinitrophenol	ND	mg/Kg	10	1.8	02/19/97	SMSSVOA143
Phenanthrene	ND	mg/Kg	0.50	1.8	02/19/97	SMSSVOA143
Anthracene	ND	mg/Kg	0.50	1.8	02/19/97	SMSSVOA143
i-n-butylphthalate	ND	mg/Kg	5.0	1.8	02/19/97	SMSSVOA143
ranthene	ND	mg/Kg	0.50	1.8	02/19/97	SMSSVOA143
e	ND	mg/Kg	0.50	1.8	02/19/97	SMSSVOA143
lbenzylphthalate	ND	mg/Kg	0.50	1.8	02/19/97	SMSSVOA143
Benzo(a)anthracene	ND	mg/Kg	0.50	1.8	02/19/97	SMSSVOA143
Chrysene	ND	mg/Kg	0.50	1.8	02/19/97	SMSSVOA143
3,3'-Dichlorobenzidine	ND	mg/Kg	10	1.8	02/19/97	SMSSVOA143
bis(2-Ethylhexyl)phthalate	ND	mg/Kg	2.5	1.8	02/19/97	SMSSVOA143
Di-n-octyl phthalate	ND	mg/Kg	0.50	1.8	02/19/97	SMSSVOA143
Benzo(b)+(k)fluoranthene	ND	mg/Kg	0.50	1.8	02/19/97	SMSSVOA143
1-Methylnaphthalene	ND	mg/Kg	1.0	1.8	02/19/97	SMSSVOA143
Benzo(a)pyrene	ND	mg/Kg	0.50	1.8	02/19/97	SMSSVOA143
Indeno(1,2,3-cd)pyrene	ND	mg/Kg	1.0	1.8	02/19/97	SMSSVOA143
Benzo(g,h,i)perylene	ND	mg/Kg	1.0	1.8	02/19/97	SMSSVOA143
2,3,4,6-Tetrachlorophenol	ND	mg/Kg	2.5	1.8	02/19/97	SMSSVOA143
Azobenzene	ND	mg/Kg	1.0	1.8	02/19/97	SMSSVOA143
Dibenz(a,h)anthracene	ND	mg/Kg	1.0	1.8	02/19/97	SMSSVOA143

Lab ID: 9702033-01D
Sample ID: CA32/7-97-0205-1306

Collected: 02/05/97 13:06:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
% SOLIDS(TCLP XT)EPA 160.3	100.00	% (Percent)				
CVAA Hg XT/SW846 7471	02/11/97	N/A				
MERCURY (CVAA)/SW846 7471						
Mercury	ND	mg/Kg	0.15	1.0	02/12/97	M97110
Metal(ICP) DIG /SW846 3050	02/06/97	N/A				
METALS-ICP/SW846 6010						
ilver, Ag	ND	mg/Kg	1.0	1.0	02/07/97	M97101
minum, Al	NT	mg/Kg	25			M97101
ic, As	ND	mg/Kg	3.0	1.0	02/07/97	M97101
m, Ba	125	mg/Kg	0.50	1.0	02/07/97	M97101
Beryllium, Be	NT	mg/Kg	0.50			M97101

ID: 9702033-01D **Collected:** 02/05/97 13:06:00
Sample ID: CA32/7-97-0205-1306 **Matrix:** SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
METALS-ICP/SW846 6010						
Calcium, Ca	NT	mg/Kg	15			M97101
Cadmium, Cd	ND	mg/Kg	0.20	1.0	02/07/97	M97101
Cobalt, Co	NT	mg/Kg	0.50			M97101
Chromium, Cr	9.3	mg/Kg	1.0	1.0	02/07/97	M97101
Copper, Cu	NT	mg/Kg	0.50			M97101
Iron, Fe	NT	mg/Kg	15			M97101
Potassium, K	NT	mg/Kg	10			M97101
Magnesium, Mg	NT	mg/Kg	10			M97101
Manganese, Mn	NT	mg/Kg	0.25			M97101
Sodium, Na	NT	mg/Kg	15			M97101
Nickel, Ni	6.5	mg/Kg	2.0	1.0	02/07/97	M97101
Lead, Pb	4.8	mg/Kg	2.0	1.0	02/07/97	M97101
Antimony, Sb	NT	mg/Kg	1.5			M97101
Selenium, Se	ND	mg/Kg	2.5	1.0	02/07/97	M97101
Thallium, Tl	NT	mg/Kg	20			M97101
Vanadium, V	NT	mg/Kg	0.15			M97101
Zinc, Zn	NT	mg/Kg	5.0			M97101
TCLP (ICP) DIG/1311/3005	02/13/97	N/A				
TCLP EXTRACTION/TCLP 1311	02/11/97	N/A				
TCLP METALS/1311/SW8466010						
Arsenic, As	ND	mg/L	0.40	1.0	02/13/97	M97115,M97119
Barium, Ba	1.4	mg/L	0.50	1.0	02/13/97	M97115,M97119
Cadmium, Cd	ND	mg/L	0.0050	1.0	02/13/97	M97115,M97119
Chromium, Cr	ND	mg/L	0.020	1.0	02/13/97	M97115,M97119
Lead, Pb	ND	mg/L	0.050	1.0	02/13/97	M97115,M97119
Mercury, Hg	ND	mg/L	0.0020	1.0	02/14/97	M97115,M97119
Selenium, Se	ND	mg/L	0.050	1.0	02/13/97	M97115,M97119
Silver, Ag	ND	mg/L	0.040	1.0	02/13/97	M97115,M97119
TCLP(CVAA)Hg XT/SW846 7471	02/13/97	N/A				

Lab ID: 9702033-02A **Collected:** 02/05/97 13:07:00
Sample ID: CA32/8-97-0205-1307 **Matrix:** SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
% SOLIDS(TCLP XT)EPA 160.3	100.00	% (Percent)				
Diesel Range OG Soil/M8015						
Diesel Range OG in Soil	ND	mg/Kg	50	1.0	02/07/97	SDRO014
TCLP (ICP) DIG/1311/3005	02/13/97	N/A				
TCLP EXTRACTION/TCLP 1311	02/11/97	N/A				
TCLP METALS/1311/SW8466010						
Arsenic, As	ND	mg/L	0.40	1.0	02/13/97	M97115,M97119
Barium, Ba	1.1	mg/L	0.50	1.0	02/13/97	M97115,M97119
Cadmium, Cd	ND	mg/L	0.0050	1.0	02/13/97	M97115,M97119
Chromium, Cr	ND	mg/L	0.020	1.0	02/13/97	M97115,M97119
Lead, Pb	ND	mg/L	0.050	1.0	02/13/97	M97115,M97119
Mercury, Hg	ND	mg/L	0.0020	1.0	02/14/97	M97115,M97119
Selenium, Se	ND	mg/L	0.050	1.0	02/13/97	M97115,M97119
Silver, Ag	ND	mg/L	0.040	1.0	02/13/97	M97115,M97119
TCLP(CVAA)Hg XT/SW846 7471	02/13/97	N/A				

ID: 9702033-02B **Collected:** 02/05/97 13:07:00
Sample ID: CA32/8-97-0205-1307 **Matrix:** SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
BTEX/SW846 8020A						
Benzene	ND	mg/Kg	0.0010	5.0	02/12/97	SBTXME149
Toluene	ND	mg/Kg	0.0010	5.0	02/12/97	SBTXME149
Ethylbenzene	ND	mg/Kg	0.0010	5.0	02/12/97	SBTXME149
P-&m-Xylene	ND	mg/Kg	0.0010	5.0	02/12/97	SBTXME149
O-Xylene	ND	mg/Kg	0.0010	5.0	02/12/97	SBTXME149

Lab ID: 9702033-03A **Collected:** 02/05/97 13:30:00
Sample ID: CA8/10-97-0205-1330 **Matrix:** SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
% SOLIDS(TCLP XT)EPA 160.3	100.00	% (Percent)				
Diesel Range OG Soil/M8015						
Diesel Range OG in Soil	ND	mg/Kg	50	1.0	02/07/97	SDRO014
TCLP (ICP) DIG/1311/3005	02/13/97	N/A				
TCLP EXTRACTION/TCLP 1311	02/11/97	N/A				
TCLP METALS/1311/SW8466010						
Arsenic, As	ND	mg/L	0.40	1.0	02/13/97	M97115,M97119
Barium, Ba	1.2	mg/L	0.50	1.0	02/13/97	M97115,M97119
ıdmium, Cd	ND	mg/L	0.0050	1.0	02/13/97	M97115,M97119
·mium, Cr	ND	mg/L	0.020	1.0	02/13/97	M97115,M97119
Pb	ND	mg/L	0.050	1.0	02/13/97	M97115,M97119
..ury, Hg	ND	mg/L	0.0020	1.0	02/14/97	M97115,M97119
Selenium, Se	ND	mg/L	0.050	1.0	02/13/97	M97115,M97119
Silver, Ag	ND	mg/L	0.040	1.0	02/13/97	M97115,M97119
TCLP(CVAA)Hg XT/SW846 7471	02/13/97	N/A				

Lab ID: 9702033-03B **Collected:** 02/05/97 13:30:00
Sample ID: CA8/10-97-0205-1330 **Matrix:** SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
BTEX/SW846 8020A						
Benzene	ND	mg/Kg	0.0010	5.0	02/12/97	SBTXME149
Toluene	ND	mg/Kg	0.0010	5.0	02/12/97	SBTXME149
Ethylbenzene	ND	mg/Kg	0.0010	5.0	02/12/97	SBTXME149
P-&m-Xylene	ND	mg/Kg	0.0010	5.0	02/12/97	SBTXME149
O-Xylene	ND	mg/Kg	0.0010	5.0	02/12/97	SBTXME149

Lab ID: 9702033-04A **Collected:** 02/05/97 13:01:00
Sample ID: CA32/2-97-0205-1301 **Matrix:** SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
·NCELLED SAMPLE	N/A	N/A				

ID: 9702033-04B
Sample ID: CA32/2-97-0205-1301

Collected: 02/05/97 13:01:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
BTEX/SW846 8020A						
Benzene	ND	mg/Kg	0.0010	5.0	02/12/97	SBTXME149
Toluene	ND	mg/Kg	0.0010	5.0	02/12/97	SBTXME149
Ethylbenzene	ND	mg/Kg	0.0010	5.0	02/12/97	SBTXME149
P-&m-Xylene	ND	mg/Kg	0.0010	5.0	02/12/97	SBTXME149
O-Xylene	ND	mg/Kg	0.0010	5.0	02/12/97	SBTXME149
Diesel Range OG Soil/M8015						
Diesel Range OG in Soil	ND	mg/Kg	50	1.0	02/07/97	SDRO014

Lab ID: 9702033-05A
Sample ID: CA32/5-97-0205-1304

Collected: 02/05/97 13:04:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
BTEX/SW846 8020A						
Benzene	ND	mg/Kg	0.0010	5.0	02/12/97	SBTXME149
Toluene	ND	mg/Kg	0.0010	5.0	02/12/97	SBTXME149
Ethylbenzene	ND	mg/Kg	0.0010	5.0	02/12/97	SBTXME149
P-&m-Xylene	ND	mg/Kg	0.0010	5.0	02/12/97	SBTXME149
O-Xylene	ND	mg/Kg	0.0010	5.0	02/12/97	SBTXME149
sel Range OG Soil/M8015						
l Range OG in Soil	ND	mg/Kg	50	1.0	02/07/97	SDRO014

Fred L. Shore, Ph.D.
VP of Laboratory Operations

WORKORDER COMMENTS

DATE : 02/20/97
WORKORDER:

DEFINITIONS/DATA QUALIFIERS

The following are definitions, abbreviations, and data qualifiers which may have been utilized in your report:

ND = Analyte "not detected" in analysis at the sample specific detection limit.
D_F = Sample "dilution factor"
NT = Analyte "not tested" per client request.
B = Analyte was also detected in laboratory method QC blank.
E = Analyte concentration (result) is an estimated value or exceeds analysis calibration range.
LIMIT = The minimum amount of the analyte that AAL can detect utilizing the specified analysis.

Please Note: Multiply the "Limit" value (AAL's Detection Limit) by Dilution Factor (D_F) to obtain the sample specific Detection Limit.

*** Analytical results reported pertain only to the samples provided ***
*** for analysis and may not represent actual field conditions. ***
*** ***
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*** written approval of Assaigai Analytical Inc. ***

REPORT COMMENTS

ASSAIGAI ANALYTICAL LABORATORIES

Chain of Custody Record

Lab job no.: 2032 Date 2/6/97

Page ____ of ____

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(505) 345-8964

3332 WEDGEWOOD
EL PASO, TEXAS 79925
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1910 N. BIG SPRING
MIDLAND, TEXAS 79705
(915) 570-1116

MELQUIADES ALANIS
6411 LOCAL UNO
CIUDAD JUAREZ, CHIHUAHUA MEXICO 32320

Client: Cheyenne / LCI-2 INC.

Address: 1712 Prince St

City / State / Zip: CLOVIS NM 88101

Project Name / Number: DACA47-95-D-0035

Contract / Purchase Order / Quote: Dan Moore

Project Manager / Contact: Troy Moralez

Telephone No.: 505-769-9216

Fax No.: 505-769-~~5014~~ 0180

Samplers: (Signature) [signature]

Analysis Required

Sample Number	Field Sample Number / Location	Date	Time	Sample Type	Type / Size of Container	Preservation Temp.	Preservation Chemical	No. of Containers	TPH 8015 mod	8260 VOAS	8270	6010+7470 Semi-VOA using 1311 Extraction	5020 BTEX	1311 Extraction				Remarks
1A-D	CA32/7-97-0205-1306	2/5/97	1306	Soil	1-4oz + 3-8oz glass			4	X	X	X	X						Site confirmatory
2A-B	CA32/8-97-0205-1307	"	1307	Soil	1-4oz + 1 8oz glass			2	X				X	X				excavated material
3A-B	CA8/10-97-0205-1330	"	1330	Soil	1-4oz + 1-8oz glass			2	X				X	X				excavated material
4A	CA32/2-97-0205-1301	"	1301	Soil	1-4oz glass			1	X				X					correlation
5A	CA32/5-97-0205-1304	"	1304	Soil	1-4oz glass			1	X				X					Correlation

Relinquished by:	Date	Received by:	Relinquished by:	Date	Received by:
Signature: [signature]	2/5/97	Signature: [signature]	Signature:	2/6/97	Signature: [signature]
Printed: Troy Moralez	Time	Printed: SN Gonzales	Printed:	Time 854	Printed:
Company: Cheyenne		Company: TNM+O	Company: TNM+O		Company: H+L
Reason: Shipment		Reason: Shipment	Reason:		Reason:

Method of Shipment: Bus

Shipment No.:

Special Instructions:

Comments:

After analysis, samples are to be:

- ☐ Disposed of (additional fee)
- ☐ Stored (30 days max)
- ☐ Stored over 30 days (additional fee)
- ☐ Returned to customer

U.S. ARMY CORPS OF ENGINEERS
Albuquerque District
Hazardous, Toxic and Radiologic Waste Section
4101 Jefferson Pl. NE
Albuquerque, NM 87109
505-342-3472

Chemical Quality Assurance Report (CQAR)

1. This is in reference to samples CA51/14-97-0226-1005 and CA51/15/97/-0226-1006 associated with the Cannon AFB Oil Water Seperator removal and replace project.

2. One soil sample, confirmatory sample CA51/14-97-0226-1005, arrived at Assaigai Analytical Laboratory on 26 February 1997 from Cannon AFB. The samples arrived on ice and in good condition. The samples were analyzed for the following:

- Volatile Organics (VOA) by EPA method 8260.
- Base/neutral/acid extractable organics (BNA) by Method 8270.
- TCLP Metals by EPA methods: 7471 for Mercury; and 6010 for arsenic, barium, cadmium, chromium, lead, selenium, nickel and silver; along with TCLP extraction method of 1311.
- 8 RCRA Metals plus Nickel by EPA methods: 7471 for Mercury; and 6010 for arsenic, barium, cadmium, chromium, lead, selenium, nickel and silver; and extraction method of 3050.
- Diesel Range Organics by EPA method 8015 modified.

3. One soil sample, quality assurance sample CA51/15/97/-0226-1006, was received by Southwestern Division Laboratory on 27 February 1997. The sample arrived in fair condition with a complete chain of custody. The sample was analyzed for the following:

- Volatile Organics (VOA) by EPA method 8260.
- Base/neutral/acid extractable organics (BNA) by Method 8270.
- TCLP Metals by EPA methods: 7471 for Mercury; and 6010 for arsenic, barium, cadmium, chromium, lead, selenium, and silver; along with TCLP extraction method of 1311.
- 8 RCRA Metals plus Nickel by EPA methods: 7471 for Mercury; and 6010 for arsenic, barium, cadmium, chromium, lead, selenium, and silver; and extraction method of 3050.
- Diesel Range Organics by EPA method 8015 modified.

The samples were distributed by Southwestern Division Laboratory for analysis as shown in the following table:

Laboratories	Sample Types
Southwestern Division	CA51/15/97/-0226-1006: 8260, 8270, ICP-metals,and 8015-MOD
Inchcape Testing Services	CA51/15/97/-0226-1006: TCLP-metals

4. The data package from both Southwestern Division Laboratory and Assaigai Analytical Laboratory contained all required internal quality control information. The analysis was performed using the specified method within the proper holding times. The majority of RPDs, and the matrix spike and laboratory control recoveries were within control limits with the following exceptions:

Assaigai Analytical Laboratory

- The laboratory method blank associated with the BNA batch was positive for Di-N-Butylphthalate at 16 mg/Kg. All other laboratory method blanks associated with the analyses were free of target analytes.
- The matrix spike and duplicate recoveries and RPDs associated with the analyses requested were within AAL's QC limits with the exception of the percent recoveries and RPDs of the ICP RCRA metals analysis. Due to matrix interference and the dilutions necessary to obtain readings the matrix spikes were rendered non-recoverable. The LCS/LCSD recoveries and RPDs were within QC criteria demonstrating method and system performance.
- The sample/duplicate Relative Percent Difference (RPD) associated with the analysis of chromium were outside the laboratory QC limits. The concentration was near the detection limit where any small variance can cause a high RPD. Additionally, the RPD for barium was also higher than criteria due to a heterogeneous sample matrix.

Southwestern Division Laboratory

- For volatiles: in batch 970303S1; a LCS and LCSD was prepared instead of an MS and MSD.
- For metals: sample S70112-1;-1; a 1/2 dilution was used for silver and cadmium analysis. The results were below the detection limit.
- In batch HG-06S97; the sample duplicate RPD for mercury was outside of quality control limits.
- In batch 7-35S; the MS, MS/MSD RPD, and sample duplicate for

arsenic were outside of quality control limits due to a non-homgeneous sample.

