

City and County of
San Francisco

Report of Soil Remedial Activities
at Sunol [REDACTED]
Alameda County, California

PREPARED FOR:

City and County of San Francisco
Department of Public Works
Bureau of Construction Management

AUGUST 1995

PREPARED BY:

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Camp Dresser & McKee Inc.

environmental
services

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August 25, 1995

Mr. Ronald Krzyzanowski
Environmental Protection Coordinator
City and County of San Francisco
Department of Public Works
1680 Mission Street
San Francisco, California 94103

Subject: *Soil Remedial Activities Report*
Sunol Pump Station, Alameda County

Dear Mr. Krzyzanowski:

Camp Dresser & McKee Inc. (CDM) is pleased to present this report for the removal of soil impacted with petroleum hydrocarbons at the Sunol Pump Station in the City of Sunol, California. The areas of excavation was based on the findings of the underground storage tank (UST) removal activities performed in November 1993. The removal and disposal of the impacted soil, and the backfilling, compaction and paving of the excavation were performed in July and August 1995 at the direction of the City and County of San Francisco.

Confirmatory soil samples collected from the sidewalls and bottom of the excavation showed that the excavation was effective in removing hydrocarbon impacted soils to levels below 100 milligram/kilogram (mg/kg) except in one location where petroleum hydrocarbons had migrated beneath the pump station building foundation at a concentration of 120 mg/kg. A total of 170 tons of impacted soil was disposed of at Vasco Road Landfill in Livermore.

If you have any questions concerning the attached report, please call.

Very truly yours,

CAMP DRESSER & MCKEE INC.

Hoa Trinh
Staff Engineer

Ben Swann, R.G.
Project Manager

Enclosure

cc: Paul Mazza, San Francisco Water Department

rept/sanfran/sunoips/letter

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Section 1 Introduction and Background

1.1 Introduction

This report presents the results of the soil remedial activities performed at the former underground storage tank (UST) locations at the Sunol Pump Station at 505 Panoma Way in Sunol, California (see Figure 1). The subject work was undertaken at the request of the City and County of San Francisco Water Department (Water Department) and approved by the Alameda County Environmental Health Care Services Agency (County).

The remediation activities were conducted from July 27 through August 23, 1995, consisting of excavation of approximately 65 cubic yards of soil of which approximately 55 cubic yards was impacted with petroleum hydrocarbons. Soil samples were collected and analyzed in the field for real-time data to guide and terminate soil excavation. Confirmatory soil samples were also collected and analyzed at a fixed-based laboratory. All contaminated soil from the UST and remedial excavations was hauled and disposed of at Vasco Road Landfill.

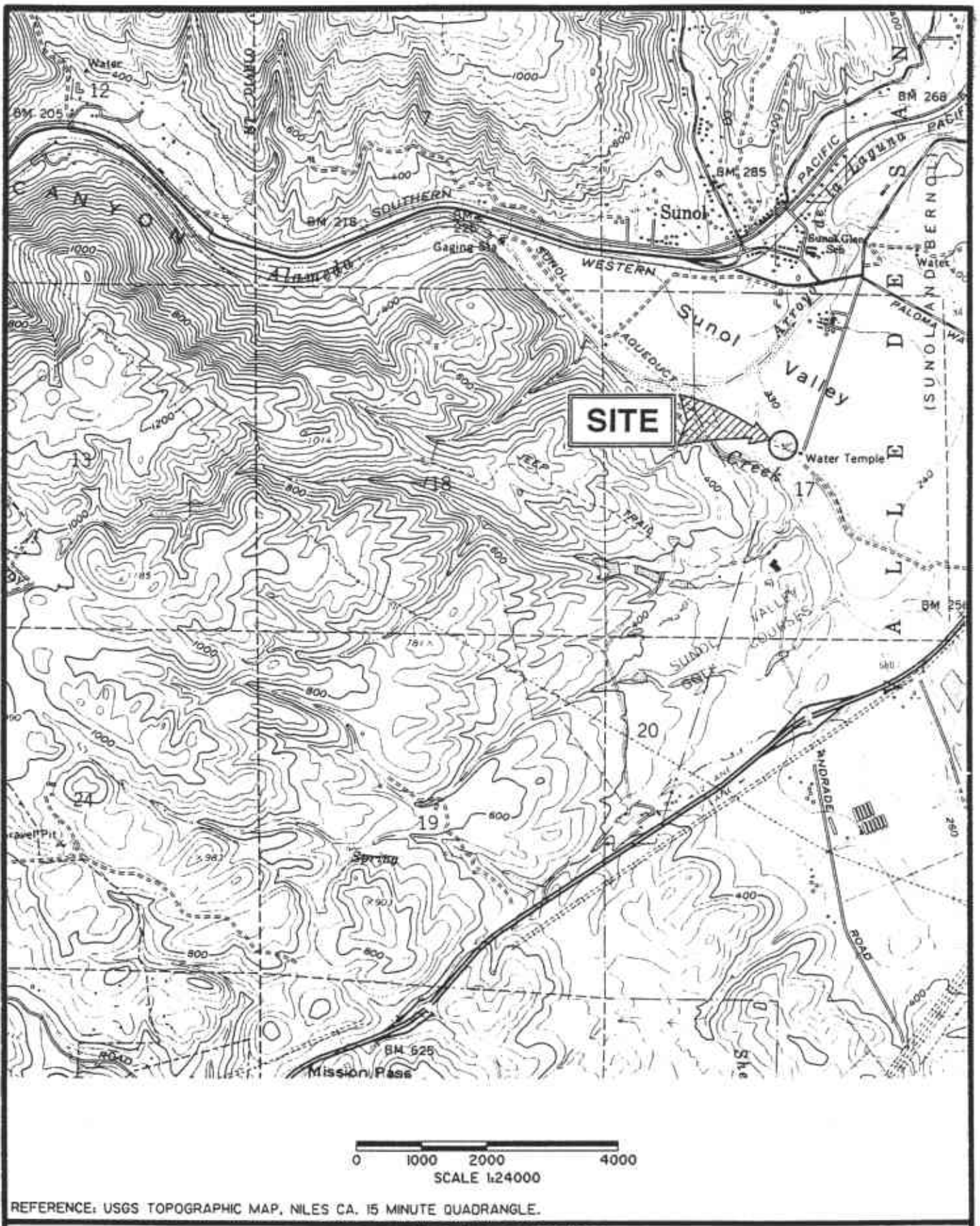
1.2 Site Location and Physiography

The subject site is located approximately 1 mile west of the 680 Freeway and one half mile south of the city of Sunol on the southern side of the Sunol Valley (see Figure 1). The site is bounded on the south by Alameda Creek which flows in a channel elevation of approximately 15 feet below the site grade. Located 200 feet east of the site is the historic Water Temple built on the City of San Francisco aqueduct.

Presently, the Sunol Pump Station consists of a single pump house building housing diesel operated high flow water pumps for the aqueduct. The diesel and oil underground storage tanks (USTs) serving the pumps have been removed from the ground and the excavation has been backfilled and asphalted to match existing grade. Stockpiles on-site will be loaded, transported and disposed at a landfill pending waste acceptance.

1.3 Background

On June 25, 1993, six soil borings were drilled at the Sunol Pump Station to evaluate the soil conditions around the three USTs. Soil borings were drilled to a depth of 20 feet where groundwater was encountered. All soil borings appeared to be free of hydrocarbon constituents with the exception of soil boring BH-4, drilled in the middle of the tank area, and boring BH-6, drilled adjacent to the waste lube oil tank (see Figure 2). Analytical results of the 15-



REFERENCE: USGS TOPOGRAPHIC MAP, NILES CA. 15 MINUTE QUADRANGLE.