- In batch I-21S97; the MS and MS/MSD RPD for barium were outside of quality control limits.
- For Semi-Volatiles: in batch 970311S10; a LCS and LCSD was prepared instead of a MS and MSD.
- In batch 970311S10; the LCS/LCSD RPD for 2,4-dinitrophenol was outside of quality control limits.

Inchcape Testing Services

- For TCLP metals: sample S70112-1; a 1/5 dilution was used for selenium, silver, arsenic, barium, cadmium, and chromium. The results were below the detection limit.

All method blanks were free of contamination.

5. One soil sample was analyzed in duplicate (field (CA51/14-97-0226-1005), and QA split (CA51/15/97/-0226-1006)) for VOA, BNA, TCLP and Total Metals, and TPH-Diesel Range. The VOA, BNA, and TPH analyses showed 100% agreement for the field, QC and QA analyte determinations (all were non-detectable) with the exception of naphthalene and 1,2,4-Trimethylbenzene in the VOA analysis which were reported by Southwestern Division Laboratory at 15.4 ppb and 3.3 ppb respectively in the QA sample. These two compounds were not detected by Assaigai Analytical Laboratory in either the VOA or the BNA analysis. The metals analysis comparison is as follows:

Table 1. Total Metals Analysis Comparison (mg/Kg).

Analyte	Field Result	QA result	Method Field/QA	Comment
Mercury	ND	0.014	7471/7471	agree
Arsenic	ND	3.5	6010/7060	agree
Barium	1070	339	6010/6010	agree
Cadmium	ND	<0.2	6010/6010	agree
Chromium	26.3	6.73	6010/6010	agree
Lead	<10	6.13	6010/6010	agree
Selenium	ND	0.838	6010/7740	agree
Silver	ND	<12	6010/6010	agree

Table 2. TCLP Metals Analysis Comparison (mg/L).

Analyte	Field Result	QA result	Method Field/QA	Comment
Mercury	ND	ND	7471/7470	agree
Arsenic	ND	ND	6010/6010	agree
Barium	0.8	ND	6010/6010	agree
Cadmium	ND	ND	6010/6010	agree
Chromium	ND	ND	6010/6010	agree
Lead	ND	ND	6010/6010	agree
Selenium	ND	ND	6010/7740	agree
Silver	ND	<4	6010/6010	agree

ASSAIGAI ANALYTICAL LABORATORIES

Chain of Custody Record

Lab job no.: 2187 Date: 2-26-97

Page ____ of ____

7300 JEFFERSON, N.E.
ALBUQUERQUE, NEW MEXICO 87
(505) 345-8964

3332 WEDGEWOOD
EL PASO, TEXAS 79925
(915) 593-6000

1910 N. BIG SPRING
MIDLAND, TEXAS 79705
(915) 570-1116

MELQUIADES ALANIS
6411 LOCAL UNO
CIUDAD JUAREZ, CHIHUAHUA MEXICO 32320

Client: Cheyenne / LCI-2, INC.

Address: 1712 Sprix St C

City / State / Zip: Clovis NM 88101

Project Name / Number: DACA47-95-D-0035

Contract / Purchase Order / Quote: Dan Moore

Project Manager / Contact: Mike Landgraf

Telephone No.: 505 763-1410

Fax No.: 505 769-0780

Samplers: (Signature)

Analysis Required

AAL Fraction Number	Field Sample Number / Location	Date	Time	Sample Type	Type / Size of Container	Preservation Temp.	Preservation Chemical	No. of Containers	TPH 8015 MOD Gros	8260 VOAs	8270 Semi-VOAs 610 + 1677 + 1311 Extraction	6020 BTEX				Remarks
(1H)	CA51/10-97-0226-1001	2/26/97	10:01	soil	1 4oz glass			1	X				X			composition
H, 21	CA51/19-97-0226-1105	2/26/97	10:05	soil	1 4oz + 3 8oz glass			4	X	X	X	X				site confirmatory
(21)																

Relinquished by:	Date	Received by:	Relinquished by:	Date	Received by:
Signature: [signature]	2/26/97	Signature: [signature]	Signature:	2/27/97	Signature: [signature]
Printed: Troy Atwater	Time: 3:00 pm	Printed: Sally Gonzales	Printed:	Time: 9:30 AM	Printed: Eileen Kaplan
Company: Cheyenne		Company: TNMEO	Company: TNMEO		Company: AAL
Reason: Shipment		Reason: Shipment	Reason: Transport		Reason:

Method of Shipment: Bus

Shipment No.:

Special Instructions:

Comments:

After analysis, samples are to be:

- ☐ Disposed of (additional fee)
- ☐ Stored (30 days max)
- ☐ Stored over 30 days (additional fee)
- ☐ Returned to customer

ASSAIGAI PROJECT FILE

MIPR#	SWD LAB# 570112-1	CHEST #

U S ARMY CORP OF ENGINEERS
SOUTHWESTERN DIVISION LABORATORY
4815 Cass Street
Dallas, Texas 75235
(214) 905-9130

Chain-of Custody

District: Albuquerque Date Sampled: 2/26/97 Time: 10:30

Location: Cannon AFB Site: SWMU 51-unit inside build

Boring/Well #: _____ ID Field # CA51/IS/97-0226-1000 → 570112-1

Project Manager: Susan Gant Phone #: 505-342-3471 Ext: —

Requested Due Date: regular turnaround
(30 days for regular turnaround)

Containers

Glass	Plastic	Jar	Vial	Bag
		4		

Parameter	Preservative	Test Methods
Volatile Organics	4°C	8260
Semi-Volatile Organics	4°C	3540B/8270
Ag, As; Ba; Cd; Cr; Pb; Se	4°C	3050 / 6010
Hg	4°C	7471
TCLP: As; Ba; Cd; Cr; Se; Ag	4°C	1311 / 6010
TCLP: Hg	4°C	1311 / 7471
Extractable Petroleum Hydro	4°C	8015M

Custody Record

Relinquished By	Date/Time	Received by	Date/Time
Monique Starman	1:00 2/26/97	Gray Hound	
		Randy Smith	27FEB97/0800

CESWD-EIE-GL
Cooler Receipt Form

5-1-95

CEFMS # _____ LIMS # 570112

Date Received 27FEB97 MIPR # _____

Date Checked In 27FEB97 Project CANNON AFB

By (sign) [signature] District ALBUQUERQUE

Carrier/Bill # GD 901 644 5490

1. Custody Seals?/Location 1FE1B — Yes No
2. Samples were non-radioactive? ..... Yes No
3. Chain of custody in plastic? ..... Yes No
4. Temperature at receipt _____ (OK = 4 +/- 2°C: OK NOK
5. Ice & Packing ICE/FOAM-WRAP
6. Chain of Custody filled out properly? ..... Yes No
7. All containers in separate bags? ..... Yes No
8. Sample containers intact? ..... Yes No
9. Label(s) complete & in good condition? ..... Yes No
10. Label(s) agree with chain of custody? ..... Yes No
11. Correct containers used? ..... Yes No
12. Sufficient sample? ..... Yes No
13. VOA vials bubble-free (H_2O) or no head space (soil)? Yes No
14. Preservation OK? TM pH____; TRPH pH____; TOC pH____; TOX pH____; CN pH____; N/P pH____; Other pH____ Yes No

Comments #7- NO BAGS

ASSAIGAI
ANALYTICAL
ABORATORIES, INC.
00 Jefferson, N.E. • Albuquerque, New Mexico 87109 • (505) 345-8964 • FAX (505) 345-7259
3332 Wedgewood, E-5 • El Paso, Texas 79925 • (915) 593-6000 • FAX (915) 593-7820

port Generated:
March 12, 1997 13:25

CERTIFICATE OF ANALYSIS
RESULTS BY SAMPLE

SENT TO: CHEYENNE BUILDING CONTRACTORS
P.O. BOX 418
CLOVIS, NM 88101

ATTN: MIKE LANDGRAF

WORKORDER # : 9702187
WORK ID : DACA47-95-D-0035
CLIENT CODE : CHE10
DATE RECEIVED : 02/26/97

Lab ID: 9702187-01A
Sample ID: CA51/10-97-0226-1001
Collected: 02/26/97 10:01:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
BTEX/SW846 8020A						
Benzene	ND	mg/Kg	0.0010	5.0	02/28/97	SMSVOA433
Toluene	ND	mg/Kg	0.0010	5.0	02/28/97	SMSVOA433
Ethylbenzene	ND	mg/Kg	0.0010	5.0	02/28/97	SMSVOA433
P-&m-Xylene	ND	mg/Kg	0.0010	5.0	02/28/97	SMSVOA433
O-Xylene	ND	mg/Kg	0.0010	5.0	02/28/97	SMSVOA433
sel Range OG Soil/M8015						
l Range OG in Soil	ND	mg/Kg	50	1.0	03/05/97	SDRO017

Lab ID: 9702187-02A
Sample ID: CA51/14-97-0226-1005
Collected: 02/26/97 10:05:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
Diesel Range OG Soil/M8015						
Diesel Range OG in Soil	ND	mg/Kg	50	1.0	03/05/97	SDRO017

Lab ID: 9702187-02B
Sample ID: CA51/14-97-0226-1005
Collected: 02/26/97 10:05:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
VOLATILES/SW846 8260						
Dichlorodifluoromethane	ND	mg/Kg	0.010	5.0	02/28/97	SMSVOA433
Chloromethane	ND	mg/Kg	0.0050	5.0	02/28/97	SMSVOA433
Iodomethane	ND	mg/Kg	0.0050	5.0	02/28/97	SMSVOA433
Acetone	ND	mg/Kg	0.0050	5.0	02/28/97	SMSVOA433
Bromomethane	ND	mg/Kg	0.0050	5.0	02/28/97	SMSVOA433
Vinyl Chloride	ND	mg/Kg	0.0050	5.0	02/28/97	SMSVOA433
Chloroethane	ND	mg/Kg	0.0050	5.0	02/28/97	SMSVOA433
richlorofluoromethane	ND	mg/Kg	0.0050	5.0	02/28/97	SMSVOA433
on 113	ND	mg/Kg	0.0050	5.0	02/28/97	SMSVOA433
n Disulfide	ND	mg/Kg	0.0050	5.0	02/28/97	SMSVOA433
in	ND	mg/Kg	0.020	5.0	02/28/97	SMSVOA433
ylene Chloride	ND	mg/Kg	0.010	5.0	02/28/97	SMSVOA433

Member: American Council of Independent Laboratories, Inc.

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THIS REPORT MAY NOT BE USED IN ANY MANNER BY THE CLIENT OR ANY OTHER THIRD PARTY TO CLAIM
PRODUCT ENDORSEMENT BY THE NATIONAL VOLUNTARY LABORATORY ACCREDITATION PROGRAM.

D: 9702187-02B
Sample ID: CA51/14-97-0226-1005

Collected: 02/26/97 10:05:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
VOLATILES/SW846 8260						
1,1-Dichloroethene	ND	mg/Kg	0.0010	5.0	02/28/97	SMSVOA433
1,1-Dichloroethane	ND	mg/Kg	0.0010	5.0	02/28/97	SMSVOA433
Acrylonitrile	ND	mg/Kg	0.020	5.0	02/28/97	SMSVOA433
trans-1,2-Dichloroethene	ND	mg/Kg	0.0010	5.0	02/28/97	SMSVOA433
Chloroform	ND	mg/Kg	0.0010	5.0	02/28/97	SMSVOA433
1,2-Dichloroethane	ND	mg/Kg	0.0010	5.0	02/28/97	SMSVOA433
Vinyl Acetate	ND	mg/Kg	0.0050	5.0	02/28/97	SMSVOA433
cis-1,2-Dichloroethene	ND	mg/Kg	0.0010	5.0	02/28/97	SMSVOA433
2-Butanone (MEK)	ND	mg/Kg	0.0050	5.0	02/28/97	SMSVOA433
1,1,1-Trichloroethane	ND	mg/Kg	0.0010	5.0	02/28/97	SMSVOA433
Carbon Tetrachloride	ND	mg/Kg	0.0010	5.0	02/28/97	SMSVOA433
Bromodichloromethane	ND	mg/Kg	0.0010	5.0	02/28/97	SMSVOA433
1,2-Dichloropropane	ND	mg/Kg	0.0010	5.0	02/28/97	SMSVOA433
Dibromomethane	ND	mg/Kg	0.0010	5.0	02/28/97	SMSVOA433
trans-1,3-Dichloropropene	ND	mg/Kg	0.0010	5.0	02/28/97	SMSVOA433
Trichloroethene	ND	mg/Kg	0.0010	5.0	02/28/97	SMSVOA433
Chlorodibromomethane	ND	mg/Kg	0.0010	5.0	02/28/97	SMSVOA433
Ethyl Methacrylate	ND	mg/Kg	0.0050	5.0	02/28/97	SMSVOA433
2-Chloroethylvinyl Ether	ND	mg/Kg	0.0050	5.0	02/28/97	SMSVOA433
1,1,2-Trichloroethane	ND	mg/Kg	0.0010	5.0	02/28/97	SMSVOA433
Benzene	ND	mg/Kg	0.0010	5.0	02/28/97	SMSVOA433
cis-1,3-Dichloropropene	ND	mg/Kg	0.0010	5.0	02/28/97	SMSVOA433
Bromoform	ND	mg/Kg	0.0010	5.0	02/28/97	SMSVOA433
4-Methyl-2-Pentanone (MIBK)	ND	mg/Kg	0.0050	5.0	02/28/97	SMSVOA433
Tetrachloroethene	ND	mg/Kg	0.0010	5.0	02/28/97	SMSVOA433
1,1,2,2-Tetrachloroethane	ND	mg/Kg	0.0010	5.0	02/28/97	SMSVOA433
Dibromoethane	ND	mg/Kg	0.0010	5.0	02/28/97	SMSVOA433
2-Hexanone (MBK)	ND	mg/Kg	0.0050	5.0	02/28/97	SMSVOA433
1,1,1,2-Tetrachloroethane	ND	mg/Kg	0.0010	5.0	02/28/97	SMSVOA433
Toluene	ND	mg/Kg	0.0010	5.0	02/28/97	SMSVOA433
Chlorobenzene	ND	mg/Kg	0.0010	5.0	02/28/97	SMSVOA433
Ethylbenzene	ND	mg/Kg	0.0010	5.0	02/28/97	SMSVOA433
1,4-Dichloro-2-Butene	ND	mg/Kg	0.010	5.0	02/28/97	SMSVOA433
Styrene	ND	mg/Kg	0.0010	5.0	02/28/97	SMSVOA433
P/M Xylene	ND	mg/Kg	0.0020	5.0	02/28/97	SMSVOA433
O-Xylene	ND	mg/Kg	0.0010	5.0	02/28/97	SMSVOA433
1,2,3-Trichloropropane	ND	mg/Kg	0.0010	5.0	02/28/97	SMSVOA433
Methyl-tert Butyl Ether	ND	mg/Kg	0.010	5.0	02/28/97	SMSVOA433
1,2-Dichlorobenzene	ND	mg/Kg	0.0010	5.0	02/28/97	SMSVOA433
1,3-Dichlorobenzene	ND	mg/Kg	0.0010	5.0	02/28/97	SMSVOA433
1,4-Dichlorobenzene	ND	mg/Kg	0.0010	5.0	02/28/97	SMSVOA433

Lab ID: 9702187-02C
Sample ID: CA51/14-97-0226-1005

Collected: 02/26/97 10:05:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
SVOA(SOX) Soil/SW846 8270B	02/27/97	N/A				
n-Nitrosodimethylamine	ND	mg/Kg	1.0	1.8	02/28/97	SMSSVOA144
Pyridine	ND	mg/Kg	10	1.8	02/28/97	SMSSVOA144
Aniline	ND	mg/Kg	10	1.8	02/28/97	SMSSVOA144
bis(2-Chloroethyl) Ether	ND	mg/Kg	0.50	1.8	02/28/97	SMSSVOA144
2-Chlorophenol	ND	mg/Kg	0.50	1.8	02/28/97	SMSSVOA144
1,3-Dichlorobenzene	ND	mg/Kg	0.50	1.8	02/28/97	SMSSVOA144
1,4-Dichlorobenzene	ND	mg/Kg	0.50	1.8	02/28/97	SMSSVOA144
[illegible]	ND	mg/Kg	0.50	1.8	02/28/97	SMSSVOA144
[illegible]-Dichlorobenzene	ND	mg/Kg	0.50	1.8	02/28/97	SMSSVOA144
Benzyl Alcohol	ND	mg/Kg	10	1.8	02/28/97	SMSSVOA144

D: 9702187-02C
Sample ID: CA51/14-97-0226-1005

Collected: 02/26/97 10:05:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
SVOA(SOX) Soil/SW846 8270B						
bis(2-Chloroisopropyl) Ether	ND	mg/Kg	1.0	1.8	02/28/97	SMSSVOA144
2-Methylphenol / O-Cresol	ND	mg/Kg	0.50	1.8	02/28/97	SMSSVOA144
Hexachloroethane	ND	mg/Kg	0.50	1.8	02/28/97	SMSSVOA144
n-Nitroso-di-n-propylamine	ND	mg/Kg	0.50	1.8	02/28/97	SMSSVOA144
Nitrobenzene	ND	mg/Kg	0.50	1.8	02/28/97	SMSSVOA144
3/4 Methylphenol / M/P-Cresol	ND	mg/Kg	0.50	1.8	02/28/97	SMSSVOA144
Isophorone	ND	mg/Kg	0.50	1.8	02/28/97	SMSSVOA144
2-Nitrophenol	ND	mg/Kg	1.0	1.8	02/28/97	SMSSVOA144
bis(2-Chloroethoxy) Methane	ND	mg/Kg	0.50	1.8	02/28/97	SMSSVOA144
2,4-Dimethylphenol	ND	mg/Kg	1.0	1.8	02/28/97	SMSSVOA144
1,2,4-Trichlorobenzene	ND	mg/Kg	0.50	1.8	02/28/97	SMSSVOA144
Naphthalene	ND	mg/Kg	0.50	1.8	02/28/97	SMSSVOA144
Benzoic Acid	ND	mg/Kg	10	1.8	02/28/97	SMSSVOA144
2,4-Dichlorophenol	ND	mg/Kg	1.0	1.8	02/28/97	SMSSVOA144
4-Chloroaniline	ND	mg/Kg	10	1.8	02/28/97	SMSSVOA144
Hexachlorobutadiene	ND	mg/Kg	0.50	1.8	02/28/97	SMSSVOA144
2-Methylnaphthalene	ND	mg/Kg	0.50	1.8	02/28/97	SMSSVOA144
4-Chloro-3-methylphenol	ND	mg/Kg	0.50	1.8	02/28/97	SMSSVOA144
Hexachlorocyclopentadiene	ND	mg/Kg	10	1.8	02/28/97	SMSSVOA144
2,4,6-Trichlorophenol	ND	mg/Kg	1.0	1.8	02/28/97	SMSSVOA144
2,4,5-Trichlorophenol	ND	mg/Kg	1.0	1.8	02/28/97	SMSSVOA144
2-Chloronaphthalene	ND	mg/Kg	0.50	1.8	02/28/97	SMSSVOA144
2-Nitroaniline	ND	mg/Kg	1.0	1.8	02/28/97	SMSSVOA144
Acenaphthylene	ND	mg/Kg	0.50	1.8	02/28/97	SMSSVOA144
Dimethylphthalate	ND	mg/Kg	0.50	1.8	02/28/97	SMSSVOA144
2,6-Dinitrotoluene	ND	mg/Kg	1.0	1.8	02/28/97	SMSSVOA144
Acenaphthene	ND	mg/Kg	0.50	1.8	02/28/97	SMSSVOA144
3-Nitroaniline	ND	mg/Kg	10	1.8	02/28/97	SMSSVOA144
Dibenzofuran	ND	mg/Kg	0.50	1.8	02/28/97	SMSSVOA144
2,4-Dinitrotoluene	ND	mg/Kg	2.5	1.8	02/28/97	SMSSVOA144
Fluorene	ND	mg/Kg	0.50	1.8	02/28/97	SMSSVOA144
4-Chlorophenyl-phenylether	ND	mg/Kg	0.50	1.8	02/28/97	SMSSVOA144
Diethylphthalate	ND	mg/Kg	0.50	1.8	02/28/97	SMSSVOA144
4-Nitrophenol	ND	mg/Kg	10	1.8	02/28/97	SMSSVOA144
4,6-Dinitro-2-methylphenol	ND	mg/Kg	10	1.8	02/28/97	SMSSVOA144
n-Nitrosodiphenylamine	ND	mg/Kg	0.50	1.8	02/28/97	SMSSVOA144
4-Nitroaniline	ND	mg/Kg	10	1.8	02/28/97	SMSSVOA144
4-Bromophenyl-phenylether	ND	mg/Kg	0.50	1.8	02/28/97	SMSSVOA144
Hexachlorobenzene	ND	mg/Kg	0.50	1.8	02/28/97	SMSSVOA144
Pentachlorophenol	ND	mg/Kg	10	1.8	02/28/97	SMSSVOA144
2,4-Dinitrophenol	ND	mg/Kg	10	1.8	02/28/97	SMSSVOA144
Phenanthrene	ND	mg/Kg	0.50	1.8	02/28/97	SMSSVOA144
Anthracene	ND	mg/Kg	0.50	1.8	02/28/97	SMSSVOA144
Di-n-butylphthalate	ND	mg/Kg	5.0	1.8	02/28/97	SMSSVOA144
Fluoranthene	ND	mg/Kg	0.50	1.8	02/28/97	SMSSVOA144
Pyrene	ND	mg/Kg	0.50	1.8	02/28/97	SMSSVOA144
Butylbenzylphthalate	ND	mg/Kg	0.50	1.8	02/28/97	SMSSVOA144
Benzo(a)anthracene	ND	mg/Kg	0.50	1.8	02/28/97	SMSSVOA144
Chrysene	ND	mg/Kg	0.50	1.8	02/28/97	SMSSVOA144
3,3'-Dichlorobenzidine	ND	mg/Kg	10	1.8	02/28/97	SMSSVOA144
bis(2-Ethylhexyl)phthalate	ND	mg/Kg	2.5	1.8	02/28/97	SMSSVOA144
Di-n-octyl phthalate	ND	mg/Kg	0.50	1.8	02/28/97	SMSSVOA144
Benzo(b)+(k)fluoranthene	ND	mg/Kg	0.50	1.8	02/28/97	SMSSVOA144
1-Methylnaphthalene	ND	mg/Kg	1.0	1.8	02/28/97	SMSSVOA144
Benzo(a)pyrene	ND	mg/Kg	0.50	1.8	02/28/97	SMSSVOA144
Indeno(1,2,3-cd)pyrene	ND	mg/Kg	1.0	1.8	02/28/97	SMSSVOA144
Benzo(g,h,i)perylene	ND	mg/Kg	1.0	1.8	02/28/97	SMSSVOA144
2,3,4,6-Tetrachlorophenol	ND	mg/Kg	2.5	1.8	02/28/97	SMSSVOA144
[illegible]benzene	ND	mg/Kg	1.0	1.8	02/28/97	SMSSVOA144
[illegible](a,h)anthracene	ND	mg/Kg	1.0	1.8	02/28/97	SMSSVOA144

ID: 9702187-02D
Sample ID: CA51/14-97-0226-1005

Collected: 02/26/97 10:05:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
% SOLIDS(TCLP XT)EPA 160.3	100.00	% (Percent)				
CVAA Hg XT/SW846 7471	03/05/97	N/A				
MERCURY (CVAA)/SW846 7471						
Mercury	ND	mg/Kg	0.15	1.0	03/11/97	M97181
Metal(ICP) DIG /SW846 3050	03/05/97	N/A				
METALS-ICP/SW846 6010						
Silver, Ag	ND	mg/Kg	1.0	5.0	03/06/97	M97169
Aluminum, Al	NT	mg/Kg	25			M97169
Arsenic, As	ND	mg/Kg	3.0	5.0	03/06/97	M97169
Barium, Ba	1070	mg/Kg	0.50	5.0	03/06/97	M97169
Beryllium, Be	NT	mg/Kg	0.50			M97169
Calcium, Ca	NT	mg/Kg	15			M97169
Cadmium, Cd	ND	mg/Kg	0.20	5.0	03/06/97	M97169
Cobalt, Co	NT	mg/Kg	0.50			M97169
Chromium, Cr	26.3	mg/Kg	1.0	5.0	03/06/97	M97169
Copper, Cu	NT	mg/Kg	0.50			M97169
Iron, Fe	NT	mg/Kg	15			M97169
Potassium, K	NT	mg/Kg	10			M97169
Magnesium, Mg	NT	mg/Kg	10			M97169
Manganese, Mn	NT	mg/Kg	0.25			M97169
Sodium, Na	NT	mg/Kg	15			M97169
Nickel, Ni	14.4	mg/Kg	2.0	5.0	03/06/97	M97169
Lead, Pb	ND	mg/Kg	2.0	5.0	03/06/97	M97169
Antimony, Sb	NT	mg/Kg	1.5			M97169
Selenium, Se	ND	mg/Kg	2.5	5.0	03/06/97	M97169
Thallium, Tl	NT	mg/Kg	20			M97169
Vanadium, V	NT	mg/Kg	0.15			M97169
Zn	NT	mg/Kg	5.0			M97169
Total (ICP) DIG/1311/3005	03/05/97	N/A				
TCLP EXTRACTION/TCLP 1311	03/03/97	N/A				
TCLP METALS/1311/SW8466010						
Arsenic, As	ND	mg/L	0.40	1.0	03/06/97	M97167,M97172
Barium, Ba	0.8	mg/L	0.50	1.0	03/06/97	M97167,M97172
Cadmium, Cd	ND	mg/L	0.0050	1.0	03/06/97	M97167,M97172
Chromium, Cr	ND	mg/L	0.020	1.0	03/06/97	M97167,M97172
Lead, Pb	ND	mg/L	0.050	1.0	03/06/97	M97167,M97172
Mercury, Hg	ND	mg/L	0.0020	1.0	03/06/97	M97167,M97172
Selenium, Se	ND	mg/L	0.050	1.0	03/06/97	M97167,M97172
Silver, Ag	ND	mg/L	0.040	1.0	03/06/97	M97167,M97172
TCLP(CVAA)Hg XT/SW846 7471	03/05/97	N/A				

Fred L. Shore, Ph.D.
VP of Laboratory Operations

WORKORDER COMMENTS

DATE : 03/12/97
WORKORDER: 9702187

DEFINITIONS/DATA QUALIFIERS

The following are definitions, abbreviations, and data qualifiers which may have been utilized in your report:

ND = Analyte "not detected" in analysis at the sample specific detection limit.
D_F = Sample "dilution factor"
NT = Analyte "not tested" per client request.
B = Analyte was also detected in laboratory method QC blank.
E = Analyte concentration (result) is an estimated value or exceeds analysis calibration range.
LIMIT = The minimum amount of the analyte that AAL can detect utilizing the specified analysis.

Please Note: Multiply the "Limit" value (AAL's Detection Limit) by Dilution Factor (D_F) to obtain the sample specific Detection Limit.

REPORT COMMENTS

*Please Note: Analysis for BTEX was performed by EPA method 8240.

Chain of Custody Record

SAIGAI ANALYTICAL LABORATORIES

Lab job no.: 2187 Date: 7-26-97

Page ____ of ____

Client: Cheyenne / LCI-2, INC

Address: 1712 S Prince St

City / State / Zip: Clovis NM 88101

Project Name / Number: DACA47-95-D-0035

Contract / Purchase Order / Quote: Dan Moore

Project Manager / Contact: Mike Lardy

Telephone No.: 505-763-1410

Fax No.: 505-769-0780

Samplers: (Signature)

7300 JEFFERSON, N.E.
ALBUQUERQUE, NEW MEXICO
(505) 345-8964

3332 WEDGEWOOD
EL PASO, TEXAS 79925
(915) 593-6000

1910 N. BIG SPRING
MIDLAND, TEXAS 79705
(915) 570-1116

MELQUIADES ALANIS
6411 LOCAL UNO
CIUDAD JUAREZ, CHIHUAHUA MEXICO 32320

OFFICE USE ONLY

AAL Fraction Number	Field Sample Number / Location	Date	Time	Sample Type	Type and Number of Containers	Preservative Type	Preservative Number											
(X)	CAS1/10-97-0726-1001	7/26/97	10:01	soil	1 40z glass			1	X				X					
2187	CAS1/19-97-0726-1005	7/26/97	10:05	soil	1 40z & 3 80z glass			4	X	X	X	X						Sent confirmatory
(X)																		

Relinquished by:	Date	Received by:	Relinquished by:	Date	Received by:
Signature:	7/26/97	Signature:	Signature:	7/27/97	Signature:
Printed: Troy Morales	Time: 3:00 pm	Printed: Sally Gonzales	Printed:	Time: 9:30 am	Printed:
Company: Cheyenne		Company: T.N.M.&O	Company: T.N.M.&O		Company:
Reason: Shipment		Reason: Shipment	Reason: Transport		Reason:

Method of Shipment: Bus

Shipment No.:

Special Instructions:

Comments:

After analysis, samples are to be:
- ☐ Disposed of (additional fee)
- ☐ Stored (30 days max)
- ☐ Stored over 30 days (additional fee)
- ☐ Returned to customer

COURIER

ASSAIGAI ANALYTICAL LABORATORIES, INC.
7300 Jefferson, N.E. • Albuquerque, New Mexico 87109 • (505) 345-8964 • FAX (505) 345-7259
3332 Wedgewood, E-5 • El Paso, Texas 79925 • (915) 593-6000 • FAX (915) 593-7820

Report Generated:
March 7, 1997 13:45

CERTIFICATE OF ANALYSIS
RESULTS BY SAMPLE

SENT TO: CHEYENNE BUILDING CONTRACTORS
P.O. BOX 418
CLOVIS, NM 88101

ATTN: MIKE LANDGRAF

WORKORDER # : 9702158
WORK ID : DACA47-95-D-0035
CLIENT CODE : CHE10
DATE RECEIVED : 02/21/97

Lab ID: 9702158-01A
Sample ID: CA51/7-97-0220-1306
Collected: 02/20/97 13:06:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
Diesel Range OG Soil/M8015						
Diesel Range OG in Soil	ND	mg/Kg	50	1.0	02/27/97	SDRO016

Lab ID: 9702158-01B
Sample ID: CA51/7-97-0220-1306
Collected: 02/20/97 13:06:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
VOLATILES/SW846 8260						
Dichlorodifluoromethane	ND	mg/Kg	0.010	5.0	02/28/97	SMSVOA433
Chloromethane	ND	mg/Kg	0.0050	5.0	02/28/97	SMSVOA433
Iodomethane	ND	mg/Kg	0.0050	5.0	02/28/97	SMSVOA433
Acetone	ND	mg/Kg	0.0050	5.0	02/28/97	SMSVOA433
Bromomethane	ND	mg/Kg	0.0050	5.0	02/28/97	SMSVOA433
Vinyl Chloride	ND	mg/Kg	0.0050	5.0	02/28/97	SMSVOA433
Chloroethane	ND	mg/Kg	0.0050	5.0	02/28/97	SMSVOA433
Trichlorofluoromethane	ND	mg/Kg	0.0050	5.0	02/28/97	SMSVOA433
Freon 113	ND	mg/Kg	0.0050	5.0	02/28/97	SMSVOA433
Carbon Disulfide	ND	mg/Kg	0.0050	5.0	02/28/97	SMSVOA433
Acrolein	ND	mg/Kg	0.020	5.0	02/28/97	SMSVOA433
Methylene Chloride	ND	mg/Kg	0.010	5.0	02/28/97	SMSVOA433
1,1-Dichloroethene	ND	mg/Kg	0.0010	5.0	02/28/97	SMSVOA433
1,1-Dichloroethane	ND	mg/Kg	0.0010	5.0	02/28/97	SMSVOA433
Acrylonitrile	ND	mg/Kg	0.020	5.0	02/28/97	SMSVOA433
trans-1,2-Dichloroethene	ND	mg/Kg	0.0010	5.0	02/28/97	SMSVOA433
Chloroform	ND	mg/Kg	0.0010	5.0	02/28/97	SMSVOA433
1,2-Dichloroethane	ND	mg/Kg	0.0010	5.0	02/28/97	SMSVOA433
Vinyl Acetate	ND	mg/Kg	0.0050	5.0	02/28/97	SMSVOA433
cis-1,2-Dichloroethene	ND	mg/Kg	0.0010	5.0	02/28/97	SMSVOA433
2-Butanone (MEK)	ND	mg/Kg	0.0050	5.0	02/28/97	SMSVOA433
1,1,1-Trichloroethane	ND	mg/Kg	0.0010	5.0	02/28/97	SMSVOA433
Carbon Tetrachloride	ND	mg/Kg	0.0010	5.0	02/28/97	SMSVOA433
Bromodichloromethane	ND	mg/Kg	0.0010	5.0	02/28/97	SMSVOA433
1,2-Dichloropropane	ND	mg/Kg	0.0010	5.0	02/28/97	SMSVOA433
ibromomethane	ND	mg/Kg	0.0010	5.0	02/28/97	SMSVOA433
-1,3-Dichloropropene	ND	mg/Kg	0.0010	5.0	02/28/97	SMSVOA433
roethene	ND	mg/Kg	0.0010	5.0	02/28/97	SMSVOA433
dibromomethane	ND	mg/Kg	0.0010	5.0	02/28/97	SMSVOA433
Ethyl Methacrylate	ND	mg/Kg	0.0050	5.0	02/28/97	SMSVOA433
2-Chloroethylvinyl Ether	ND	mg/Kg	0.0050	5.0	02/28/97	SMSVOA433

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THIS REPORT MAY NOT BE USED IN ANY MANNER BY THE CLIENT OR ANY OTHER THIRD PARTY TO CLAIM
PRODUCT ENDORSEMENT BY THE NATIONAL VOLUNTARY LABORATORY ACCREDITATION PROGRAM.