SUNOL PUMPING STATION
 SITE LOCATION MAP

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 environmental engineers, scientists,
 planners, & management consultants

Figure No. 1

foot soil sample from boring BH-4 exhibited 410 milligram/kilogram (mg/kg) of oil and 90 mg/kg of diesel. Oil constituents were also detected in the 15-foot sample collected from boring BH-6 at a concentration of 60 mg/kg. The *Report of Soil Boring Assessments*, dated August 1993, was prepared by CDM.

On November 8 through November 16, 1993, three USTs and associated subsurface piping were removed. Minor petroleum hydrocarbons impacted soil was identified beneath the lube oil tank and in the side walls of the diesel excavation. During the course of the tank removal, approximately 125 cubic yards of soil was excavated of which approximately 75 cubic yards was impacted with petroleum hydrocarbons. Clean and contaminated soil were separated and stockpiled on-site. The *Underground Storage Tank Removal Report*, dated March 1994, was prepared by CDM.

Section 2 Remedial Activities

2.1 Soil Excavation Activities

On July 27 and August 7, 1995, Bay Area Tank & Marine (BATM) used an extended backhoe to excavate approximately 65 cubic yards of soil of which approximately 55 cubic yards was impacted with petroleum hydrocarbons. The areas of excavation, performed in two phases, was based on the findings of the UST removal activities performed in November 1993. The main excavation was concentrated in the area between the former oil USTs and diesel UST (see Figure 2). Other areas of excavation included the soil beneath the former lube oil UST and the side walls of the diesel UST excavation.

A portable infrared analyzer (IR) was used to analyze 18 soil samples for Total Recoverable Petroleum Hydrocarbons (TRPH) in the course of the excavation. The soil sample results were used to guide and terminate soil removal when petroleum hydrocarbon levels were consistently detected at a concentration of 100 milligram/kilogram (mg/kg) or less. The soil clean-up level was discussed in the work plan and approved by the County. For field IR protocols and sample data refer to Appendix A.

On July 27, 1995, approximately 60 cubic yards of soil was excavated. Soil impacted with petroleum hydrocarbons was detected after excavating approximately 10 cubic yards of clean soil. An area of impacted soil was observed in the main excavation from approximately 8 to 14 feet below grade. Field IR testing detected a TRPH concentration of 635 mg/kg in soil sample S-8-23CY collected from the area (see Table 1). Excavation activities were terminated in the main excavation at approximately 16 feet below grade when soil samples S-10-45CY and S-11-50CY were detected below 100 mg/kg by field IR testing.

Approximately 15 cubic yards of impacted soil was excavated under the former lube oil tank before terminating at 8 feet below grade based on IR testing results. All the soil samples collected in the side walls of the diesel tank excavation were non-detect (ND) for TRPH.

Five soil samples from the clean and contaminated stockpiles were also collected and tested with the IR. TRPH concentrations up to 123 mg/kg were detected in samples collected from the contaminated stockpile which was covered with visqueen and located west of the main building. TRPH concentrations were non-detect in the soil samples from the clean stockpiles located north of the main building (see Figure 2 and Table 1). Newly excavated clean and petroleum hydrocarbon impacted soils were stockpiled separately on plastic sheeting upon the pavement.

excavation
guided by PIB
in field until
< 100 ppm
noted -

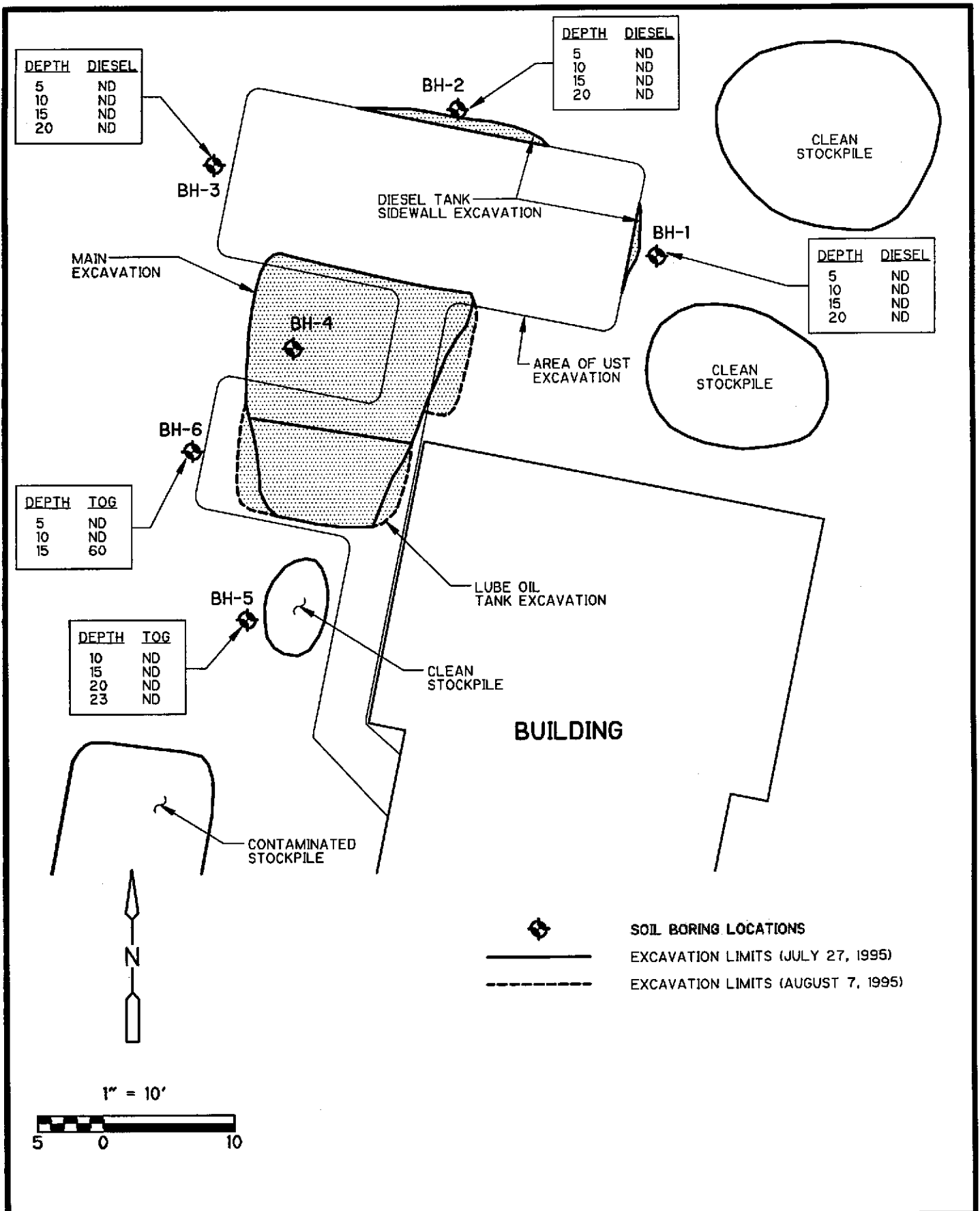
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SUNOL PUMPING STATION