D: 9702158-01B **Collected:** 02/20/97 13:06:00
ple ID: CA51/7-97-0220-1306 **Matrix:** SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
VOLATILES/SW846 8260						
1,1,2-Trichloroethane	ND	mg/Kg	0.0010	5.0	02/28/97	SMSVOA433
Benzene	ND	mg/Kg	0.0010	5.0	02/28/97	SMSVOA433
cis-1,3-Dichloropropene	ND	mg/Kg	0.0010	5.0	02/28/97	SMSVOA433
Bromoform	ND	mg/Kg	0.0010	5.0	02/28/97	SMSVOA433
4-Methyl-2-Pentanone (MIBK)	ND	mg/Kg	0.0050	5.0	02/28/97	SMSVOA433
Tetrachloroethene	ND	mg/Kg	0.0010	5.0	02/28/97	SMSVOA433
1,1,2,2-Tetrachloroethane	ND	mg/Kg	0.0010	5.0	02/28/97	SMSVOA433
1,2-Dibromoethane	ND	mg/Kg	0.0010	5.0	02/28/97	SMSVOA433
2-Hexanone (MBK)	ND	mg/Kg	0.0050	5.0	02/28/97	SMSVOA433
1,1,1,2-Tetrachloroethane	ND	mg/Kg	0.0010	5.0	02/28/97	SMSVOA433
Toluene	ND	mg/Kg	0.0010	5.0	02/28/97	SMSVOA433
Chlorobenzene	ND	mg/Kg	0.0010	5.0	02/28/97	SMSVOA433
Ethylbenzene	ND	mg/Kg	0.0010	5.0	02/28/97	SMSVOA433
1,4-Dichloro-2-Butene	ND	mg/Kg	0.010	5.0	02/28/97	SMSVOA433
Styrene	ND	mg/Kg	0.0010	5.0	02/28/97	SMSVOA433
P/M Xylene	ND	mg/Kg	0.0020	5.0	02/28/97	SMSVOA433
O-Xylene	ND	mg/Kg	0.0010	5.0	02/28/97	SMSVOA433
1,2,3-Trichloropropane	ND	mg/Kg	0.0010	5.0	02/28/97	SMSVOA433
Methyl-tert Butyl Ether	ND	mg/Kg	0.010	5.0	02/28/97	SMSVOA433
1,2-Dichlorobenzene	ND	mg/Kg	0.0010	5.0	02/28/97	SMSVOA433
1,3-Dichlorobenzene	ND	mg/Kg	0.0010	5.0	02/28/97	SMSVOA433
1,4-Dichlorobenzene	ND	mg/Kg	0.0010	5.0	02/28/97	SMSVOA433

D: 9702158-01C **Collected:** 02/20/97 13:06:00
le ID: CA51/7-97-0220-1306 **Matrix:** SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
SVOA(SOX) Soil/SW846 8270B	02/27/97	N/A				
n-Nitrosodimethylamine	ND	mg/Kg	1.0	1.6	02/28/97	SMSSVOA144
Pyridine	ND	mg/Kg	10	1.6	02/28/97	SMSSVOA144
Aniline	ND	mg/Kg	10	1.6	02/28/97	SMSSVOA144
bis(2-Chloroethyl) Ether	ND	mg/Kg	0.50	1.6	02/28/97	SMSSVOA144
2-Chlorophenol	ND	mg/Kg	0.50	1.6	02/28/97	SMSSVOA144
1,3-Dichlorobenzene	ND	mg/Kg	0.50	1.6	02/28/97	SMSSVOA144
1,4-Dichlorobenzene	ND	mg/Kg	0.50	1.6	02/28/97	SMSSVOA144
Phenol	ND	mg/Kg	0.50	1.6	02/28/97	SMSSVOA144
1,2-Dichlorobenzene	ND	mg/Kg	0.50	1.6	02/28/97	SMSSVOA144
Benzyl Alcohol	ND	mg/Kg	10	1.6	02/28/97	SMSSVOA144
bis(2-Chloroisopropyl) Ether	ND	mg/Kg	1.0	1.6	02/28/97	SMSSVOA144
2-Methylphenol / O-Cresol	ND	mg/Kg	0.50	1.6	02/28/97	SMSSVOA144
Hexachloroethane	ND	mg/Kg	0.50	1.6	02/28/97	SMSSVOA144
n-Nitroso-di-n-propylamine	ND	mg/Kg	0.50	1.6	02/28/97	SMSSVOA144
Nitrobenzene	ND	mg/Kg	0.50	1.6	02/28/97	SMSSVOA144
3/4 Methylphenol / M/P-Cresol	ND	mg/Kg	0.50	1.6	02/28/97	SMSSVOA144
Isophorone	ND	mg/Kg	0.50	1.6	02/28/97	SMSSVOA144
2-Nitrophenol	ND	mg/Kg	1.0	1.6	02/28/97	SMSSVOA144
bis(2-Chloroethoxy) Methane	ND	mg/Kg	0.50	1.6	02/28/97	SMSSVOA144
2,4-Dimethylphenol	ND	mg/Kg	1.0	1.6	02/28/97	SMSSVOA144
1,2,4-Trichlorobenzene	ND	mg/Kg	0.50	1.6	02/28/97	SMSSVOA144
Naphthalene	ND	mg/Kg	0.50	1.6	02/28/97	SMSSVOA144
Benzoic Acid	ND	mg/Kg	10	1.6	02/28/97	SMSSVOA144
4-Dichlorophenol	ND	mg/Kg	1.0	1.6	02/28/97	SMSSVOA144
Chloroaniline	ND	mg/Kg	10	1.6	02/28/97	SMSSVOA144
hlorobutadiene	ND	mg/Kg	0.50	1.6	02/28/97	SMSSVOA144
ylnaphthalene	ND	mg/Kg	0.50	1.6	02/28/97	SMSSVOA144
oro-3-methylphenol	ND	mg/Kg	0.50	1.6	02/28/97	SMSSVOA144
Hexachlorocyclopentadiene	ND	mg/Kg	10	1.6	02/28/97	SMSSVOA144

.D: 9702158-01C **Collected:** 02/20/97 13:06:00
Sample ID: CA51/7-97-0220-1306 **Matrix:** SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
SVOA(SOX) Soil/SW846 8270B						
2,4,6-Trichlorophenol	ND	mg/Kg	1.0	1.6	02/28/97	SMSSVOA144
2,4,5-Trichlorophenol	ND	mg/Kg	1.0	1.6	02/28/97	SMSSVOA144
2-Chloronaphthalene	ND	mg/Kg	0.50	1.6	02/28/97	SMSSVOA144
2-Nitroaniline	ND	mg/Kg	1.0	1.6	02/28/97	SMSSVOA144
Acenaphthylene	ND	mg/Kg	0.50	1.6	02/28/97	SMSSVOA144
Dimethylphthalate	ND	mg/Kg	0.50	1.6	02/28/97	SMSSVOA144
2,6-Dinitrotoluene	ND	mg/Kg	1.0	1.6	02/28/97	SMSSVOA144
Acenaphthene	ND	mg/Kg	0.50	1.6	02/28/97	SMSSVOA144
3-Nitroaniline	ND	mg/Kg	10	1.6	02/28/97	SMSSVOA144
Dibenzofuran	ND	mg/Kg	0.50	1.6	02/28/97	SMSSVOA144
2,4-Dinitrotoluene	ND	mg/Kg	2.5	1.6	02/28/97	SMSSVOA144
Fluorene	ND	mg/Kg	0.50	1.6	02/28/97	SMSSVOA144
4-Chlorophenyl-phenylether	ND	mg/Kg	0.50	1.6	02/28/97	SMSSVOA144
Diethylphthalate	ND	mg/Kg	0.50	1.6	02/28/97	SMSSVOA144
4-Nitrophenol	ND	mg/Kg	10	1.6	02/28/97	SMSSVOA144
4,6-Dinitro-2-methylphenol	ND	mg/Kg	10	1.6	02/28/97	SMSSVOA144
n-Nitrosodiphenylamine	ND	mg/Kg	0.50	1.6	02/28/97	SMSSVOA144
4-Nitroaniline	ND	mg/Kg	10	1.6	02/28/97	SMSSVOA144
4-Bromophenyl-phenylether	ND	mg/Kg	0.50	1.6	02/28/97	SMSSVOA144
Hexachlorobenzene	ND	mg/Kg	0.50	1.6	02/28/97	SMSSVOA144
Pentachlorophenol	ND	mg/Kg	10	1.6	02/28/97	SMSSVOA144
2,4-Dinitrophenol	ND	mg/Kg	10	1.6	02/28/97	SMSSVOA144
Phenanthrene	ND	mg/Kg	0.50	1.6	02/28/97	SMSSVOA144
thracene	ND	mg/Kg	0.50	1.6	02/28/97	SMSSVOA144
butylphthalate	ND	mg/Kg	5.0	1.6	02/28/97	SMSSVOA144
nthene	ND	mg/Kg	0.50	1.6	02/28/97	SMSSVOA144
	ND	mg/Kg	0.50	1.6	02/28/97	SMSSVOA144
Butylbenzylphthalate	ND	mg/Kg	0.50	1.6	02/28/97	SMSSVOA144
Benzo(a)anthracene	ND	mg/Kg	0.50	1.6	02/28/97	SMSSVOA144
Chrysene	ND	mg/Kg	0.50	1.6	02/28/97	SMSSVOA144
3,3'-Dichlorobenzidine	ND	mg/Kg	10	1.6	02/28/97	SMSSVOA144
bis(2-Ethylhexyl)phthalate	4.0	mg/Kg	2.5	1.6	02/28/97	SMSSVOA144
Di-n-octyl phthalate	ND	mg/Kg	0.50	1.6	02/28/97	SMSSVOA144
Benzo(b)+(k)fluoranthene	ND	mg/Kg	0.50	1.6	02/28/97	SMSSVOA144
1-Methylnaphthalene	ND	mg/Kg	1.0	1.6	02/28/97	SMSSVOA144
Benzo(a)pyrene	ND	mg/Kg	0.50	1.6	02/28/97	SMSSVOA144
Indeno(1,2,3-cd)pyrene	ND	mg/Kg	1.0	1.6	02/28/97	SMSSVOA144
Benzo(g,h,i)perylene	ND	mg/Kg	1.0	1.6	02/28/97	SMSSVOA144
2,3,4,6-Tetrachlorophenol	ND	mg/Kg	2.5	1.6	02/28/97	SMSSVOA144
Azobenzene	ND	mg/Kg	1.0	1.6	02/28/97	SMSSVOA144
Dibenz(a,h)anthracene	ND	mg/Kg	1.0	1.6	02/28/97	SMSSVOA144

Lab ID: 9702158-01D **Collected:** 02/20/97 13:06:00
Sample ID: CA51/7-97-0220-1306 **Matrix:** SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
% SOLIDS(TCLP XT)EPA 160.3	100.00	% (Percent)				
CVAA Hg XT/SW846 7471	02/27/97	N/A				
LEAD (FAA)/SW846 7420						
Lead, Pb	7.6	mg/Kg	5.0	1.0	02/27/97	M97140
ERCURY (CVAA)/SW846 7471						
ercury	ND	mg/Kg	0.15	1.0	02/28/97	M97156
l/ICP) DIG /SW846 3050	02/24/97	N/A				
S-ICP/SW846 6010						
Ag	ND	mg/Kg	1.0	5.0	02/25/97	M97140
num, Al	NT	mg/Kg	25			M97140
Arsenic, As	ND	mg/Kg	3.0	5.0	02/25/97	M97140

D: 9702158-01D
Sample ID: CA51/7-97-0220-1306

Collected: 02/20/97 13:06:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
METALS-ICP/SW846 6010						
Barium, Ba	295	mg/Kg	0.50	5.0	02/25/97	M97140
Beryllium, Be	NT	mg/Kg	0.50			M97140
Calcium, Ca	NT	mg/Kg	15			M97140
Cadmium, Cd	ND	mg/Kg	0.20	5.0	02/25/97	M97140
Cobalt, Co	NT	mg/Kg	0.50			M97140
Chromium, Cr	6.3	mg/Kg	1.0	5.0	02/25/97	M97140
Copper, Cu	NT	mg/Kg	0.50			M97140
Iron, Fe	NT	mg/Kg	15			M97140
Potassium, K	NT	mg/Kg	10			M97140
Magnesium, Mg	NT	mg/Kg	10			M97140
Manganese, Mn	NT	mg/Kg	0.25			M97140
Sodium, Na	NT	mg/Kg	15			M97140
Nickel, Ni	ND	mg/Kg	2.0	5.0	02/25/97	M97140
Lead, Pb	NT	mg/Kg	2.0			M97140
Antimony, Sb	NT	mg/Kg	1.5			M97140
Selenium, Se	ND	mg/Kg	2.5	5.0	02/25/97	M97140
Thallium, Tl	NT	mg/Kg	20			M97140
Vanadium, V	NT	mg/Kg	0.15			M97140
Zinc, Zn	NT	mg/Kg	5.0			M97140
TCLP (ICP) DIG/1311/3005	02/27/97	N/A				
TCLP CADMIUM(FA)/1311/7130						
Cadmium, Cd	ND	mg/L	0.0030	1.0	02/28/97	M97152
TCLP EXTRACTION/TCLP 1311	02/25/97	N/A				
LP LEAD(FAA)/1311/7420						
Pb	ND	mg/L	0.10	1.0	02/28/97	M97152
ETALS/1311/SW8466010						
c, As	ND	mg/L	0.40	1.0	02/27/97	M97152,M97155
Barium, Ba	2.0	mg/L	0.50	1.0	02/27/97	M97152,M97155
Cadmium, Cd	NT	mg/L	0.0050	1.0	02/27/97	M97152,M97155
Chromium, Cr	ND	mg/L	0.020	1.0	02/27/97	M97152,M97155
Lead, Pb	NT	mg/L	0.050	1.0	02/27/97	M97152,M97155
Mercury, Hg	ND	mg/L	0.0020	1.0	02/28/97	M97152,M97155
Selenium, Se	0.06	mg/L	0.050	1.0	02/27/97	M97152,M97155
Silver, Ag	ND	mg/L	0.040	1.0	02/27/97	M97152,M97155
TCLP(CVAA)Hg XT/SW846 7471	02/27/97	N/A				

Lab ID: 9702158-02A
Sample ID: CA51/8-97-0220-1307

Collected: 02/20/97 13:07:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
% SOLIDS(TCLP XT)EPA 160.3	100.00	% (Percent)				
Diesel Range OG Soil/M8015						
Diesel Range OG in Soil	ND	mg/Kg	50	1.0	02/27/97	SDRO016
TCLP (ICP) DIG/1311/3005	02/27/97	N/A				
TCLP CADMIUM(FA)/1311/7130						
Cadmium, Cd	ND	mg/L	0.0030	1.0	02/28/97	M97152
TCLP EXTRACTION/TCLP 1311	02/25/97	N/A				
TCLP LEAD(FAA)/1311/7420						
Lead, Pb	ND	mg/L	0.10	1.0	02/28/97	M97152
TCLP METALS/1311/SW8466010						
Arsenic, As	ND	mg/L	0.40	1.0	02/27/97	M97152,M97155
arium, Ba	1.7	mg/L	0.50	1.0	02/27/97	M97152,M97155
dmium, Cd	NT	mg/L	0.0050	1.0	02/27/97	M97152,M97155
ium, Cr	ND	mg/L	0.020	1.0	02/27/97	M97152,M97155
b	NT	mg/L	0.050	1.0	02/27/97	M97152,M97155
ury, Hg	ND	mg/L	0.0020	1.0	02/28/97	M97152,M97155
Selenium, Se	0.07	mg/L	0.050	1.0	02/27/97	M97152,M97155

D: 9702158-02A **Collected:** 02/20/97 13:07:00
Sample ID: CA51/8-97-0220-1307 **Matrix:** SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
TCLP METALS/1311/SW8466010						
Silver, Ag	ND	mg/L	0.040	1.0	02/27/97	M97152,M97155
TCLP(CVAA)Hg XT/SW846 7471	02/27/97	N/A				

Lab ID: 9702158-02B **Collected:** 02/20/97 13:07:00
Sample ID: CA51/8-97-0220-1307 **Matrix:** SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
BTEX/SW846 8020A						
Benzene	ND	mg/Kg	0.0010	5.0	02/28/97	SMSVOA433
Toluene	ND	mg/Kg	0.0010	5.0	02/28/97	SMSVOA433
Ethylbenzene	ND	mg/Kg	0.0010	5.0	02/28/97	SMSVOA433
P-&m-Xylene	ND	mg/Kg	0.0010	5.0	02/28/97	SMSVOA433
O-Xylene	ND	mg/Kg	0.0010	5.0	02/28/97	SMSVOA433

Lab ID: 9702158-03A **Collected:** 02/20/97 13:04:00
ple ID: CA51/5-97-0220-1304 **Matrix:** SOIL

/ METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
BTEX/SW846 8020A						
Benzene	ND	mg/Kg	0.0010	920	02/25/97	SMSVOA430
Toluene	ND	mg/Kg	0.0010	920	02/25/97	SMSVOA430
Ethylbenzene	ND	mg/Kg	0.0010	920	02/25/97	SMSVOA430
P-&m-Xylene	ND	mg/Kg	0.0010	920	02/25/97	SMSVOA430
O-Xylene	ND	mg/Kg	0.0010	920	02/25/97	SMSVOA430
Diesel Range OG Soil/M8015						
Diesel Range OG in Soil	7200	mg/Kg	50	50	03/03/97	SDRO016

Lab ID: 9702158-04A **Collected:** 02/20/97 13:05:00
Sample ID: CA51/6-97-0220-1305 **Matrix:** SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
BTEX/SW846 8020A						
Benzene	ND	mg/Kg	0.0010	5.0	02/25/97	SMSVOA430
Toluene	ND	mg/Kg	0.0010	5.0	02/25/97	SMSVOA430
Ethylbenzene	ND	mg/Kg	0.0010	5.0	02/25/97	SMSVOA430
P-&m-Xylene	ND	mg/Kg	0.0010	5.0	02/25/97	SMSVOA430
O-Xylene	ND	mg/Kg	0.0010	5.0	02/25/97	SMSVOA430
Diesel Range OG Soil/M8015						
Diesel Range OG in Soil	ND	mg/Kg	50	1.0	03/03/97	SDRO016

Fred L. Shore, Ph.D.
VP of Laboratory Operations

WORKORDER COMMENTS

DATE : 03/07/97
WORKORDER: 9702158

DEFINITIONS/DATA QUALIFIERS

The following are definitions, abbreviations, and data qualifiers which may have been utilized in your report:

ND = Analyte "not detected" in analysis at the sample specific detection limit.
D_F = Sample "dilution factor"
NT = Analyte "not tested" per client request.
B = Analyte was also detected in laboratory method QC blank.
E = Analyte concentration (result) is an estimated value or exceeds analysis calibration range.
LIMIT = The minimum amount of the analyte that AAL can detect utilizing the specified analysis.

Please Note: Multiply the "Limit" value (AAL's Detection Limit) by Dilution Factor (D_F) to obtain the sample specific Detection Limit.

*** Analytical results reported pertain only to the samples provided ***
*** for analysis and may not represent actual field conditions. ***
*** ***
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*** written approval of Assaigai Analytical Inc. ***

REPORT COMMENTS

*Please Note: The analysis for the BTEX was performed by EPA method 8240.

SUNAGAI ANALYTICAL LABORATORIES

Chain of Custody Record

Lab job no.: 9158 Date: 2/20/97

Page 1 of 1

7300 JEFFERSON, N.E.
ALBUQUERQUE, NEW MEXICO 87
(505) 345-8964

3332 WEDGEWOOD
EL PASO, TEXAS 79925
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1910 N. BIG SPRING
MIDLAND, TEXAS 79705
(915) 570-1116

MELQUIADES ALANIS
6411 LOCAL UNO
CIUDAD JUAREZ, CHIHUAHUA MEXICO 32320

Client: Cheyenne / LCI-2

Address: 1712 Prince St

City / State / Zip: Clovis NM 88101

Project Name / Number: DACA47-95-D-0035

Contract / Purchase Order / Quote: DAN Moore

Project Manager / Contact: Mike Landgraf

Telephone No.: (505) 763-1410

Fax No.: 505-769-0780

Samplers: (Signature)

AAL Fraction Number	Field Sample Number / Location	Date	Time	Sample Type	Type / Size of Container	Preservation Temp.	Preservation Chemical	No. of Containers	TPH 8015 MOD.	8260 VOA's	8270 Semi-VOA's	Total Metals using 1312 Extraction	TCLP Extraction	RCRA 8020		Remarks
1H-D	CA51/7-97-0220-1306	2/20/97	13:06	soil	1 4oz + 3 4oz glass			4	X		X	X	X			site confirmatory
2H,E	CA51/8-97-0220-1307	2/20/97	13:07	soil	1 4oz + 1 8oz glass			2	X					X	X	excavated material
3H	CA51/5-97-0220-1304	2/20/97	13:04	soil	1 4oz glass			1	X						X	highest correlation
4H	CA51/6-97-0220-1305	2/20/97	13:05	soil	1 4oz glass			1	X						X	1 of 10 correlation

Relinquished by:	Date	Received by:	Relinquished by:	Date	Received by:
Signature: [signature]	2/20/97	Signature: [signature]	Signature:	2/21/97	Signature: [signature]
Printed: Tracy Wheeler	Time: 3:04 PM	Printed: Sal Gonzales	Printed:	Time: 9:06	Printed:
Company: Cheyenne		Company: TNM&O Courier	Company: TNM&O		Company: AAL
Reason: shipment		Reason: Bus Shipment	Reason:		Reason:

Method of Shipment: Bus

Shipment No.:

Special Instructions:

Comments:

After analysis, samples are to be:

- ☐ Disposed of (additional fee)
- ☐ Stored (30 days max)
- ☐ Stored over 30 days (additional fee)
- ☐ Returned to customer

COURIER

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ANALYTICAL
LABORATORIES, INC.
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3332 Wedgewood, E-5 • El Paso, Texas 79925 • (915) 593-6000 • FAX (915) 593-7820

Report Generated:
April 28, 1997 16:16

CERTIFICATE OF ANALYSIS
RESULTS BY SAMPLE

SENT TO: CHEYENNE BUILDING CONTRACTORS
P.O. BOX 418
CLOVIS, NM 88101

ATTN: MIKE LANDGRAF

WORKORDER # : 9703158
WORK ID : DACA47-95-D-0035
CLIENT CODE : CHE10
DATE RECEIVED : 03/17/97

Lab ID: 9703158-01A
Sample ID: CA94/7-97-0314-1136
Collected: 03/14/97 11:36:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
Diesel Range OG Soil/M8015						
Diesel Range OG in Soil	ND	mg/Kg	50	1.0	03/26/97	SDRO18

Lab ID: 9703158-01B
Sample ID: CA94/7-97-0314-1136
Collected: 03/14/97 11:36:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
VOLATILES/SW846 8260						
Dichlorodifluoromethane	ND	mg/Kg	0.010	5.0	03/21/97	SMSVOA437
Chloromethane	ND	mg/Kg	0.0050	5.0	03/21/97	SMSVOA437
Iodomethane	ND	mg/Kg	0.0050	5.0	03/21/97	SMSVOA437
Acetone	ND	mg/Kg	0.0050	5.0	03/21/97	SMSVOA437
Bromomethane	ND	mg/Kg	0.0050	5.0	03/21/97	SMSVOA437
Vinyl Chloride	ND	mg/Kg	0.0050	5.0	03/21/97	SMSVOA437
Chloroethane	ND	mg/Kg	0.0050	5.0	03/21/97	SMSVOA437
Trichlorofluoromethane	ND	mg/Kg	0.0050	5.0	03/21/97	SMSVOA437
Freon 113	ND	mg/Kg	0.0050	5.0	03/21/97	SMSVOA437
Carbon Disulfide	ND	mg/Kg	0.0050	5.0	03/21/97	SMSVOA437
Acrolein	ND	mg/Kg	0.020	5.0	03/21/97	SMSVOA437
Methylene Chloride	0.06	mg/Kg	0.010	5.0	03/21/97	SMSVOA437
1,1-Dichloroethene	ND	mg/Kg	0.0010	5.0	03/21/97	SMSVOA437
1,1-Dichloroethane	ND	mg/Kg	0.0010	5.0	03/21/97	SMSVOA437
Acrylonitrile	ND	mg/Kg	0.020	5.0	03/21/97	SMSVOA437
trans-1,2-Dichloroethene	ND	mg/Kg	0.0010	5.0	03/21/97	SMSVOA437
Chloroform	ND	mg/Kg	0.0010	5.0	03/21/97	SMSVOA437
1,2-Dichloroethane	ND	mg/Kg	0.0010	5.0	03/21/97	SMSVOA437
Vinyl Acetate	ND	mg/Kg	0.0050	5.0	03/21/97	SMSVOA437
cis-1,2-Dichloroethene	ND	mg/Kg	0.0010	5.0	03/21/97	SMSVOA437
2-Butanone (MEK)	ND	mg/Kg	0.0050	5.0	03/21/97	SMSVOA437
1,1,1-Trichloroethane	ND	mg/Kg	0.0010	5.0	03/21/97	SMSVOA437
Carbon Tetrachloride	ND	mg/Kg	0.0010	5.0	03/21/97	SMSVOA437
Bromodichloromethane	ND	mg/Kg	0.0010	5.0	03/21/97	SMSVOA437
1,2-Dichloropropane	ND	mg/Kg	0.0010	5.0	03/21/97	SMSVOA437
Dibromomethane	ND	mg/Kg	0.0010	5.0	03/21/97	SMSVOA437
trans-1,3-Dichloropropene	ND	mg/Kg	0.0010	5.0	03/21/97	SMSVOA437
hloroethene	ND	mg/Kg	0.0010	5.0	03/21/97	SMSVOA437
rodibromomethane	ND	mg/Kg	0.0010	5.0	03/21/97	SMSVOA437
Ethyl Methacrylate	ND	mg/Kg	0.0050	5.0	03/21/97	SMSVOA437
2-Chloroethylvinyl Ether	ND	mg/Kg	0.0050	5.0	03/21/97	SMSVOA437

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ID: 9703158-01B **Collected:** 03/14/97 11:36:00
Sample ID: CA94/7-97-0314-1136 **Matrix:** SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
VOLATILES/SW846 8260						
1,1,2-Trichloroethane	ND	mg/Kg	0.0010	5.0	03/21/97	SMSVOA437
Benzene	ND	mg/Kg	0.0010	5.0	03/21/97	SMSVOA437
cis-1,3-Dichloropropene	ND	mg/Kg	0.0010	5.0	03/21/97	SMSVOA437
Bromoform	ND	mg/Kg	0.0010	5.0	03/21/97	SMSVOA437
4-Methyl-2-Pentanone (MIBK)	ND	mg/Kg	0.0050	5.0	03/21/97	SMSVOA437
Tetrachloroethene	ND	mg/Kg	0.0010	5.0	03/21/97	SMSVOA437
1,1,2,2-Tetrachloroethane	ND	mg/Kg	0.0010	5.0	03/21/97	SMSVOA437
1,2-Dibromoethane	ND	mg/Kg	0.0010	5.0	03/21/97	SMSVOA437
2-Hexanone (MBK)	ND	mg/Kg	0.0050	5.0	03/21/97	SMSVOA437
1,1,1,2-Tetrachloroethane	ND	mg/Kg	0.0010	5.0	03/21/97	SMSVOA437
Toluene	ND	mg/Kg	0.0010	5.0	03/21/97	SMSVOA437
Chlorobenzene	ND	mg/Kg	0.0010	5.0	03/21/97	SMSVOA437
Ethylbenzene	ND	mg/Kg	0.0010	5.0	03/21/97	SMSVOA437
1,4-Dichloro-2-Butene	ND	mg/Kg	0.010	5.0	03/21/97	SMSVOA437
Styrene	ND	mg/Kg	0.0010	5.0	03/21/97	SMSVOA437
P/M Xylene	ND	mg/Kg	0.0020	5.0	03/21/97	SMSVOA437
O-Xylene	ND	mg/Kg	0.0010	5.0	03/21/97	SMSVOA437
1,2,3-Trichloropropane	ND	mg/Kg	0.0010	5.0	03/21/97	SMSVOA437
Methyl-tert Butyl Ether	ND	mg/Kg	0.010	5.0	03/21/97	SMSVOA437
1,2-Dichlorobenzene	ND	mg/Kg	0.0010	5.0	03/21/97	SMSVOA437
1,3-Dichlorobenzene	ND	mg/Kg	0.0010	5.0	03/21/97	SMSVOA437
1,4-Dichlorobenzene	ND	mg/Kg	0.0010	5.0	03/21/97	SMSVOA437

ID: 9703158-01C **Collected:** 03/14/97 11:36:00
Sample ID: CA94/7-97-0314-1136 **Matrix:** SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
SVOA(SOX) Soil/SW846 8270B	03/25/97	N/A				
n-Nitrosodimethylamine	ND	mg/Kg	1.0	1.5	03/27/97	SMSSVOA146
Pyridine	ND	mg/Kg	10	1.5	03/27/97	SMSSVOA146
Aniline	ND	mg/Kg	10	1.5	03/27/97	SMSSVOA146
bis(2-Chloroethyl) Ether	ND	mg/Kg	0.50	1.5	03/27/97	SMSSVOA146
2-Chlorophenol	ND	mg/Kg	0.50	1.5	03/27/97	SMSSVOA146
1,3-Dichlorobenzene	ND	mg/Kg	0.50	1.5	03/27/97	SMSSVOA146
1,4-Dichlorobenzene	ND	mg/Kg	0.50	1.5	03/27/97	SMSSVOA146
Phenol	ND	mg/Kg	0.50	1.5	03/27/97	SMSSVOA146
1,2-Dichlorobenzene	ND	mg/Kg	0.50	1.5	03/27/97	SMSSVOA146
Benzyl Alcohol	ND	mg/Kg	10	1.5	03/27/97	SMSSVOA146
bis(2-Chloroisopropyl) Ether	ND	mg/Kg	1.0	1.5	03/27/97	SMSSVOA146
2-Methylphenol / O-Cresol	ND	mg/Kg	0.50	1.5	03/27/97	SMSSVOA146
Hexachloroethane	ND	mg/Kg	0.50	1.5	03/27/97	SMSSVOA146
n-Nitroso-di-n-propylamine	ND	mg/Kg	0.50	1.5	03/27/97	SMSSVOA146
Nitrobenzene	ND	mg/Kg	0.50	1.5	03/27/97	SMSSVOA146
3/4 Methylphenol / M/P-Cresol	ND	mg/Kg	0.50	1.5	03/27/97	SMSSVOA146
Isophorone	ND	mg/Kg	0.50	1.5	03/27/97	SMSSVOA146
2-Nitrophenol	ND	mg/Kg	1.0	1.5	03/27/97	SMSSVOA146
bis(2-Chloroethoxy) Methane	ND	mg/Kg	0.50	1.5	03/27/97	SMSSVOA146
2,4-Dimethylphenol	ND	mg/Kg	1.0	1.5	03/27/97	SMSSVOA146
1,2,4-Trichlorobenzene	ND	mg/Kg	0.50	1.5	03/27/97	SMSSVOA146
Naphthalene	ND	mg/Kg	0.50	1.5	03/27/97	SMSSVOA146
Benzoic Acid	ND	mg/Kg	10	1.5	03/27/97	SMSSVOA146
2,4-Dichlorophenol	ND	mg/Kg	1.0	1.5	03/27/97	SMSSVOA146
4-Chloroaniline	ND	mg/Kg	10	1.5	03/27/97	SMSSVOA146
achlorobutadiene	ND	mg/Kg	0.50	1.5	03/27/97	SMSSVOA146
ethylnaphthalene	ND	mg/Kg	0.50	1.5	03/27/97	SMSSVOA146
4-Chloro-3-methylphenol	ND	mg/Kg	0.50	1.5	03/27/97	SMSSVOA146
Hexachlorocyclopentadiene	ND	mg/Kg	10	1.5	03/27/97	SMSSVOA146

ID: 9703158-01C **Collected:** 03/14/97 11:36:00
Sample ID: CA94/7-97-0314-1136 **Matrix:** SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
SVOA(SOX) Soil/SW846 8270B						
2,4,6-Trichlorophenol	ND	mg/Kg	1.0	1.5	03/27/97	SMSSVOA146
2,4,5-Trichlorophenol	ND	mg/Kg	1.0	1.5	03/27/97	SMSSVOA146
2-Chloronaphthalene	ND	mg/Kg	0.50	1.5	03/27/97	SMSSVOA146
2-Nitroaniline	ND	mg/Kg	1.0	1.5	03/27/97	SMSSVOA146
Acenaphthylene	ND	mg/Kg	0.50	1.5	03/27/97	SMSSVOA146
Dimethylphthalate	ND	mg/Kg	0.50	1.5	03/27/97	SMSSVOA146
2,6-Dinitrotoluene	ND	mg/Kg	1.0	1.5	03/27/97	SMSSVOA146
Acenaphthene	ND	mg/Kg	0.50	1.5	03/27/97	SMSSVOA146
3-Nitroaniline	ND	mg/Kg	10	1.5	03/27/97	SMSSVOA146
Dibenzofuran	ND	mg/Kg	0.50	1.5	03/27/97	SMSSVOA146
2,4-Dinitrotoluene	ND	mg/Kg	2.5	1.5	03/27/97	SMSSVOA146
Fluorene	ND	mg/Kg	0.50	1.5	03/27/97	SMSSVOA146
4-Chlorophenyl-phenylether	ND	mg/Kg	0.50	1.5	03/27/97	SMSSVOA146
Diethylphthalate	ND	mg/Kg	0.50	1.5	03/27/97	SMSSVOA146
4-Nitrophenol	ND	mg/Kg	10	1.5	03/27/97	SMSSVOA146
4,6-Dinitro-2-methylphenol	ND	mg/Kg	10	1.5	03/27/97	SMSSVOA146
n-Nitrosodiphenylamine	ND	mg/Kg	0.50	1.5	03/27/97	SMSSVOA146
4-Nitroaniline	ND	mg/Kg	10	1.5	03/27/97	SMSSVOA146
4-Bromophenyl-phenylether	ND	mg/Kg	0.50	1.5	03/27/97	SMSSVOA146
Hexachlorobenzene	ND	mg/Kg	0.50	1.5	03/27/97	SMSSVOA146
Pentachlorophenol	ND	mg/Kg	10	1.5	03/27/97	SMSSVOA146
2,4-Dinitrophenol	ND	mg/Kg	10	1.5	03/27/97	SMSSVOA146
Phenanthrene	ND	mg/Kg	0.50	1.5	03/27/97	SMSSVOA146
Anthracene	ND	mg/Kg	0.50	1.5	03/27/97	SMSSVOA146
[illegible]-n-butylphthalate	ND	mg/Kg	5.0	1.5	03/27/97	SMSSVOA146
[illegible]anthene	ND	mg/Kg	0.50	1.5	03/27/97	SMSSVOA146
[illegible]ene	ND	mg/Kg	0.50	1.5	03/27/97	SMSSVOA146
Butylbenzylphthalate	ND	mg/Kg	0.50	1.5	03/27/97	SMSSVOA146
Benzo(a)anthracene	ND	mg/Kg	0.50	1.5	03/27/97	SMSSVOA146
Chrysene	ND	mg/Kg	0.50	1.5	03/27/97	SMSSVOA146
3,3'-Dichlorobenzidine	ND	mg/Kg	10	1.5	03/27/97	SMSSVOA146
bis(2-Ethylhexyl)phthalate	ND	mg/Kg	2.5	1.5	03/27/97	SMSSVOA146
Di-n-octyl phthalate	ND	mg/Kg	0.50	1.5	03/27/97	SMSSVOA146
Benzo(b)+(k)fluoranthene	ND	mg/Kg	0.50	1.5	03/27/97	SMSSVOA146
1-Methylnaphthalene	ND	mg/Kg	1.0	1.5	03/27/97	SMSSVOA146
Benzo(a)pyrene	ND	mg/Kg	0.50	1.5	03/27/97	SMSSVOA146
Indeno(1,2,3-cd)pyrene	ND	mg/Kg	1.0	1.5	03/27/97	SMSSVOA146
Benzo(g,h,i)perylene	ND	mg/Kg	1.0	1.5	03/27/97	SMSSVOA146
2,3,4,6-Tetrachlorophenol	ND	mg/Kg	2.5	1.5	03/27/97	SMSSVOA146
Azobenzene	ND	mg/Kg	1.0	1.5	03/27/97	SMSSVOA146
Dibenz(a,h)anthracene	ND	mg/Kg	1.0	1.5	03/27/97	SMSSVOA146

Lab ID: 9703158-01D **Collected:** 03/14/97 11:36:00
Sample ID: CA94/7-97-0314-1136 **Matrix:** SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
% SOLIDS(TCLP XT)EPA 160.3	100.00	% (Percent)				
CVAA Hg XT/SW846 7471	03/18/97	N/A				
MERCURY (CVAA)/SW846 7471						
Mercury	ND	mg/Kg	0.15	1.0	03/19/97	M97203
Metal(ICP) DIG /SW846 3050	03/19/97	N/A				
METALS-ICP/SW846 6010						
[illegible]ilver, Ag	ND	mg/Kg	1.0	1.0	03/20/97	M97208
[illegible]inum, Al	NT	mg/Kg	25			M97208
[illegible]nic, As	6.4	mg/Kg	3.0	1.0	03/20/97	M97208
Barium, Ba	812	mg/Kg	0.50	1.0	03/20/97	M97208
Beryllium, Be	NT	mg/Kg	0.50			M97208

ID: 9703158-01D **Collected:** 03/14/97 11:36:00
Sample ID: CA94/7-97-0314-1136 **Matrix:** SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
METALS-ICP/SW846 6010						
Calcium, Ca	NT	mg/Kg	15			M97208
Cadmium, Cd	0.29	mg/Kg	0.20	1.0	03/20/97	M97208
Cobalt, Co	NT	mg/Kg	0.50			M97208
Chromium, Cr	9.2	mg/Kg	1.0	1.0	03/20/97	M97208
Copper, Cu	NT	mg/Kg	0.50			M97208
Iron, Fe	NT	mg/Kg	15			M97208
Potassium, K	NT	mg/Kg	10			M97208
Magnesium, Mg	NT	mg/Kg	10			M97208
Manganese, Mn	NT	mg/Kg	0.25			M97208
Sodium, Na	NT	mg/Kg	15			M97208
Nickel, Ni	6.9	mg/Kg	2.0	1.0	03/20/97	M97208
Lead, Pb	2.5	mg/Kg	2.0	1.0	03/20/97	M97208
Antimony, Sb	NT	mg/Kg	1.5			M97208
Selenium, Se	ND	mg/Kg	2.5	1.0	03/20/97	M97208
Thallium, Tl	NT	mg/Kg	20			M97208
Vanadium, V	NT	mg/Kg	0.15			M97208
Zinc, Zn	NT	mg/Kg	5.0			M97208
TCLP (ICP) DIG/1311/3005	03/24/97	N/A				
TCLP EXTRACTION/TCLP 1311	03/20/97	N/A				
TCLP METALS/1311/SW8466010						
Arsenic, As	ND	mg/L	0.40	1.0	03/24/97	M97214,M97219
Barium, Ba	2.7	mg/L	0.50	1.0	03/24/97	M97214,M97219
Cadmium, Cd	ND	mg/L	0.0050	1.0	03/24/97	M97214,M97219
Chromium, Cr	ND	mg/L	0.020	1.0	03/24/97	M97214,M97219
Lead, Pb	ND	mg/L	0.050	1.0	03/24/97	M97214,M97219
Mercury, Hg	ND	mg/L	0.0020	1.0	03/26/97	M97214,M97219
Selenium, Se	ND	mg/L	0.050	1.0	03/24/97	M97214,M97219
Silver, Ag	ND	mg/L	0.040	1.0	03/24/97	M97214,M97219
TCLP(CVAA)Hg XT/SW846 7471	03/25/97	N/A				