SITE PLAN

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Figure 2

Table 1
Field IR Analysis
Soil Sampling Location and Results

*Screening
Samples*

Sample Number	Sampling Location	PH (mg/kg)
S-1-4CY	main excavation	ND
S-2-10CY	main excavation	ND
S-3-C1	clean stockpile, west of building	ND
S-4-PH1	contaminated stockpile, west of building	123
S-5-20CY	main excavation	141
S-6-PH2	contaminated stockpile, west of building	100
S-7-PH3	clean stockpile north of building	ND
S-8-23CY	main excavation	55
S-9-PH4	clean stockpile north of building	ND
S-10-45CY	main excavation	71
S-11-45CY	main excavation	62
S-12-50CY	lube oil UST excavation	50
S-13-60CY	lube oil UST excavation	ND
S-14-SW1	diesel UST excavation, side wall east of BH-2	ND
S-15-SW2	diesel UST excavation, side wall west BH-2	ND
S-16-SW3	diesel UST excavation, side wall near BH-1	ND
S-17-SW4	lube oil UST excavation, south side wall	ND
S-18-SW5	main excavation, west side wall	ND

CY: Cubic yards removed at time of soil sample collection
 Main Excavation: Area between the former diesel and oil USTs
 C: Soil sample collected from clean stockpiles on-site
 PH: Soil sample collected from petroleum hydrocarbons impacted stockpile on-site
 SW: Soil sample collected from excavation side wall
 ND: Not detected above 50 mg/kg

On August 7, 1995, BATM remobilized on-site to perform additional excavation in the areas that were still impacted with petroleum hydrocarbons above the clean-up level of 100 mg/kg (discussed in Section 2.2).

Approximately 3 cubic yards of soil was removed from the east side of the main excavation, and approximately 2 cubic yard of soil was removed from the east and west side walls of the lube oil tank excavation (see Figure 2). The excavation of the east side wall was terminated as not to undermine the pump station building foundation.

- 12 confirmation
Samples

2.2 Confirmatory Soil Sampling and Analysis

On July 27, 1995, based on the recommendations of the County, twelve confirmatory soil samples were collected in the newly excavated sidewalls and bottom for chemical analysis (see Figure 3 for soil sample location). Twelve discreet soil samples were also collected from the contaminated stockpile to fulfill landfill disposal requirements. The soil sample analysis varied dependant upon the sampling location as follows:

- Main excavation soil samples - Total petroleum hydrocarbons as diesel (TPH-D) and Benzene, toluene, ethylbenzene, and total xylene (BTEX)
- Diesel UST soil samples - TPH-D and BTEX
- Lube Oil UST - TRPH, BTEX and polynuclear aromatics (PNAs)
- Contaminated stockpile - TPH-D, BTEX, TRPH, BTEX, PNAs, volatile organic compounds (VOCs) and 17 Metals

Results of the analysis showed that TPH-D was detected in the east side wall sample of the main excavation at a concentration of 3,200 mg/kg. TRPH was detected in the east and west side wall samples of the lube oil tank excavation at concentrations of 7,000 mg/kg and 6,900 mg/kg, respectively. All other confirmatory soil samples were ND or below the clean-up level of 100 mg/kg (see Tables 2 and 3). E-1-S E-2-S W-2-S

In the soil samples collected from the stockpile and composited in the laboratory, TPH-D was detected at concentrations of 50 and 140 mg/kg, TRPH was detected at concentrations of 200 and 290 mg/kg. PNAs, VOCs and BTEX compounds were all ND. All contaminated soil was accepted at Vasco Road, a class III landfill in Livermore.

On August 7, 1995, three side wall soil samples were collected after the second phase of excavation. Results of the soil sampling after the second phase of excavation was successful in removing all samples above the clean-up level except for the east side wall of the lube oil UST where a single soil sample exhibited a TRPH concentration of 120 mg/kg (see Figure 3). All analytical reports and chain-of-custody records are enclosed in Appendix B.

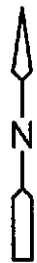
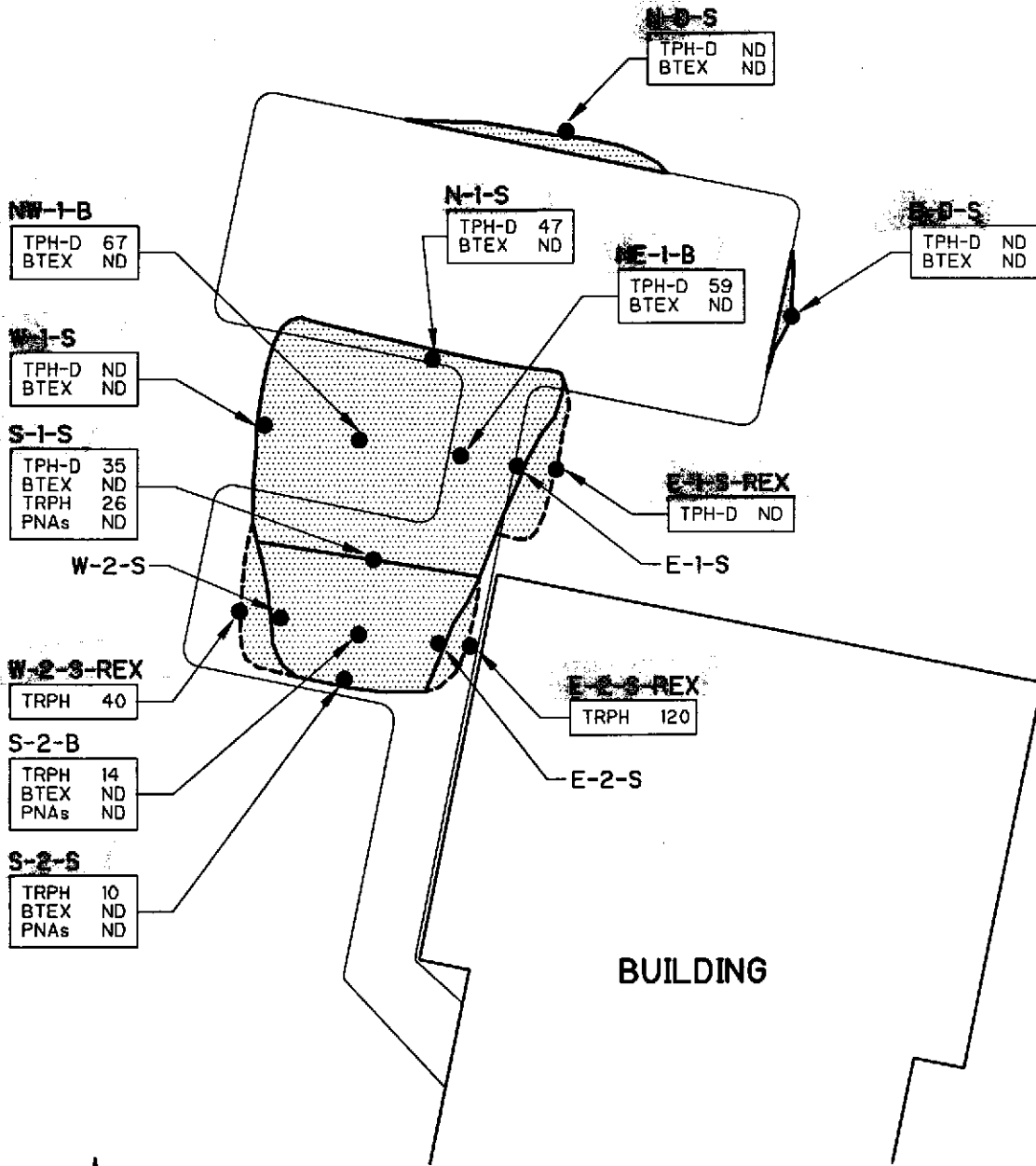
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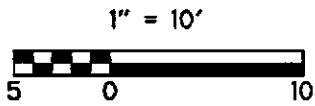
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final samples