Lab ID: 9703158-02A **Collected:** 03/14/97 11:37:00
Sample ID: CA94/8-97-0314-1137 **Matrix:** SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
% SOLIDS(TCLP XT)EPA 160.3	100.00	% (Percent)				
Diesel Range OG Soil/M8015						
Diesel Range OG in Soil	ND	mg/Kg	50	1.0	03/26/97	SDRO18
TCLP (ICP) DIG/1311/3005	03/24/97	N/A				
TCLP EXTRACTION/TCLP 1311	03/20/97	N/A				
TCLP METALS/1311/SW8466010						
Arsenic, As	ND	mg/L	0.40	1.0	03/24/97	M97214,M97219
Barium, Ba	2.0	mg/L	0.50	1.0	03/24/97	M97214,M97219
Cadmium, Cd	ND	mg/L	0.0050	1.0	03/24/97	M97214,M97219
Chromium, Cr	ND	mg/L	0.020	1.0	03/24/97	M97214,M97219
Lead, Pb	ND	mg/L	0.050	1.0	03/24/97	M97214,M97219
Mercury, Hg	ND	mg/L	0.0020	1.0	03/26/97	M97214,M97219
Selenium, Se	ND	mg/L	0.050	1.0	03/24/97	M97214,M97219
Silver, Ag	ND	mg/L	0.040	1.0	03/24/97	M97214,M97219
TCLP(CVAA)Hg XT/SW846 7471	03/25/97	N/A				

ID: 9703158-02B
Sample ID: CA94/8-97-0314-1137

Collected: 03/14/97 11:37:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
BTEX/SW846 8020A						
Benzene	ND	mg/Kg	0.0010	5.0	03/20/97	SBTXME150
Toluene	ND	mg/Kg	0.0010	5.0	03/20/97	SBTXME150
Ethylbenzene	ND	mg/Kg	0.0010	5.0	03/20/97	SBTXME150
P-&m-Xylene	ND	mg/Kg	0.0020	5.0	03/20/97	SBTXME150
O-Xylene	ND	mg/Kg	0.0010	5.0	03/20/97	SBTXME150

Lab ID: 9703158-03A
Sample ID: CA94/1-97-0314-1130

Collected: 03/14/97
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
BTEX/SW846 8020A						
Benzene	ND	mg/Kg	0.0010	5.0	03/20/97	SBTXME150
Toluene	ND	mg/Kg	0.0010	5.0	03/20/97	SBTXME150
Ethylbenzene	ND	mg/Kg	0.0010	5.0	03/20/97	SBTXME150
P-&m-Xylene	ND	mg/Kg	0.0020	5.0	03/20/97	SBTXME150
O-Xylene	ND	mg/Kg	0.0010	5.0	03/20/97	SBTXME150
Diesel Range OG Soil/M8015						
Diesel Range OG in Soil	ND	mg/Kg	50	1.0	03/26/97	SDR018

Lab ID: 9703158-04A
Sample ID: CA94/2-97-0314-1131

Collected: 03/14/97
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
BTEX/SW846 8020A						
Benzene	ND	mg/Kg	0.0010	1.0	03/20/97	SBTEX150
Toluene	ND	mg/Kg	0.0010	1.0	03/20/97	SBTEX150
Ethylbenzene	ND	mg/Kg	0.0010	1.0	03/20/97	SBTEX150
P-&m-Xylene	ND	mg/Kg	0.0020	1.0	03/20/97	SBTEX150
O-Xylene	ND	mg/Kg	0.0010	1.0	03/20/97	SBTEX150
Diesel Range OG Soil/M8015						
Diesel Range OG in Soil	ND	mg/Kg	50	1.0	03/26/97	SDR018

William P. Biava
President

WORKORDER COMMENTS

DATE : 04/28/97
WORKORDER:

DEFINITIONS/DATA QUALIFIERS

The following are definitions, abbreviations, and data qualifiers which may have been utilized in your report:

ND = Analyte "not detected" in analysis at the sample specific detection limit.
D_F = Sample "dilution factor"
NT = Analyte "not tested" per client request.
B = Analyte was also detected in laboratory method QC blank.
E = Analyte concentration (result) is an estimated value or exceeds analysis calibration range.
LIMIT = The minimum amount of the analyte that AAL can detect utilizing the specified analysis.

Please Note: Multiply the "Limit" value (AAL's Detection Limit) by Dilution Factor (D_F) to obtain the sample specific Detection Limit.

REPORT COMMENTS

ASSAIGAI ANALYTICAL LABORATORIES

Chain of Custody Record

Lab job no.: 3158 Date 3-14-97

Page 1 of 1

7300 JEFFERSON, N.E.
ALBUQUERQUE, NEW MEXICO 87109
(505) 345-8964

3332 WEDGEWOOD
EL PASO, TEXAS 79925
(915) 593-6000

1910 N. BIG SPRING
MIDLAND, TEXAS 79705
(915) 570-1116

MELQUIADES ALANIS
6411 LOCAL UNO
CIUDAD JUAREZ, CHIHUAHUA MEXICO 32320

Client LCI-2 / Cheyenne

Address 1712 S Prince St

City / State / Zip CLOVIS NM 88101

Project Name / Number DACA47-95-D-0035

Contract / Purchase Order / Quote DAN MOORE

Project Manager / Contact Mike Landgraf

Telephone No. 505-763-1410

Fax No. 505-769-0780

Samplers: (Signature)

Analysis Required

AAL FRACTION NUMBER	Field Sample Number / Location	Date	Time	Sample Type	Type / Size of Container	Preservation Temp.	Preservation Chemical	No. of Containers	8015 modified TPH	8020 BTEX	8260 VOAS	8270 semi-VOAS	600+470 using 1311 Extraction	1311 Extraction			Remarks
1HD	CA94/7-97-0314-1136	3/14/97	11:36	soil	1-4oz + 3-8oz glass			4	X		X	X	X				site confirmatory
2AB	CA94/8-97-0314-1137	3/14/97	11:37	soil	1-4oz + 1 8oz glass			2	X	X				X			extracted confirmatory
3AB	CA94/1-97-0314-1130	3/14/97		soil	1-4oz glass			1	X	X							
4AB	CA94/2-97-0314-1131	3/14/97		soil	1-4oz glass			1	X	X							

Relinquished by: Signature [signature] Printed Troy Montez Company Cheyenne Reason Shipment — Date 3/14/97 Time 2:18 PM

Received by: Signature [signature] Printed Elvin J. Chase Company MCL Reason

Relinquished by: Signature [signature] Printed Elvin J. Chase Company MCL Reason — Date 3/17/97 Time 10:30 AM

Received by: Signature [signature] Printed Company AAL Reason

Method of Shipment:

Shipment No.

Special Instructions:

Comments:

After analysis, samples are to be:

- ☐ Disposed of (additional fee)
- ☐ Stored (30 days max)
- ☐ Stored over 30 days (additional fee)
- ☐ Returned to customer

CO

ASSAIGAI
ANALYTICAL
LABORATORIES, INC.
7300 Jefferson, N.E. • Albuquerque, New Mexico 87109 • (505) 345-8964 • FAX (505) 345-7259
3332 Wedgewood, E-5 • El Paso, Texas 79925 • (915) 593-6000 • FAX (915) 593-7820

Report Generated:
April 14, 1997 11:15

CERTIFICATE OF ANALYSIS
RESULTS BY SAMPLE

SENT TO: CHEYENNE BUILDING CONTRACTORS
P.O. BOX 418
CLOVIS, NM 88101

ATTN: MIKE LANDGRAF

WORKORDER # : 9703235
WORK ID : DACA47-95-D-0035
CLIENT CODE : CHE10
DATE RECEIVED : 03/26/97

Lab ID: 9703235-01A
Sample ID: CA94/15-97-0325-1106
Collected: 03/25/97 11:06:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
Diesel Range OG Soil/M8015						
Diesel Range OG in Soil	ND	mg/Kg	50	1.0	04/03/97	SDRO019

Lab ID: 9703235-01B
Sample ID: CA94/15-97-0325-1106
Collected: 03/25/97 11:06:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
VOLATILES/SW846 8260						
Dichlorodifluoromethane	ND	mg/Kg	0.010	5.0	03/27/97	SMSVOA438
Chloromethane	ND	mg/Kg	0.0050	5.0	03/27/97	SMSVOA438
Iodomethane	ND	mg/Kg	0.0050	5.0	03/27/97	SMSVOA438
Acetone	ND	mg/Kg	0.0050	5.0	03/27/97	SMSVOA438
Bromomethane	ND	mg/Kg	0.0050	5.0	03/27/97	SMSVOA438
Vinyl Chloride	ND	mg/Kg	0.0050	5.0	03/27/97	SMSVOA438
Chloroethane	ND	mg/Kg	0.0050	5.0	03/27/97	SMSVOA438
Trichlorofluoromethane	ND	mg/Kg	0.0050	5.0	03/27/97	SMSVOA438
Freon 113	ND	mg/Kg	0.0050	5.0	03/27/97	SMSVOA438
Carbon Disulfide	ND	mg/Kg	0.0050	5.0	03/27/97	SMSVOA438
Acrolein	ND	mg/Kg	0.020	5.0	03/27/97	SMSVOA438
Methylene Chloride	ND	mg/Kg	0.010	5.0	03/27/97	SMSVOA438
1,1-Dichloroethene	ND	mg/Kg	0.0010	5.0	03/27/97	SMSVOA438
1,1-Dichloroethane	ND	mg/Kg	0.0010	5.0	03/27/97	SMSVOA438
Acrylonitrile	ND	mg/Kg	0.020	5.0	03/27/97	SMSVOA438
trans-1,2-Dichloroethene	ND	mg/Kg	0.0010	5.0	03/27/97	SMSVOA438
Chloroform	ND	mg/Kg	0.0010	5.0	03/27/97	SMSVOA438
1,2-Dichloroethane	ND	mg/Kg	0.0010	5.0	03/27/97	SMSVOA438
Vinyl Acetate	ND	mg/Kg	0.0050	5.0	03/27/97	SMSVOA438
cis-1,2-Dichloroethene	ND	mg/Kg	0.0010	5.0	03/27/97	SMSVOA438
2-Butanone (MEK)	ND	mg/Kg	0.0050	5.0	03/27/97	SMSVOA438
1,1,1-Trichloroethane	ND	mg/Kg	0.0010	5.0	03/27/97	SMSVOA438
Carbon Tetrachloride	ND	mg/Kg	0.0010	5.0	03/27/97	SMSVOA438
Bromodichloromethane	ND	mg/Kg	0.0010	5.0	03/27/97	SMSVOA438
1,2-Dichloropropane	ND	mg/Kg	0.0010	5.0	03/27/97	SMSVOA438
Dibromomethane	ND	mg/Kg	0.0010	5.0	03/27/97	SMSVOA438
trans-1,3-Dichloropropene	ND	mg/Kg	0.0010	5.0	03/27/97	SMSVOA438
chloroethene	ND	mg/Kg	0.0010	5.0	03/27/97	SMSVOA438
lorodibromomethane	ND	mg/Kg	0.0010	5.0	03/27/97	SMSVOA438
Ethyl Methacrylate	ND	mg/Kg	0.0050	5.0	03/27/97	SMSVOA438
2-Chloroethylvinyl Ether	ND	mg/Kg	0.0050	5.0	03/27/97	SMSVOA438

Member: American Council of Independent Laboratories, Inc.

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L. ID: 9703235-01B
Sample ID: CA94/15-97-0325-1106

Collected: 03/25/97 11:06:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
VOLATILES/SW846 8260						
1,1,2-Trichloroethane	ND	mg/Kg	0.0010	5.0	03/27/97	SMSVOA438
Benzene	ND	mg/Kg	0.0010	5.0	03/27/97	SMSVOA438
cis-1,3-Dichloropropene	ND	mg/Kg	0.0010	5.0	03/27/97	SMSVOA438
Bromoform	ND	mg/Kg	0.0010	5.0	03/27/97	SMSVOA438
4-Methyl-2-Pentanone (MIBK)	ND	mg/Kg	0.0050	5.0	03/27/97	SMSVOA438
Tetrachloroethene	ND	mg/Kg	0.0010	5.0	03/27/97	SMSVOA438
1,1,2,2-Tetrachloroethane	ND	mg/Kg	0.0010	5.0	03/27/97	SMSVOA438
1,2-Dibromoethane	ND	mg/Kg	0.0010	5.0	03/27/97	SMSVOA438
2-Hexanone (MBK)	ND	mg/Kg	0.0050	5.0	03/27/97	SMSVOA438
1,1,1,2-Tetrachloroethane	ND	mg/Kg	0.0010	5.0	03/27/97	SMSVOA438
Toluene	ND	mg/Kg	0.0010	5.0	03/27/97	SMSVOA438
Chlorobenzene	ND	mg/Kg	0.0010	5.0	03/27/97	SMSVOA438
Ethylbenzene	ND	mg/Kg	0.0010	5.0	03/27/97	SMSVOA438
1,4-Dichloro-2-Butene	ND	mg/Kg	0.010	5.0	03/27/97	SMSVOA438
Styrene	ND	mg/Kg	0.0010	5.0	03/27/97	SMSVOA438
P/M Xylene	ND	mg/Kg	0.0020	5.0	03/27/97	SMSVOA438
O-Xylene	ND	mg/Kg	0.0010	5.0	03/27/97	SMSVOA438
1,2,3-Trichloropropane	ND	mg/Kg	0.0010	5.0	03/27/97	SMSVOA438
Methyl-tert Butyl Ether	ND	mg/Kg	0.010	5.0	03/27/97	SMSVOA438
1,2-Dichlorobenzene	ND	mg/Kg	0.0010	5.0	03/27/97	SMSVOA438
1,3-Dichlorobenzene	ND	mg/Kg	0.0010	5.0	03/27/97	SMSVOA438
1,4-Dichlorobenzene	ND	mg/Kg	0.0010	5.0	03/27/97	SMSVOA438

L ID: 9703235-01C
Sample ID: CA94/15-97-0325-1106

Collected: 03/25/97 11:06:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
SVOA(SOX) Soil/SW846 8270B	04/07/97	N/A				
n-Nitrosodimethylamine	ND	mg/Kg	1.0	1.8	04/09/97	SMSSVOA148
Pyridine	ND	mg/Kg	10	1.8	04/09/97	SMSSVOA148
Aniline	ND	mg/Kg	10	1.8	04/09/97	SMSSVOA148
bis(2-Chloroethyl) Ether	ND	mg/Kg	0.50	1.8	04/09/97	SMSSVOA148
2-Chlorophenol	ND	mg/Kg	0.50	1.8	04/09/97	SMSSVOA148
1,3-Dichlorobenzene	ND	mg/Kg	0.50	1.8	04/09/97	SMSSVOA148
1,4-Dichlorobenzene	ND	mg/Kg	0.50	1.8	04/09/97	SMSSVOA148
Phenol	ND	mg/Kg	0.50	1.8	04/09/97	SMSSVOA148
1,2-Dichlorobenzene	ND	mg/Kg	0.50	1.8	04/09/97	SMSSVOA148
Benzyl Alcohol	ND	mg/Kg	10	1.8	04/09/97	SMSSVOA148
bis(2-Chloroisopropyl) Ether	ND	mg/Kg	1.0	1.8	04/09/97	SMSSVOA148
2-Methylphenol / O-Cresol	ND	mg/Kg	0.50	1.8	04/09/97	SMSSVOA148
Hexachloroethane	ND	mg/Kg	0.50	1.8	04/09/97	SMSSVOA148
n-Nitroso-di-n-propylamine	ND	mg/Kg	0.50	1.8	04/09/97	SMSSVOA148
Nitrobenzene	ND	mg/Kg	0.50	1.8	04/09/97	SMSSVOA148
3/4 Methylphenol / M/P-Cresol	ND	mg/Kg	0.50	1.8	04/09/97	SMSSVOA148
Isophorone	ND	mg/Kg	0.50	1.8	04/09/97	SMSSVOA148
2-Nitrophenol	ND	mg/Kg	1.0	1.8	04/09/97	SMSSVOA148
bis(2-Chloroethoxy) Methane	ND	mg/Kg	0.50	1.8	04/09/97	SMSSVOA148
2,4-Dimethylphenol	ND	mg/Kg	1.0	1.8	04/09/97	SMSSVOA148
1,2,4-Trichlorobenzene	ND	mg/Kg	0.50	1.8	04/09/97	SMSSVOA148
Naphthalene	ND	mg/Kg	0.50	1.8	04/09/97	SMSSVOA148
Benzoic Acid	ND	mg/Kg	10	1.8	04/09/97	SMSSVOA148
2,4-Dichlorophenol	ND	mg/Kg	1.0	1.8	04/09/97	SMSSVOA148
4-Chloroaniline	ND	mg/Kg	10	1.8	04/09/97	SMSSVOA148
[illegible]chlorobutadiene	ND	mg/Kg	0.50	1.8	04/09/97	SMSSVOA148
[illegible]methylnaphthalene	ND	mg/Kg	0.50	1.8	04/09/97	SMSSVOA148
4-Chloro-3-methylphenol	ND	mg/Kg	0.50	1.8	04/09/97	SMSSVOA148
Hexachlorocyclopentadiene	ND	mg/Kg	10	1.8	04/09/97	SMSSVOA148

Lab ID: 9703235-01C
Sample ID: CA94/15-97-0325-1106

Collected: 03/25/97 11:06:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
SVOA(SOX) Soil/SW846 8270B						
2,4,6-Trichlorophenol	ND	mg/Kg	1.0	1.8	04/09/97	SMSSVOA148
2,4,5-Trichlorophenol	ND	mg/Kg	1.0	1.8	04/09/97	SMSSVOA148
2-Chloronaphthalene	ND	mg/Kg	0.50	1.8	04/09/97	SMSSVOA148
2-Nitroaniline	ND	mg/Kg	1.0	1.8	04/09/97	SMSSVOA148
Acenaphthylene	ND	mg/Kg	0.50	1.8	04/09/97	SMSSVOA148
Dimethylphthalate	ND	mg/Kg	0.50	1.8	04/09/97	SMSSVOA148
2,6-Dinitrotoluene	ND	mg/Kg	1.0	1.8	04/09/97	SMSSVOA148
Acenaphthene	ND	mg/Kg	0.50	1.8	04/09/97	SMSSVOA148
3-Nitroaniline	ND	mg/Kg	10	1.8	04/09/97	SMSSVOA148
Dibenzofuran	ND	mg/Kg	0.50	1.8	04/09/97	SMSSVOA148
2,4-Dinitrotoluene	ND	mg/Kg	2.5	1.8	04/09/97	SMSSVOA148
Fluorene	ND	mg/Kg	0.50	1.8	04/09/97	SMSSVOA148
4-Chlorophenyl-phenylether	ND	mg/Kg	0.50	1.8	04/09/97	SMSSVOA148
Diethylphthalate	ND	mg/Kg	0.50	1.8	04/09/97	SMSSVOA148
4-Nitrophenol	ND	mg/Kg	10	1.8	04/09/97	SMSSVOA148
4,6-Dinitro-2-methylphenol	ND	mg/Kg	10	1.8	04/09/97	SMSSVOA148
n-Nitrosodiphenylamine	ND	mg/Kg	0.50	1.8	04/09/97	SMSSVOA148
4-Nitroaniline	ND	mg/Kg	10	1.8	04/09/97	SMSSVOA148
4-Bromophenyl-phenylether	ND	mg/Kg	0.50	1.8	04/09/97	SMSSVOA148
Hexachlorobenzene	ND	mg/Kg	0.50	1.8	04/09/97	SMSSVOA148
Pentachlorophenol	ND	mg/Kg	10	1.8	04/09/97	SMSSVOA148
2,4-Dinitrophenol	ND	mg/Kg	10	1.8	04/09/97	SMSSVOA148
Phenanthrene	ND	mg/Kg	0.50	1.8	04/09/97	SMSSVOA148
Anthracene	ND	mg/Kg	0.50	1.8	04/09/97	SMSSVOA148
Di-n-butylphthalate	ND	mg/Kg	5.0	1.8	04/09/97	SMSSVOA148
Fluoranthene	ND	mg/Kg	0.50	1.8	04/09/97	SMSSVOA148
Pyrene	ND	mg/Kg	0.50	1.8	04/09/97	SMSSVOA148
Butylbenzylphthalate	ND	mg/Kg	0.50	1.8	04/09/97	SMSSVOA148
Benzo(a)anthracene	ND	mg/Kg	0.50	1.8	04/09/97	SMSSVOA148
Chrysene	ND	mg/Kg	0.50	1.8	04/09/97	SMSSVOA148
3,3'-Dichlorobenzidine	ND	mg/Kg	10	1.8	04/09/97	SMSSVOA148
bis(2-Ethylhexyl)phthalate	ND	mg/Kg	2.5	1.8	04/09/97	SMSSVOA148
Di-n-octyl phthalate	ND	mg/Kg	0.50	1.8	04/09/97	SMSSVOA148
Benzo(b)+(k)fluoranthene	ND	mg/Kg	0.50	1.8	04/09/97	SMSSVOA148
1-Methylnaphthalene	ND	mg/Kg	1.0	1.8	04/09/97	SMSSVOA148
Benzo(a)pyrene	ND	mg/Kg	0.50	1.8	04/09/97	SMSSVOA148
Indeno(1,2,3-cd)pyrene	ND	mg/Kg	1.0	1.8	04/09/97	SMSSVOA148
Benzo(g,h,i)perylene	ND	mg/Kg	1.0	1.8	04/09/97	SMSSVOA148
2,3,4,6-Tetrachlorophenol	ND	mg/Kg	2.5	1.8	04/09/97	SMSSVOA148
Azobenzene	ND	mg/Kg	1.0	1.8	04/09/97	SMSSVOA148
Dibenz(a,h)anthracene	ND	mg/Kg	1.0	1.8	04/09/97	SMSSVOA148

Lab ID: 9703235-01D
Sample ID: CA94/15-97-0325-1106

Collected: 03/25/97 11:06:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
% SOLIDS(TCLP XT)EPA 160.3	100.00	% (Percent)				
CVAA Hg XT/SW846 7471	03/31/97	N/A				
MERCURY (CVAA)/SW846 7471						
Mercury	ND	mg/Kg	0.15	1.0	04/01/97	M97235
Metal(ICP) DIG /SW846 3050	03/31/97	N/A				
METALS-ICP/SW846 6010						
Silver, Ag	ND	mg/Kg	1.0	1.0	03/31/97	M97232
Aluminum, Al	NT	mg/Kg	25			M97232
Arsenic, As	5.6	mg/Kg	3.0	1.0	03/31/97	M97232
Barium, Ba	322	mg/Kg	0.50	1.0	03/31/97	M97232
Beryllium, Be	NT	mg/Kg	0.50			M97232

L. ID: 9703235-01D **Collected:** 03/25/97 11:06:00
Sample ID: CA94/15-97-0325-1106 **Matrix:** SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
METALS-ICP/SW846 6010						
Calcium, Ca	NT	mg/Kg	15			M97232
Cadmium, Cd	ND	mg/Kg	0.20	1.0	03/31/97	M97232
Cobalt, Co	NT	mg/Kg	0.50			M97232
Chromium, Cr	4.5	mg/Kg	1.0	1.0	03/31/97	M97232
Copper, Cu	NT	mg/Kg	0.50			M97232
Iron, Fe	NT	mg/Kg	15			M97232
Potassium, K	NT	mg/Kg	10			M97232
Magnesium, Mg	NT	mg/Kg	10			M97232
Manganese, Mn	NT	mg/Kg	0.25			M97232
Sodium, Na	NT	mg/Kg	15			M97232
Nickel, Ni	4.7	mg/Kg	2.0	1.0	03/31/97	M97232
Lead, Pb	3.7	mg/Kg	2.0	1.0	03/31/97	M97232
Antimony, Sb	NT	mg/Kg	1.5			M97232
Selenium, Se	ND	mg/Kg	2.5	1.0	03/31/97	M97232
Thallium, Tl	NT	mg/Kg	20			M97232
Vanadium, V	NT	mg/Kg	0.15			M97232
Zinc, Zn	NT	mg/Kg	5.0			M97232
TCLP (ICP) DIG/1311/3005	03/31/97	N/A				
TCLP EXTRACTION/TCLP 1311	03/26/97	N/A				
TCLP METALS/1311/SW8466010						
Arsenic, As	ND	mg/L	0.40	1.0	03/31/97	M97233,M97234
Barium, Ba	1.3	mg/L	0.50	1.0	03/31/97	M97233,M97234
Cadmium, Cd	ND	mg/L	0.0050	1.0	03/31/97	M97233,M97234
Chromium, Cr	ND	mg/L	0.020	1.0	03/31/97	M97233,M97234
Lead, Pb	ND	mg/L	0.050	1.0	03/31/97	M97233,M97234
Mercury, Hg	ND	mg/L	0.0020	1.0	04/01/97	M97233,M97234
Selenium, Se	ND	mg/L	0.050	1.0	03/31/97	M97233,M97234
Silver, Ag	ND	mg/L	0.040	1.0	03/31/97	M97233,M97234
TCLP(CVAA)Hg XT/SW846 7471	03/31/97	N/A				

Lab ID: 9703235-02A **Collected:** 03/25/97 11:07:00
Sample ID: CA94/16-97-0325-1107 **Matrix:** SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
% SOLIDS(TCLP XT)EPA 160.3	100.00	% (Percent)				
Diesel Range OG Soil/M8015						
Diesel Range OG in Soil	ND	mg/Kg	50	1.0	04/03/97	SDRO019
TCLP (ICP) DIG/1311/3005	03/31/97	N/A				
TCLP EXTRACTION/TCLP 1311	03/26/97	N/A				
TCLP METALS/1311/SW8466010						
Arsenic, As	ND	mg/L	0.40	1.0	03/31/97	M97233,M97234
Barium, Ba	1.2	mg/L	0.50	1.0	03/31/97	M97233,M97234
Cadmium, Cd	ND	mg/L	0.0050	1.0	03/31/97	M97233,M97234
Chromium, Cr	ND	mg/L	0.020	1.0	03/31/97	M97233,M97234
Lead, Pb	ND	mg/L	0.050	1.0	03/31/97	M97233,M97234
Mercury, Hg	ND	mg/L	0.0020	1.0	04/01/97	M97233,M97234
Selenium, Se	ND	mg/L	0.050	1.0	03/31/97	M97233,M97234
Silver, Ag	ND	mg/L	0.040	1.0	03/31/97	M97233,M97234
TCLP(CVAA)Hg XT/SW846 7471	03/31/97	N/A				

Lab ID: 9703235-02B **Collected:** 03/25/97 11:07:00
Sample ID: CA94/16-97-0325-1107 **Matrix:** SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
BTEX/SW846 8020A						
Benzene	ND	mg/Kg	0.0010	5.0	04/03/97	SBTXME151
Toluene	ND	mg/Kg	0.0010	5.0	04/03/97	SBTXME151
Ethylbenzene	ND	mg/Kg	0.0010	5.0	04/03/97	SBTXME151
P-&m-Xylene	ND	mg/Kg	0.0010	5.0	04/03/97	SBTXME151
O-Xylene	ND	mg/Kg	0.0010	5.0	04/03/97	SBTXME151

Lab ID: 9703235-03A **Collected:** 03/25/97 11:08:00
Sample ID: CA94/17-97-0325-1108 **Matrix:** SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
Diesel Range OG Soil/M8015						
Diesel Range OG in Soil	ND	mg/Kg	50	1.0	04/03/97	SDRO019

Lab ID: 9703235-03B **Collected:** 03/25/97 11:08:00
Sample ID: CA94/17-97-0325-1108 **Matrix:** SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
VOLATILES/SW846 8260						
Dichlorodifluoromethane	ND	mg/Kg	0.010	5.0	03/27/97	SMSVOA438
Chloromethane	ND	mg/Kg	0.0050	5.0	03/27/97	SMSVOA438
Iodomethane	ND	mg/Kg	0.0050	5.0	03/27/97	SMSVOA438
Acetone	ND	mg/Kg	0.0050	5.0	03/27/97	SMSVOA438
Bromomethane	ND	mg/Kg	0.0050	5.0	03/27/97	SMSVOA438
Vinyl Chloride	ND	mg/Kg	0.0050	5.0	03/27/97	SMSVOA438
Chloroethane	ND	mg/Kg	0.0050	5.0	03/27/97	SMSVOA438
Trichlorofluoromethane	ND	mg/Kg	0.0050	5.0	03/27/97	SMSVOA438
Freon 113	ND	mg/Kg	0.0050	5.0	03/27/97	SMSVOA438
Carbon Disulfide	ND	mg/Kg	0.0050	5.0	03/27/97	SMSVOA438
Acrolein	ND	mg/Kg	0.020	5.0	03/27/97	SMSVOA438
Methylene Chloride	ND	mg/Kg	0.010	5.0	03/27/97	SMSVOA438
1,1-Dichloroethene	ND	mg/Kg	0.0010	5.0	03/27/97	SMSVOA438
1,1-Dichloroethane	ND	mg/Kg	0.0010	5.0	03/27/97	SMSVOA438
Acrylonitrile	ND	mg/Kg	0.020	5.0	03/27/97	SMSVOA438
trans-1,2-Dichloroethene	ND	mg/Kg	0.0010	5.0	03/27/97	SMSVOA438
Chloroform	ND	mg/Kg	0.0010	5.0	03/27/97	SMSVOA438
1,2-Dichloroethane	ND	mg/Kg	0.0010	5.0	03/27/97	SMSVOA438
Vinyl Acetate	ND	mg/Kg	0.0050	5.0	03/27/97	SMSVOA438
cis-1,2-Dichloroethene	ND	mg/Kg	0.0010	5.0	03/27/97	SMSVOA438
2-Butanone (MEK)	ND	mg/Kg	0.0050	5.0	03/27/97	SMSVOA438
1,1,1-Trichloroethane	ND	mg/Kg	0.0010	5.0	03/27/97	SMSVOA438
Carbon Tetrachloride	ND	mg/Kg	0.0010	5.0	03/27/97	SMSVOA438
Bromodichloromethane	ND	mg/Kg	0.0010	5.0	03/27/97	SMSVOA438
1,2-Dichloropropane	ND	mg/Kg	0.0010	5.0	03/27/97	SMSVOA438
Dibromomethane	ND	mg/Kg	0.0010	5.0	03/27/97	SMSVOA438
trans-1,3-Dichloropropene	ND	mg/Kg	0.0010	5.0	03/27/97	SMSVOA438
Trichloroethene	ND	mg/Kg	0.0010	5.0	03/27/97	SMSVOA438
Chlorodibromomethane	ND	mg/Kg	0.0010	5.0	03/27/97	SMSVOA438
[illegible]l Methacrylate	ND	mg/Kg	0.0050	5.0	03/27/97	SMSVOA438
[illegible]loroethylvinyl Ether	ND	mg/Kg	0.0050	5.0	03/27/97	SMSVOA438
1,1,2-Trichloroethane	ND	mg/Kg	0.0010	5.0	03/27/97	SMSVOA438
Benzene	ND	mg/Kg	0.0010	5.0	03/27/97	SMSVOA438

L .D: 9703235-03B **Collected:** 03/25/97 11:08:00
Sample ID: CA94/17-97-0325-1108 **Matrix:** SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
VOLATILES/SW846 8260						
cis-1,3-Dichloropropene	ND	mg/Kg	0.0010	5.0	03/27/97	SMSVOA438
Bromoform	ND	mg/Kg	0.0010	5.0	03/27/97	SMSVOA438
4-Methyl-2-Pentanone (MIBK)	ND	mg/Kg	0.0050	5.0	03/27/97	SMSVOA438
Tetrachloroethene	ND	mg/Kg	0.0010	5.0	03/27/97	SMSVOA438
1,1,2,2-Tetrachloroethane	ND	mg/Kg	0.0010	5.0	03/27/97	SMSVOA438
1,2-Dibromoethane	ND	mg/Kg	0.0010	5.0	03/27/97	SMSVOA438
2-Hexanone (MBK)	ND	mg/Kg	0.0050	5.0	03/27/97	SMSVOA438
1,1,1,2-Tetrachloroethane	ND	mg/Kg	0.0010	5.0	03/27/97	SMSVOA438
Toluene	ND	mg/Kg	0.0010	5.0	03/27/97	SMSVOA438
Chlorobenzene	ND	mg/Kg	0.0010	5.0	03/27/97	SMSVOA438
Ethylbenzene	ND	mg/Kg	0.0010	5.0	03/27/97	SMSVOA438
1,4-Dichloro-2-Butene	ND	mg/Kg	0.010	5.0	03/27/97	SMSVOA438
Styrene	ND	mg/Kg	0.0010	5.0	03/27/97	SMSVOA438
P/M Xylene	ND	mg/Kg	0.0020	5.0	03/27/97	SMSVOA438
O-Xylene	ND	mg/Kg	0.0010	5.0	03/27/97	SMSVOA438
1,2,3-Trichloropropane	ND	mg/Kg	0.0010	5.0	03/27/97	SMSVOA438
Methyl-tert Butyl Ether	ND	mg/Kg	0.010	5.0	03/27/97	SMSVOA438
1,2-Dichlorobenzene	ND	mg/Kg	0.0010	5.0	03/27/97	SMSVOA438
1,3-Dichlorobenzene	ND	mg/Kg	0.0010	5.0	03/27/97	SMSVOA438
1,4-Dichlorobenzene	ND	mg/Kg	0.0010	5.0	03/27/97	SMSVOA438

.b ID: 9703235-03C **Collected:** 03/25/97 11:08:00
S ple ID: CA94/17-97-0325-1108 **Matrix:** SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
SVOA(SOX) Soil/SW846 8270B	04/07/97	N/A				
n-Nitrosodimethylamine	ND	mg/Kg	1.0	1.8	04/09/97	SMSSVOA148
Pyridine	ND	mg/Kg	10	1.8	04/09/97	SMSSVOA148
Aniline	ND	mg/Kg	10	1.8	04/09/97	SMSSVOA148
bis(2-Chloroethyl) Ether	ND	mg/Kg	0.50	1.8	04/09/97	SMSSVOA148
2-Chlorophenol	ND	mg/Kg	0.50	1.8	04/09/97	SMSSVOA148
1,3-Dichlorobenzene	ND	mg/Kg	0.50	1.8	04/09/97	SMSSVOA148
1,4-Dichlorobenzene	ND	mg/Kg	0.50	1.8	04/09/97	SMSSVOA148
Phenol	ND	mg/Kg	0.50	1.8	04/09/97	SMSSVOA148
1,2-Dichlorobenzene	ND	mg/Kg	0.50	1.8	04/09/97	SMSSVOA148
Benzyl Alcohol	ND	mg/Kg	10	1.8	04/09/97	SMSSVOA148
bis(2-Chloroisopropyl) Ether	ND	mg/Kg	1.0	1.8	04/09/97	SMSSVOA148
2-Methylphenol / O-Cresol	ND	mg/Kg	0.50	1.8	04/09/97	SMSSVOA148
Hexachloroethane	ND	mg/Kg	0.50	1.8	04/09/97	SMSSVOA148
n-Nitroso-di-n-propylamine	ND	mg/Kg	0.50	1.8	04/09/97	SMSSVOA148
Nitrobenzene	ND	mg/Kg	0.50	1.8	04/09/97	SMSSVOA148
3/4 Methylphenol / M/P-Cresol	ND	mg/Kg	0.50	1.8	04/09/97	SMSSVOA148
Isophorone	ND	mg/Kg	0.50	1.8	04/09/97	SMSSVOA148
2-Nitrophenol	ND	mg/Kg	1.0	1.8	04/09/97	SMSSVOA148
bis(2-Chloroethoxy) Methane	ND	mg/Kg	0.50	1.8	04/09/97	SMSSVOA148
2,4-Dimethylphenol	ND	mg/Kg	1.0	1.8	04/09/97	SMSSVOA148
1,2,4-Trichlorobenzene	ND	mg/Kg	0.50	1.8	04/09/97	SMSSVOA148
Naphthalene	ND	mg/Kg	0.50	1.8	04/09/97	SMSSVOA148
Benzoic Acid	ND	mg/Kg	10	1.8	04/09/97	SMSSVOA148
2,4-Dichlorophenol	ND	mg/Kg	1.0	1.8	04/09/97	SMSSVOA148
4-Chloroaniline	ND	mg/Kg	10	1.8	04/09/97	SMSSVOA148
Hexachlorobutadiene	ND	mg/Kg	0.50	1.8	04/09/97	SMSSVOA148
2-Methylnaphthalene	ND	mg/Kg	0.50	1.8	04/09/97	SMSSVOA148
loro-3-methylphenol	ND	mg/Kg	0.50	1.8	04/09/97	SMSSVOA148
achlorocyclopentadiene	ND	mg/Kg	10	1.8	04/09/97	SMSSVOA148
2,4,6-Trichlorophenol	ND	mg/Kg	1.0	1.8	04/09/97	SMSSVOA148
2,4,5-Trichlorophenol	ND	mg/Kg	1.0	1.8	04/09/97	SMSSVOA148