- CONFIRMATORY SOIL SAMPLING LOCATION
 - EXCAVATION LIMITS (JULY 27, 1995)
 - - - EXCAVATION LIMITS (AUGUST 7, 1995)
 - TPH-D TOTAL PETROLEUM HYDROCARBON AS DIESEL
 - BTEX BENZENE, TOLUENE, ETHYLBENZENE, AND TOTAL XYLENE
 - TRPH TOTAL RECOVERABLE PETROLEUM HYDROCARBONS
 - PNA's POLYNUCLEAR AROMATICS HYDROCARBONS
- ALL CONCENTRATIONS IN MILLIGRAMS/KILOGRAMS (MG/KG)

SUNOL PUMPING STATION

SOIL SAMPLE LOCATION & RESULT MAP

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Figure 3

Table 2
Laboratory Analytical Results
Diesel Tank and Main Excavation Samples

Sample #	Test Constituents (mg/kg)				
	TPH-diesel	Benzene	Toluene	Ethylbenzene	Xylene
N-D-S	ND	ND	ND	ND	ND
ED-S	ND	ND	ND	ND	ND
N-1-S	47	ND	ND	ND	ND
W-1-S	ND	ND	ND	ND	ND
NW-1-B	67	ND	ND	ND	ND
NE-1-B	59	ND	ND	ND	ND
E-1-S	3,200	ND	ND	0.026	0.064
E-1-S-REX	ND	NA	NA	NA	NA
S-1-S	35	ND	ND	ND	ND

Table 3
Laboratory Analytical Results
Lube Oil Tank Excavation Samples

[Symbol] = final sample

Sample #	Test Constituents (mg/kg)		
	TRPH	BTEX	PNAs
S-1-S	26	ND	ND
W-2-S	6,900	ND	Phenanthrene = 1.2 Anthracene = 0.5 Flouranthrene = 3.8 Pyrene = 3.3 Benzo(a)anthracene = 1.8 Chrysene = 2.3 Benzo(b)fluoranthene = 1.0 Benzo(k)fluoranthene = 1.0 benzo(a)pyrene = 1.1
W-2-S-REX	40	NA	NA
S-2-B	14	ND	ND
E-2-S	7,000	ND	ND
E-2-S-REX	120	NA	NA
S-2-S	10	ND	ND

Method detection limit for TPH-diesel = 1.0 mg/kg
 Method detection limit for BTEX = 0.005 mg/kg
 Method detection limit for TRPH = 10 mg/kg
 Method detection limit for PNAs = 0.05 mg/kg to 2.5 mg/kg
 ND = Not detected above method detection limit
 NA = Not analyzed

2.3 Backfilling, Compaction and Paving

From August 7 to 14, 1995, BATM performed soil backfilling and compaction of the entire excavation. The deep portions of the excavation (below 6 feet below grade) were filled and compacted with clean on-site and imported pea gravel. Filter fabric was placed above the pea gravel and a copper water line, located in the former diesel UST excavation, was securely capped prior to backfilling with clean on-site soil.

The soil was placed and compacted in 8-inch lifts with 90 percent relative compaction to within 1 inches below grade. Clean imported base rock was placed and compacted from 12 inches to within 4 inches below grade. Compaction testing, performed at 4 and 1 feet below grade, passed 90% compaction specification. At the completion of the backfilling and compaction activities, the disturbed areas were saw cut prior to resurfacing the entire excavation with a 4-inch layer of asphalt to match pre-existing conditions.

On August 23, 1995, BATM loaded and hauled approximately 170 tons of petroleum hydrocarbons impacted soil for disposal at Vasco Road Landfill in Livermore. Non-Hazardous special waste manifest forms are enclosed in Attachment C.

Section 3 Conclusions

CDM presents the following conclusions based upon this and previous phases of work:

- The soil remedial activity effectively removed soil impacted with petroleum hydrocarbons to levels below 100 mg/kg except at the east side wall area of the lube oil tank where a single soil sample exhibited at TRPH concentration of 120 mg/kg. Excavation was terminated as not to undermine the pump station building foundation.

- All soil borings located around the final excavation appeared to be free of petroleum hydrocarbons with the exception of soil boring BH-6 with a Total Oil and Grease concentration of 60 mg/kg. Soil contamination identified in soil boring BH-4 to a depth of 15 feet were removed by remedial excavation activities (see Figure 2).

Appendix A
Field IR Protocol and Sample Data
Form

Standard Operating Procedure, Field Soil Samples Total Petroleum Hydrocarbons, Recoverable (TRPH) EPA 418.1

- 1.0 The infrared (IR) instrument(s) will be calibrated on a monthly basis by the laboratory.
- 2.0 Freon, standards, and spike solutions must be kept cool in an insulated cooler.
- 3.0 Warm up the IR instrument for approximately 10 minutes (without cuvette) or until no detectable down scale drift is evident.
- 4.0 Zero the instrument:

*APPROX
WTC Weights -*

4.1 Prepare a method blank as follows:

- dispense 25 ml cold freon to a clean 40 ml screw top VOA vial;
- add 1.0 gm ± 0.25 gm sodium sulfate (Na₂SO₄) and 0.5 gm ± 0.1 gm silica gel to the VOA;
- cap VOA and mix well;
- filter the method blank through a Whatman #41 (or #40) filter paper into a clean cuvette. Save the remainder of the method blank (including the sodium sulfate and silica gel) in a chilled place for later use.

4.2 Place the cuvette with the method blank in the instrument and adjust the instrument to read exactly zero using the fine tune adjustment knob in the 1A range setting. Lock the adjustment knob once the instrument is zeroed.

5.0 Perform an initial calibration check to verify system calibration:

Don't have to do just put standard directly into cuvette

5.1 Transfer 25 ml of calibration standard (prepared in advance by laboratory) into a clean 40 ml VOA. Add sodium sulfate and silica gel to the standard, and then filter it into a clean cuvette (follow same directions as in Section 4). Save the remainder of the calibration standard (including the sodium sulfate and silica gel) in a chilled place for later use.

5.2 Place cuvette with filtered standard in the instrument and record the response (absorbance) on the field IR worksheet. The instrument should be in the 1A range setting.

5.3 Calculate the calibration standard percent recovery:

$$\frac{A_{std} \times CF}{C_{std}} \times 100 = \% \text{ Recovery}$$

- A_{std} = Absorbance of calibration standard
- CF = Calibration factor (mg/L/abs) - *Shown on instrument*
- C_{std} = Concentration of standard (mg/L) - *500 mg/L*

NOTE: If % recovery is not within 100% ± 15%, then the instrument requires recalibration and should not be used until new calibration curve is generated.

5.4 The calibration check should also be done at the end of the day.

6.0 Field method for soils and sludges:

6.1 Accurately weigh 20 gm ± 1.0 gm of the soil sample into a clean 40 ml VOA vial (any glass container with a teflon-lined lid can be used). Record the weight of the sample on the field IR worksheet.