L. ID: 9703235-03C
Sample ID: CA94/17-97-0325-1108

Collected: 03/25/97 11:08:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
SVOA(SOX) Soil/SW846 8270B						
2-Chloronaphthalene	ND	mg/Kg	0.50	1.8	04/09/97	SMSSVOA148
2-Nitroaniline	ND	mg/Kg	1.0	1.8	04/09/97	SMSSVOA148
Acenaphthylene	ND	mg/Kg	0.50	1.8	04/09/97	SMSSVOA148
Dimethylphthalate	ND	mg/Kg	0.50	1.8	04/09/97	SMSSVOA148
2,6-Dinitrotoluene	ND	mg/Kg	1.0	1.8	04/09/97	SMSSVOA148
Acenaphthene	ND	mg/Kg	0.50	1.8	04/09/97	SMSSVOA148
3-Nitroaniline	ND	mg/Kg	10	1.8	04/09/97	SMSSVOA148
Dibenzofuran	ND	mg/Kg	0.50	1.8	04/09/97	SMSSVOA148
2,4-Dinitrotoluene	ND	mg/Kg	2.5	1.8	04/09/97	SMSSVOA148
Fluorene	ND	mg/Kg	0.50	1.8	04/09/97	SMSSVOA148
4-Chlorophenyl-phenylether	ND	mg/Kg	0.50	1.8	04/09/97	SMSSVOA148
Diethylphthalate	ND	mg/Kg	0.50	1.8	04/09/97	SMSSVOA148
4-Nitrophenol	ND	mg/Kg	10	1.8	04/09/97	SMSSVOA148
4,6-Dinitro-2-methylphenol	ND	mg/Kg	10	1.8	04/09/97	SMSSVOA148
n-Nitrosodiphenylamine	ND	mg/Kg	0.50	1.8	04/09/97	SMSSVOA148
4-Nitroaniline	ND	mg/Kg	10	1.8	04/09/97	SMSSVOA148
4-Bromophenyl-phenylether	ND	mg/Kg	0.50	1.8	04/09/97	SMSSVOA148
Hexachlorobenzene	ND	mg/Kg	0.50	1.8	04/09/97	SMSSVOA148
Pentachlorophenol	ND	mg/Kg	10	1.8	04/09/97	SMSSVOA148
2,4-Dinitrophenol	ND	mg/Kg	10	1.8	04/09/97	SMSSVOA148
Phenanthrene	ND	mg/Kg	0.50	1.8	04/09/97	SMSSVOA148
Anthracene	ND	mg/Kg	0.50	1.8	04/09/97	SMSSVOA148
Di-n-butylphthalate	ND	mg/Kg	5.0	1.8	04/09/97	SMSSVOA148
luoranthene	ND	mg/Kg	0.50	1.8	04/09/97	SMSSVOA148
P ene	ND	mg/Kg	0.50	1.8	04/09/97	SMSSVOA148
benzylphthalate	ND	mg/Kg	0.50	1.8	04/09/97	SMSSVOA148
Benzo(a)anthracene	ND	mg/Kg	0.50	1.8	04/09/97	SMSSVOA148
Chrysene	ND	mg/Kg	0.50	1.8	04/09/97	SMSSVOA148
3,3'-Dichlorobenzidine	ND	mg/Kg	10	1.8	04/09/97	SMSSVOA148
bis(2-Ethylhexyl)phthalate	ND	mg/Kg	2.5	1.8	04/09/97	SMSSVOA148
Di-n-octyl phthalate	ND	mg/Kg	0.50	1.8	04/09/97	SMSSVOA148
Benzo(b)+(k)fluoranthene	ND	mg/Kg	0.50	1.8	04/09/97	SMSSVOA148
1-Methylnaphthalene	ND	mg/Kg	1.0	1.8	04/09/97	SMSSVOA148
Benzo(a)pyrene	ND	mg/Kg	0.50	1.8	04/09/97	SMSSVOA148
Indeno(1,2,3-cd)pyrene	ND	mg/Kg	1.0	1.8	04/09/97	SMSSVOA148
Benzo(g,h,i)perylene	ND	mg/Kg	1.0	1.8	04/09/97	SMSSVOA148
2,3,4,6-Tetrachlorophenol	ND	mg/Kg	2.5	1.8	04/09/97	SMSSVOA148
Azobenzene	ND	mg/Kg	1.0	1.8	04/09/97	SMSSVOA148
Dibenz(a,h)anthracene	ND	mg/Kg	1.0	1.8	04/09/97	SMSSVOA148

Lab ID: 9703235-03D
Sample ID: CA94/17-97-0325-1108

Collected: 03/25/97 11:08:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
% SOLIDS(TCLP XT)EPA 160.3	100.00	% (Percent)				
CVAA Hg XT/SW846 7471	03/31/97	N/A				
MERCURY (CVAA)/SW846 7471						
Mercury	ND	mg/Kg	0.15	1.0	04/01/97	M97235
Metal(ICP) DIG /SW846 3050	03/31/97	N/A				
METALS-ICP/SW846 6010						
Silver, Ag	ND	mg/Kg	1.0	1.0	03/31/97	M97232
Aluminum, Al	NT	mg/Kg	25			M97232
Arsenic, As	4.6	mg/Kg	3.0	1.0	03/31/97	M97232
um, Ba	205	mg/Kg	0.50	1.0	03/31/97	M97232
yllium, Be	NT	mg/Kg	0.50			M97232
Calcium, Ca	NT	mg/Kg	15			M97232
Cadmium, Cd	ND	mg/Kg	0.20	1.0	03/31/97	M97232

L. .D: 9703235-03D
Sample ID: CA94/17-97-0325-1108

Collected: 03/25/97 11:08:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
METALS-ICP/SW846 6010						
Cobalt, Co	NT	mg/Kg	0.50			M97232
Chromium, Cr	4.6	mg/Kg	1.0	1.0	03/31/97	M97232
Copper, Cu	NT	mg/Kg	0.50			M97232
Iron, Fe	NT	mg/Kg	15			M97232
Potassium, K	NT	mg/Kg	10			M97232
Magnesium, Mg	NT	mg/Kg	10			M97232
Manganese, Mn	NT	mg/Kg	0.25			M97232
Sodium, Na	NT	mg/Kg	15			M97232
Nickel, Ni	5.0	mg/Kg	2.0	1.0	03/31/97	M97232
Lead, Pb	2.2	mg/Kg	2.0	1.0	03/31/97	M97232
Antimony, Sb	NT	mg/Kg	1.5			M97232
Selenium, Se	ND	mg/Kg	2.5	1.0	03/31/97	M97232
Thallium, Tl	NT	mg/Kg	20			M97232
Vanadium, V	NT	mg/Kg	0.15			M97232
Zinc, Zn	NT	mg/Kg	5.0			M97232
TCLP (ICP) DIG/1311/3005	03/31/97	N/A				
TCLP EXTRACTION/TCLP 1311	03/26/97	N/A				
TCLP METALS/1311/SW8466010						
Arsenic, As	ND	mg/L	0.40	1.0	03/31/97	M97233,M97234
Barium, Ba	1.3	mg/L	0.50	1.0	03/31/97	M97233,M97234
Cadmium, Cd	ND	mg/L	0.0050	1.0	03/31/97	M97233,M97234
Chromium, Cr	ND	mg/L	0.020	1.0	03/31/97	M97233,M97234
Lead, Pb	ND	mg/L	0.050	1.0	03/31/97	M97233,M97234
Mercury, Hg	ND	mg/L	0.0020	1.0	04/01/97	M97233,M97234
Selenium, Se	ND	mg/L	0.050	1.0	03/31/97	M97233,M97234
Silver, Ag	ND	mg/L	0.040	1.0	03/31/97	M97233,M97234
TCLP(CVAA)Hg XT/SW846 7471	03/31/97	N/A				

Lab ID: 9703235-04A
Sample ID: CAOWS/2-97-0325-1109

Collected: 03/25/97 11:09:00
Matrix: SOLID

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
% SOLIDS(TCLP XT)EPA 160.3	100.00	% (Percent)				
TCLP (ICP) DIG/1311/3005	03/31/97	N/A				
TCLP EXTRACTION/TCLP 1311	03/26/97	N/A				
TCLP METALS/1311/SW8466010						
Arsenic, As	ND	mg/L	0.40	1.0	03/31/97	M97233,M97234
Barium, Ba	0.5	mg/L	0.50	1.0	03/31/97	M97233,M97234
Cadmium, Cd	ND	mg/L	0.0050	1.0	03/31/97	M97233,M97234
Chromium, Cr	ND	mg/L	0.020	1.0	03/31/97	M97233,M97234
Lead, Pb	ND	mg/L	0.050	1.0	03/31/97	M97233,M97234
Mercury, Hg	ND	mg/L	0.0020	1.0	04/01/97	M97233,M97234
Selenium, Se	ND	mg/L	0.050	1.0	03/31/97	M97233,M97234
Silver, Ag	ND	mg/L	0.040	1.0	03/31/97	M97233,M97234
TCLP(CVAA)Hg XT/SW846 7471	03/31/97	N/A				

Lab ID: 9703235-04B
Sample ID: CAOWS/2-97-0325-1109

Collected: 03/25/97 11:09:00
Matrix: SOLID

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
TCLP ZHE / TCLP 1311	03/26/97	N/A				

L ID: 9703235-04B **Collected:** 03/25/97 11:09:00
Sample ID: CAOWS/2-97-0325-1109 **Matrix:** SOLID

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
ZHE/VOA/METHOD 1311/8240B						
Vinyl Chloride	ND	mg/L	0.0050	5.0	04/02/97	TVOA281
1,1-Dichloroethene	ND	mg/L	0.0010	5.0	04/02/97	TVOA281
Chloroform	ND	mg/L	0.0010	5.0	04/02/97	TVOA281
1,2-Dichloroethane	ND	mg/L	0.0010	5.0	04/02/97	TVOA281
2-Butanone (MEK)	ND	mg/L	0.0050	5.0	04/02/97	TVOA281
Carbon Tetrachloride	ND	mg/L	0.0010	5.0	04/02/97	TVOA281
Trichloroethene	ND	mg/L	0.0010	5.0	04/02/97	TVOA281
Benzene	ND	mg/L	0.0010	5.0	04/02/97	TVOA281
Tetrachloroethene	ND	mg/L	0.0010	5.0	04/02/97	TVOA281
Chlorobenzene	ND	mg/L	0.0010	5.0	04/02/97	TVOA281

Lab ID: 9703235-04C **Collected:** 03/25/97 11:09:00
Sample ID: CAOWS/2-97-0325-1109 **Matrix:** SOLID

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
TCLP SV/METHOD 1311/8270B						
1,4-Dichlorobenzene	ND	mg/L	0.0010	1.7	04/01/97	TSVOA189
2-Methylphenol / O-Cresol	0.0068	mg/L	0.0010	1.7	04/01/97	TSVOA189
3/4-Methylphenol / M/P-Cresol	0.0023	mg/L	0.0010	1.7	04/01/97	TSVOA189
[illegible]chloroethane	ND	mg/L	0.0010	1.7	04/01/97	TSVOA189
[illegible]benzene	ND	mg/L	0.0010	1.7	04/01/97	TSVOA189
Hexachlorobutadiene	ND	mg/L	0.0010	1.7	04/01/97	TSVOA189
2,4,6-Trichlorophenol	ND	mg/L	0.010	1.7	04/01/97	TSVOA189
2,4,5-Trichlorophenol	ND	mg/L	0.010	1.7	04/01/97	TSVOA189
2,4-Dinitrotoluene	ND	mg/L	0.010	1.7	04/01/97	TSVOA189
Hexachlorobenzene	ND	mg/L	0.0010	1.7	04/01/97	TSVOA189
Pentachlorophenol	ND	mg/L	0.020	1.7	04/01/97	TSVOA189
Pyridine	ND	mg/L	0.010	1.7	04/01/97	TSVOA189
TCLP SVOA XT/1311/3520	03/27/97	N/A				

Lab ID: 9703235-04D **Collected:** 03/25/97 11:09:00
Sample ID: CAOWS/2-97-0325-1109 **Matrix:** SOLID

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
TCLP HERB XT/SM 509B	04/02/97	N/A				
TCLP HERBICIDES/SM509B						
2,4-D	ND	mg/L	0.00010	1.1	04/07/97	THERB047
2,4,5-TP	ND	mg/L	0.00010	1.1	04/07/97	THERB047
2,4,5-T	NT	mg/L	0.00010			THERB047
TCLP PEST XT/1311/3520	04/01/97	N/A				
TCLP PESTICIDES/1311/8080A						
gamma-BHC (lindane)	ND	mg/L	0.00010	1.1	04/07/97	TPEST053
Chlordane	ND	mg/L	0.00010	1.1	04/07/97	TPEST053
Endrin	ND	mg/L	0.00010	1.1	04/07/97	TPEST053
Heptachlor	ND	mg/L	0.00010	1.1	04/07/97	TPEST053
Heptachlor Epoxide	ND	mg/L	0.00010	1.1	04/07/97	TPEST053
Methoxychlor	ND	mg/L	0.00010	1.1	04/07/97	TPEST053
[illegible]xaphene	ND	mg/L	0.00010	1.1	04/07/97	TPEST053

L. .D: 9703235-05A
Sample ID: CA94/10-97-0325-1101

Collected: 03/25/97 11:01:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
BTEX/SW846 8020A						
Benzene	ND	mg/Kg	0.0010	5.0	04/03/97	SBTXME151
Toluene	ND	mg/Kg	0.0010	5.0	04/03/97	SBTXME151
Ethylbenzene	ND	mg/Kg	0.0010	5.0	04/03/97	SBTXME151
P-&m-Xylene	ND	mg/Kg	0.0010	5.0	04/03/97	SBTXME151
O-Xylene	ND	mg/Kg	0.0010	5.0	04/03/97	SBTXME151
Diesel Range OG Soil/M8015						
Diesel Range OG in Soil	ND	mg/Kg	50	1.0	04/03/97	SDRO019

Fred L. Shore, Ph.D.
VP of Laboratory Operations

WORKORDER COMMENTS

DATE : 04/14/97
WORKORDER:

DEFINITIONS/DATA QUALIFIERS

The following are definitions, abbreviations, and data qualifiers which may have been utilized in your report:

ND = Analyte "not detected" in analysis at the sample specific detection limit.
D_F = Sample "dilution factor"
NT = Analyte "not tested" per client request.
B = Analyte was also detected in laboratory method QC blank.
E = Analyte concentration (result) is an estimated value or exceeds analysis calibration range.
LIMIT = The minimum amount of the analyte that AAL can detect utilizing the specified analysis.

Please Note: Multiply the "Limit" value (AAL's Detection Limit) by Dilution Factor (D_F) to obtain the sample specific Detection Limit.

*** Analytical results reported pertain only to the samples provided ***
*** for analysis and may not represent actual field conditions. ***
*** ***
*** This report is not to be reproduced except in full, without the ***
*** written approval of Assaigai Analytical Inc. ***

REPORT COMMENTS

ASSAIGAI ANALYTICAL LABORATORIES

Chain of Custody Record

Lab job no.: 3235 Date: 3-25-97

Page 1 of 1

7300 JEFFERSON, N.E.
ALBUQUERQUE, NEW MEXICO 87109
(505) 345-8964

3332 WEDGEWOOD
EL PASO, TEXAS 79925
(915) 593-6000

1910 N. BIG SPRING
MIDLAND, TEXAS 79705
(915) 570-1116

MELQUIADES ALANIS
6411 LOCAL UNO
CIUDAD JUAREZ, CHIHUAHUA MEXICO 32320

Client: Cheyenne / LCI-2, INC

Address: 1712 S Prince St

City / State / Zip: Clovis NM 88101

Project Name / Number: DACA47-95-D-0035

Contract / Purchase Order / Quote: DAN MOORE

Project Manager / Contact: Mike Landgraf

Telephone No.: 505-763-1410

Fax No.: 505-769-0780

Samplers: (Signature)

Analysis Required

AAL Fraction Number	Field Sample Number / Location	Date	Time	Sample Type	Type / Size of Container	Preservation Temp.	Preservation Chemical	No. of Containers	8015 TPH/MOD	8260 VOAs	8270 Semi-VOAs	6010 & 7470 Leaching	8021 BTEX	5030 BTEX	1311 Extraction	Ext. TCLP Metals		Remarks
1A-D	CA94/15-97-0325-1106	3/25/97	11:06	soil	1-4oz + 3-8oz glass			4	X	X	X	X						site confirmatory
2A,B	CA94/16-97-0325-1107	3/25/97	11:07	soil	1-4oz + 1-8oz glass			2	X				X	X				excavated confirmatory
3A-D	CA94/17-97-0325-1108	3/25/97	11:08	soil	1-4oz + 3-8oz glass			4	X	X	X	X						site QC
4A-D	CA095/2-97-0325-1109	3/25/97	11:09	concrete	4-8oz glass			4							X			Concrete waste 2nd set
5A	CA94/10-97-0325-1101	3/25/97	11:01	soil	1-4oz glass			1	X				X					correlation sample

Relinquished by:	Date	Received by:	Relinquished by:	Date	Received by:
Signature: [signature]	3/25/97	Signature: [signature]	Signature:	3/26/97	Signature: [signature]
Printed: Troy Moreler	Time: 2130	Printed: Sol Garcia	Printed:	Time: 917	Printed:
Company: Cheyenne		Company: Tanner Co	Company: Greenhound		Company: AAL
Reason: shipment		Reason: Bus Pkg Exp	Reason:		Reason:

Method of Shipment: Bus

Shipment No.:

Special Instructions:

Comments:

After analysis, samples are to be:

- ☐ Disposed of (additional fee)
- ☐ Stored (30 days max)
- ☐ Stored over 30 days (additional fee)
- ☐ Returned to customer

COURI