6.2 Dispense 25 mls of cool freon to the sample.

add more Na2SO4 if sample is "clayey" or wet until sample breaks up easily

6.3 Add 1.0 gm ± 0.25 gm sodium sulfate, 0.5 gm ± 0.1 gm silica gel, and a nylon ball to the sample. If the soil sample is clayey or wet, more sodium sulfate should be used.

add more silica gel if sample has high organic content

6.4 Immediately cap the VOA and shake vigorously for 1 to 2 minutes. If the sample is not breaking up easily, break up the sample using a clean stainless steel spatula. The sample must be broken up as much as possible in order for the freon to contact and extract any hydrocarbons. Let samples sit, with occasional shaking, in a cooled ice chest for approximately 15 minutes or longer.

less if sandy

6.5 Filter a small amount of the sample through a Whatman #41 (or #40) filter paper into an erlenmeyer flask. Rinse the flask with the sample and discard it into the waste container. Filter remainder of sample into the "pre-rinsed" erlenmeyer flask. Immediately transfer the filtered solution to a cuvette. The cuvette should be rinsed with the filtered solution before an instrument response is measured. Record the absorbance on the field IR worksheet. The sample will have to be diluted if the absorbance reading is greater than approximately 0.7 - 0.8 (on the 1A range setting). See Section 7 on dilution procedures.

6.6 Calculate the concentration of total recoverable petroleum hydrocarbons (TRPH) in the soil sample from the following equation:

$$\frac{A \times CF \times SV \times DF}{MM} \quad (\text{eqn. 6.6.1})$$

- A = Absorbance reading of sample
- CF = Calibration Factor (mg/L/abs) (1410)
- SV = Solvent Volume (ml) (25ml)
- DF = Dilution Factor (1)
- MM = Weight of Sample (g) (20 gm)

7.0 Dilutions:

7.1 Pipet 1 ml of concentrated sample solution from cuvette into a clean erlenmeyer flask. If you don't have a pipet, transfer sample from completely filled cuvette (4 mls) into a clean erlenmeyer flask.

- 7.2 Add 24 mls of cool freon to the flask. If you have used a full cuvette (4 mls) of sample, add 25 mls of cool freon to the flask. Use part of the 25 mls to rinse the cuvette - add this rinsate to the flask also.
- 7.3 Transfer diluted solution to a cuvette. Rinse cuvette several times with this solution prior to recording the instrument response.
- 7.4 Record the instrument response and the dilution factor (see Section 7.6) on the field IR worksheet.
- 7.5 Calculate the TRPH concentration of the soil sample from equation 6.6.1.
- 7.6 The dilution factor (DF) equals:

Total Volume (volume of conc. sample + freon volume)

Volume of Concentrated Sample

example: 1 ml concentrated solution, 24 mls freon — DF = 25
 example: 4 mls concentrated solution (1 cuvette), 25 mls freon —
 DF = 29/4 = 7.25

Total Recoverable Petroleum Hydrocarbons (EPA 418.1) Worksheet

Date: 7-27-95
 Project Name: SUNOL PUMP STATION
 Project No.: 5800-114-CD-HGT
 Instrument ID:
 Analyst: HOA TRINH

Calibration Data:	Calibration	
	Initial	Final
Calibration Factor, CF (mg/LA)	1210	1210
Method Blank Absorb.	0	0
Cal. Standard Conc. (mg/L)	500	500
Calib. Absorb., CA		
Recovery, %		

Page 1 of 1

Sample ID	Observations	Matrix Mass MM (g)	Solvent Volume SV (ml)	Dilution Factor DF	Absorbance, A 1A Setting	TRPH* (mg/Kg)
S-1-4CY	Top of ex.	20.2	25.0	—	0.00	0
S-2-10CY	NATIVE SIL	20.4	25.0	—	0.01	<18
S-3-C1	From Clean P/U	20.1	25.0	—	0.01	<18
S-4-PH1	P/U @ West of b.	20.2	25.0	—	0.07	123
S-5-20CY	Some stain	20.1	25.0	—	0.08	141
S-6-PH2	West of building	20.1	25.0	—	0.07	123
S-7-PH3	pole north of build	20.0	25.0	—	0.01	<18
S-8-23CY	odor, stain	20.0	25.0	—	0.36	635
S-9-PH4	same @ S-7-PH3	20.5	25.0	—	0.01	<18
S-10-45CY	Used tank	20.1	25.0	—	6.04	70.5
S-11-45CY	"	20.0	25.0	—	0.055	61.7
S-12-50CY	bottom lube oil	20.1	25.0	—	0.09	158.6
S-13-60CY	"	20.0	25.0	—	0.01	<18
S-14-SW1	diesel North east	20.1	25.0	—	0.00	0
S-15-SW2	" north west	20.0	25.0	—	0.00	0
S-16-SW3	diesel east	20.0	25.0	—	0.00	0
S-17-SW4	lube, South	20.1	25.0	—	0.01	<18
S-18-SW5	Main, west	20.0	25.0	—	0.00	0
			25.0			
			25.0			
			25.0			
			25.0			
			25.0			
			25.0			
Spiked:			25.0			
Spike Dup:			25.0			

Note: Volume of spike solution is 1 ml and volume of Freon added is 24 ml for a final volume of 25 ml.

* TRPH = (A x CF x SV x DF) / MM

** DF = Total Volume / Conc. Volume

Concentration of spike solution (mg/ml)	% Recovery
Actual spike = mg spike / MM x 1000	
Actual spike dup = mg spike / MM x 1000	

Appendix B
Analytical reports and Chain-of-
Custody Records

CHROMALAB, INC.

Environmental Services (SDB)

August 4, 1995

CAMP DRESSER & MCKEE Walnut Cr

Submission #: 9507340

Atten: Hoa Trinh

Project: SUNOL PUMP STATION

Project#: 5800-114-CO-MGT

REPORTING INFORMATION

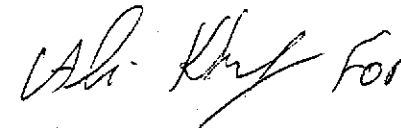
Sample(s) were received cold and in good condition on July 28, 1995. They were refrigerated on receipt, and analyzed on the date shown on the attached report. ChromaLab followed EPA or equivalent methods for all analyses reported.

No discrepancies were observed or difficulties encountered with the analysis.

Motor oil was observed in the following samples:

N-1-S
NW-1-B
NE-1-B
E-1-S
S-1-S
C-1-A,B,C,D
C-2-A,B,C,D


Jill Thomas
Quality Assurance Manager


Eric Tam
Laboratory Director

CHROMALAB, INC.

Environmental Services (SDB)

August 1, 1995

Submission #: 9507340

CAMP DRESSER & MCKEE Walnut Cr

Atten: Hoa Trinh

Project: SUNOL PUMP STATION
Received: July 28, 1995

Project#: 5800-114-CO-MGT

re: 5 samples for Total Recoverable Petroleum Hydrocarbons analysis.
Method: EPA 418.1

Sampled: July 27, 1995

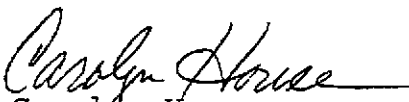
Matrix: SOIL

Extracted: July 31, 1995

Run: 7856-C

Analyzed: July 31, 1995

Spl #	Sample ID	TRPH (mg/Kg)	REPORTING	BLANK	BLANK SPIKE
			LIMIT (mg/Kg)	RESULT (mg/Kg)	RESULT (%)
97315	S-1-S	26	10	N.D.	98
97316	W-2-S	6900	10	N.D.	98
97317	E-2-S	7000	10	N.D.	98
97318	S-2-B	14	10	N.D.	98
97319	S-2-S	10	10	N.D.	98


Carolyn House
Extractions Supervisor


Ali Khazraji
Organic Manager

CHROMALAB, INC.

Environmental Services (SDB)

August 3, 1995

Submission #: 9507340

CAMP DRESSER & MCKEE Walnut Cr

Atten: Hoa Trinh

Project: SUNOL PUMP STATION
Received: July 28, 1995

Project#: 5800-114-CO-MGT

re: 14 samples for BTEX compounds analysis.
Method: EPA 8020

Sampled: July 27, 1995

Matrix: SOIL

Run: 7880-1

Analyzed: August 2, 1995

Spl #	Sample ID	Benzene (ug/Kg)	Toluene (ug/Kg)	Ethyl Benzene (ug/Kg)	Total Xylenes (ug/Kg)
97316	W-2-S	N.D.	N.D.	N.D.	N.D.
97317	E-2-S	N.D.	N.D.	N.D.	N.D.

Sampled: July 27, 1995

Matrix: SOIL

Run: 7881-2

Analyzed: August 2, 1995

Spl #	Sample ID	Benzene (ug/Kg)	Toluene (ug/Kg)	Ethyl Benzene (ug/Kg)	Total Xylenes (ug/Kg)
97308	N-D-S	N.D.	N.D.	N.D.	N.D.
97310	N-1-S	N.D.	N.D.	N.D.	N.D.
97312	NE-1-B	N.D.	N.D.	N.D.	N.D.
97313	W-1-S	N.D.	N.D.	N.D.	N.D.
97320	C-1-A,B,C,D	N.D.	N.D.	N.D.	N.D.

Sampled: July 27, 1995

Matrix: SOIL

Run: 7882-3

Analyzed: August 2, 1995

Spl #	Sample ID	Benzene (ug/Kg)	Toluene (ug/Kg)	Ethyl Benzene (ug/Kg)	Total Xylenes (ug/Kg)
97321	C-2-A,B,C,D	N.D.	N.D.	N.D.	N.D.

Sampled: July 27, 1995

Matrix: SOIL

Run: 7883-4

Analyzed: August 2, 1995

Spl #	Sample ID	Benzene (ug/Kg)	Toluene (ug/Kg)	Ethyl Benzene (ug/Kg)	Total Xylenes (ug/Kg)
97309	E-D-S	N.D.	N.D.	N.D.	N.D.
97311	NW-1-B	N.D.	N.D.	N.D.	N.D.
97314	E-1-S	N.D.	N.D.	26	64
97315	S-1-S	N.D.	N.D.	N.D.	N.D.
97318	S-2-B	N.D.	N.D.	N.D.	N.D.

CHROMALAB, INC.

Environmental Services (SDB)

August 3, 1995

Submission #: 9507340

Page 2

CAMP DRESSER & MCKEE Walnut Cr

Atten: Hoa Trinh

Project: SUNOL PUMP STATION
Received: July 28, 1995

Project#: 5800-114-CO-MGT

re: 14 samples for BTEX compounds analysis, continued.
Method: EPA 8020

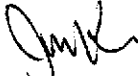
Sampled: July 27, 1995

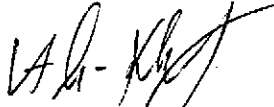
Matrix: SOIL

Run: 7888-2

Analyzed: August 3, 1995

Spl #	Sample ID	Benzene (ug/Kg)	Toluene (ug/Kg)	Ethyl Benzene (ug/Kg)	Total Xylenes (ug/Kg)
97319	S-2-S	N.D.	N.D.	N.D.	N.D.
Reporting Limits		5	5	5	5
Blank Result		N.D.	N.D.	N.D.	N.D.
Blank Spike Result (%)		92	95	100	93


Jack Kelly
Chemist


Ali Kharrazi
Organic Manager

CHROMALAB, INC.

Environmental Services (SDB)

August 4, 1995

Submission #: 9507340

CAMP DRESSER & MCKEE Walnut Cr

Atten: Hoa Trinh

Project: SUNOL PUMP STATION
Received: July 28, 1995

Project#: 5800-114-CO-MGT

re: 10 samples for Diesel analysis.
Method: EPA 3550/8015M

Sampled: July 27, 1995

Matrix: SOIL
Run: 7852-D

Extracted: July 31, 1995
Analyzed: August 1, 1995

Spl #	Sample ID	DIESEL (mg/Kg)	REPORTING LIMIT (mg/Kg)	BLANK RESULT (mg/Kg)	BLANK SPIKE RESULT (%)
97308	N-D-S	N.D.	1.0	N.D.	73
97309	E-D-S	N.D.	1.0	N.D.	73
97310	N-1-S	47	1.0	N.D.	73
97311	NW-1-B	67	1.0	N.D.	73
97312	NE-1-B	59	1.0	N.D.	73
97313	W-1-S	N.D.	1.0	N.D.	73
97314	E-1-S	3200	100	N.D.	73

For above sample: REPORTING LIMIT RAISED 100X DUE TO DILUTION.

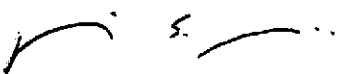
Sampled: July 27, 1995

Matrix: SOIL
Run: 7852-D

Extracted: July 31, 1995
Analyzed: August 3, 1995

Spl #	Sample ID	DIESEL (mg/Kg)	REPORTING LIMIT (mg/Kg)	BLANK RESULT (mg/Kg)	BLANK SPIKE RESULT (%)
97315	S-1-S	35	1.0	N.D.	73
97320	C-1-A,B,C,D	140	2.0	N.D.	73
97321	C-2-A,B,C,D	50	1.0	N.D.	73

For above sample: REPORTING LIMIT RAISED 2X DUE TO DILUTION.


Dennis Mayugba
Chemist


Ali Kharrazi
Organic Manager

CHROMALAB, INC.

Environmental Services (SDB)

August 4, 1995

Submission #: 9507340

CAMP DRESSER & MCKEE Walnut Cr

Atten: Hoa Trinh

Project: SUNOL PUMP STATION
Received: July 28, 1995

Project#: 5800-114-CO-MGT

re: One sample for Polynuclear Aromatic Hydrocarbons (PAHs) analysis.
Method: EPA 3550/8270

SampleID: S-1-S

Sample #: 97315

Sampled: July 27, 1995

Matrix: SOIL

Run: 7844-

Extracted: July 31, 1995

Analyzed: July 31, 1995

Analyte	RESULT	REPORTING	BLANK	BLANK SPIKE
	(mg/Kg)	LIMIT	RESULT	RESULT
	(mg/Kg)	(mg/Kg)	(mg/Kg)	(%)
NAPHTHALENE	N.D.	0.05	N.D.	--
2- METHYLNAPHTHALENE	N.D.	0.05	N.D.	--
2- CHLORONAPHTHALENE	N.D.	0.05	N.D.	--
ACENAPHTHYLENE	N.D.	0.05	N.D.	--
ACENAPHTHENE	N.D.	0.05	N.D.	70
FLUORENE	N.D.	0.05	N.D.	--
PHENANTHRENE	N.D.	0.05	N.D.	--
ANTHRACENE	N.D.	0.05	N.D.	--
FLUORANTHRENE	N.D.	0.05	N.D.	--
PYRENE	N.D.	0.05	N.D.	60
BENZO (A) ANTHRACENE	N.D.	0.05	N.D.	--
CHRYSENE	N.D.	0.05	N.D.	--
BENZO (B) FLUORANTHENE	N.D.	0.05	N.D.	--
BENZO (K) FLUORANTHENE	N.D.	0.05	N.D.	--
BENZO (A) PYRENE	N.D.	0.05	N.D.	--
IDENO (1, 2, 3-CD) PYRENE	N.D.	0.05	N.D.	--
DIBENZO (A, H) ANTHRACENE	N.D.	0.05	N.D.	--
BENZO (GHI) PERYLENE	N.D.	0.05	N.D.	--


Alex Tam
Chemist


Ali Kharrazi
Organic Manager

CHROMALAB, INC.

Environmental Services (SDB)

August 4, 1995

Submission #: 9507340

CAMP DRESSER & MCKEE Walnut Cr

Atten: Hoa Trinh

Project: SUNOL PUMP STATION
Received: July 28, 1995

Project#: 5800-114-CO-MGT

re: One sample for Polynuclear Aromatic Hydrocarbons (PAHs) analysis.
Method: EPA 3550/8270

SampleID: W-2-S

Sample #: 97316

Sampled: July 27, 1995

Matrix: SOIL

Run: 7844-

Extracted: July 31, 1995

Analyzed: July 31, 1995

Analyte	RESULT (mg/Kg)	REPORTING LIMIT (mg/Kg)	BLANK RESULT (mg/Kg)	BLANK SPIKE RESULT (%)
NAPHTHALENE	N.D.	0.5	N.D.	--
2- METHYLNAPHTHALENE	N.D.	0.5	N.D.	--
2- CHLORONAPHTHALENE	N.D.	0.5	N.D.	--
ACENAPHTHYLENE	N.D.	0.5	N.D.	--
ACENAPHTHENE	N.D.	0.5	N.D.	70
FLUORENE	N.D.	0.5	N.D.	--
PHENANTHRENE	1.2	0.5	N.D.	--
ANTHRACENE	0.5	0.5	N.D.	--
FLUORANTHRENE	3.8	0.5	N.D.	--
PYRENE	3.3	0.5	N.D.	60
BENZO (A) ANTHRACENE	1.8	0.5	N.D.	--
CHRYSENE	2.3	0.5	N.D.	--
BENZO (B) FLUORANTHENE	1.0	0.5	N.D.	--
BENZO (K) FLUORANTHENE	1.0	0.5	N.D.	--
BENZO (A) PYRENE	1.1	0.5	N.D.	--
IDENO (1, 2, 3 -CD) PYRENE	N.D.	0.5	N.D.	--
DIBENZO (A, H) ANTHRACENE	N.D.	0.5	N.D.	--
BENZO (GHI) PERYLENE	N.D.	0.5	N.D.	--

For above sample: REPORTING LIMITS RAISED BY 10X DUE TO MATRIX INTERFERENCE


Alex Tam
Chemist


Ali Kharrazi
Organic Manager

CHROMALAB, INC.

Environmental Services (SDB)

August 4, 1995

Submission #: 9507340

CAMP DRESSER & MCKEE Walnut Cr

Atten: Hoa Trinh

Project: SUNOL PUMP STATION
Received: July 28, 1995

Project#: 5800-114-CO-MGT

re: One sample for Polynuclear Aromatic Hydrocarbons (PAHs) analysis.
Method: EPA 3550/8270

SampleID: E-2-S

Sample #: 97317

Sampled: July 27, 1995

Matrix: SOIL

Run: 7844-


Extracted: July 31, 1995

Analyzed: July 31, 1995

Analyte	RESULT (mg/Kg)	REPORTING LIMIT (mg/Kg)	BLANK RESULT (mg/Kg)	BLANK SPIKE RESULT (%)
NAPHTHALENE	N.D.	2.5	N.D.	--
2- METHYLNAPHTHALENE	N.D.	2.5	N.D.	--
2- CHLORONAPHTHALENE	N.D.	2.5	N.D.	--
ACENAPHTHYLENE	N.D.	2.5	N.D.	--
ACENAPHTHENE	N.D.	2.5	N.D.	--
FLUORENE	N.D.	2.5	N.D.	70
PHENANTHRENE	N.D.	2.5	N.D.	--
ANTHRACENE	N.D.	2.5	N.D.	--
FLUORANTHRENE	N.D.	2.5	N.D.	--
PYRENE	N.D.	2.5	N.D.	--
BENZO (A) ANTHRACENE	N.D.	2.5	N.D.	60
CHRYSENE	N.D.	2.5	N.D.	--
BENZO (B) FLUORANTHENE	N.D.	2.5	N.D.	--
BENZO (K) FLUORANTHENE	N.D.	2.5	N.D.	--
BENZO (A) PYRENE	N.D.	2.5	N.D.	--
IDENO (1, 2, 3-CD) PYRENE	N.D.	2.5	N.D.	--
DIBENZO (A, H) ANTHRACENE	N.D.	2.5	N.D.	--
BENZO (GHI) PERYLENE	N.D.	2.5	N.D.	--

For above sample: REPORTING LIMITS RAISED BY 50X DUE TO MATRIX INTERFERENCE


Alex Tam
Chemist


Ali Kharrazi
Organic Manager

CHROMALAB, INC.

Environmental Services (SDB)

August 4, 1995

Submission #: 9507340

CAMP DRESSER & MCKEE Walnut Cr

Atten: Hoa Trinh

Project: SUNOL PUMP STATION
Received: July 28, 1995

Project#: 5800-114-CO-MGT

re: One sample for Polynuclear Aromatic Hydrocarbons (PAHs) analysis.
Method: EPA 3550/8270

SampleID: S-2-B

Sample #: 97318

Sampled: July 27, 1995


Matrix: SOIL


Run: 7844-

Extracted: July 31, 1995

Analyzed: July 31, 1995

Analyte	RESULT (mg/Kg)	REPORTING LIMIT (mg/Kg)	BLANK RESULT (mg/Kg)	BLANK SPIKE RESULT (%)
NAPHTHALENE	N.D.	0.05	N.D.	--
2- METHYLNAPHTHALENE	N.D.	0.05	N.D.	--
2- CHLORONAPHTHALENE	N.D.	0.05	N.D.	--
ACENAPHTHYLENE	N.D.	0.05	N.D.	--
ACENAPHTHENE	N.D.	0.05	N.D.	70
FLUORENE	N.D.	0.05	N.D.	--
PHENANTHRENE	N.D.	0.05	N.D.	--
ANTHRACENE	N.D.	0.05	N.D.	--
FLUORANTHRENE	N.D.	0.05	N.D.	--
PYRENE	N.D.	0.05	N.D.	60
BENZO (A) ANTHRACENE	N.D.	0.05	N.D.	--
CHRYSENE	N.D.	0.05	N.D.	--
BENZO (B) FLUORANTHENE	N.D.	0.05	N.D.	--
BENZO (K) FLUORANTHENE	N.D.	0.05	N.D.	--
BENZO (A) PYRENE	N.D.	0.05	N.D.	--
IDENO (1, 2, 3-CD) PYRENE	N.D.	0.05	N.D.	--
DIBENZO (A, H) ANTHRACENE	N.D.	0.05	N.D.	--
BENZO (GHI) PERYLENE	N.D.	0.05	N.D.	--


Alex Tam
Chemist


Ali Kharrazi
Organic Manager

CHROMALAB, INC.

Environmental Services (SDB)

August 4, 1995

Submission #: 9507340

CAMP DRESSER & MCKEE Walnut Cr

Atten: Hoa Trinh

Project: SUNOL PUMP STATION
Received: July 28, 1995

Project#: 5800-114-CO-MGT

re: One sample for Polynuclear Aromatic Hydrocarbons (PAHs) analysis.
Method: EPA 3550/8270

SampleID: S-2-S

Sample #: 97319

Sampled: July 27, 1995


Matrix: SOIL


Run: 7844-

Extracted: July 31, 1995

Analyzed: July 31, 1995

Analyte	RESULT (mg/Kg)	REPORTING LIMIT (mg/Kg)	BLANK RESULT (mg/Kg)	BLANK SPIKE RESULT (%)
NAPHTHALENE	N.D.	0.05	N.D.	--
2- METHYLNAPHTHALENE	N.D.	0.05	N.D.	--
2- CHLORONAPHTHALENE	N.D.	0.05	N.D.	--
ACENAPHTHYLENE	N.D.	0.05	N.D.	--
ACENAPHTHENE	N.D.	0.05	N.D.	--
FLUORENE	N.D.	0.05	N.D.	70
PHENANTHRENE	N.D.	0.05	N.D.	--
ANTHRACENE	N.D.	0.05	N.D.	--
FLUORANTHRENE	N.D.	0.05	N.D.	--
PYRENE	N.D.	0.05	N.D.	--
BENZO (A) ANTHRACENE	N.D.	0.05	N.D.	60
CHRYSENE	N.D.	0.05	N.D.	--
BENZO (B) FLUORANTHENE	N.D.	0.05	N.D.	--
BENZO (K) FLUORANTHENE	N.D.	0.05	N.D.	--
BENZO (A) PYRENE	N.D.	0.05	N.D.	--
IDENO (1, 2, 3-CD) PYRENE	N.D.	0.05	N.D.	--
DIBENZO (A, H) ANTHRACENE	N.D.	0.05	N.D.	--
BENZO (GHI) PERYLENE	N.D.	0.05	N.D.	--


Alex Tam
Chemist


Ali Kharrazi
Organic Manager

CHAIN OF CUSTODY RECORD

Camp Dresser & McKee Inc.



PROJECT NAME SUNOL PUMP STATION

PROJECT NUMBER 300-14-CD-UG-T

Field Log Book Reference No. _____

SAMPLE NUMBER	DATE	TIME	SAMPLE LOCATION	SAMPLE TYPE	ANALYSES						NUMBER OF CONTAINERS	LOG BOOK PG. NO.	REMARKS
					EXTR. ORG. VOA	PEST. PCB	TRACE METALS	TPH-D	BTEX				
C-1-A	7/27		DIRTY	SOIL									<p>HOLD SAMPLE FOR OTHER SAMPLE ANALYSIS. - WILL CALL NEXT WEEK</p>
C-1-B			Pure										
C-1-C					Composite & discrete samples								
C-1-D													
C-2-A													
C-2-B													
C-2-C	✓	✓	✓	✓	Composite & discrete samples								
2-2-D	✓	✓	✓	✓	Composite & discrete samples								

SAMPLED BY (SIGN) [Signature] 5 DAY TAT

RELINQUISHED BY (SIGN) ① <u>[Signature]</u> DATE/TIME (9/28, 8:51)	RELINQUISHED BY (SIGN) ② _____ DATE/TIME (/ /)	RELINQUISHED BY (SIGN) _____ DATE/TIME (/ /)	RELINQUISHED BY (SIGN) ④ _____ DATE/TIME (/ /)	RELINQUISHED BY (SIGN) ⑤ _____ DATE/TIME (/ /)
RECEIVED BY (SIGN) ① _____ DATE/TIME (/ /)	RECEIVED BY (SIGN) ② _____ DATE/TIME (/ /)	RECEIVED BY (SIGN) ③ _____ DATE/TIME (/ /)	RECEIVED BY (SIGN) ④ _____ DATE/TIME (/ /)	RECEIVED BY (SIGN) ⑤ _____ DATE/TIME (/ /)

METHOD OF SHIPMENT _____	SHIPPED BY (SIGN) _____	RECEIVED FOR LABORATORY BY (SIGN) <u>[Signature]</u>	DATE/TIME <u>7/28/95, 8:51</u>
-----------------------------	----------------------------	---	-----------------------------------

LEGEND: Original: Return to Sample Traffic Control Center Copies: Ship with Samples

CHAIN OF CUSTODY RECORD

Camp Dresser & McKee Inc.



PROJECT NAME SUNOL PUMP STATION

PROJECT NUMBER S800-114-CD-UGT

Field Log Book
Reference No. _____

LEGEND: Original: Return to Sample Traffic Control Center Copies: Ship with Samples

SAMPLE NUMBER	DATE	TIME	SAMPLE LOCATION	SAMPLE TYPE	ANALYSES								NUMBER OF CONTAINERS	LOG BOOK PG. NO.	REMARKS
					EXTR. ORG.	VOA	PEST. PCB	TRACE METALS	TPH-D	BTEX	ALP-1	8100 PPM			
N-D-S	7/27/95		Diesel TANK	SOL					✓	✓				1	SUBM #: 9507340 REP: MD CLIENT: CDM-WC DUE: 08/04/95 REF #: 23125
E-D-S			"						✓	✓					
N-1-S			LARGE EX.						✓	✓					
NW-1-B									✓	✓					
NE-1-B									✓	✓					
W-1-S									✓	✓					
E-1-S									✓	✓					
S-1-S									✓	✓	✓	✓			
W-2-S				SMALL EX.					✓	✓	✓	✓			
E-2-S									✓	✓	✓	✓			
S-2-B								✓	✓	✓	✓				
S-2-S								✓	✓	✓	✓				

SAMPLED BY (SIGN) HOA TRIMM / 5 DAY TAT

RELINQUISHED BY (SIGN) ① <u>[Signature]</u> DATE/TIME (7/28/95)	RELINQUISHED BY (SIGN) ② _____ DATE/TIME (/ /)	RELINQUISHED BY (SIGN) _____ DATE/TIME (/ /)	RELINQUISHED BY (SIGN) ④ _____ DATE/TIME (/ /)	RELINQUISHED BY (SIGN) ⑤ _____ DATE/TIME (/ /)
RECEIVED BY (SIGN) ① _____ DATE/TIME (/ /)	RECEIVED BY (SIGN) ② _____ DATE/TIME (/ /)	RECEIVED BY (SIGN) ③ _____ DATE/TIME (/ /)	RECEIVED BY (SIGN) ④ _____ DATE/TIME (/ /)	RECEIVED BY (SIGN) ⑤ _____ DATE/TIME (/ /)

METHOD OF SHIPMENT _____	SHIPPED BY (SIGN) _____	RECEIVED FOR LABORATORY BY (SIGN) <u>Chris Rowley</u>	DATE/TIME <u>7/28/95, 8:51</u>
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CHROMALAB, INC.

Environmental Services (SDB)

August 8, 1995

Submission #: 9508086

CAMP DRESSER & MCKEE Walnut Cr

Atten: Hoa Trinh

Project: SUNOL PUMP STATION
Received: August 7, 1995

Project#: 5800-114-CD-1467

re: 1 sample for Diesel analysis.
Method: EPA 3550/8015M

Sampled: August 7, 1995

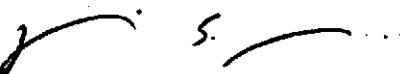
Matrix: SOIL

Extracted: August 7, 1995

Run: 7933-D

Analyzed: August 8, 1995

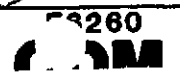
Spl #	Sample ID	DIESEL (mg/Kg)	REPORTING LIMIT (mg/Kg)	BLANK RESULT (mg/Kg)	BLANK SPIKE RESULT (%)
98324	E-1-S-REX	N.D.	1.0	N.D.	118


Dennis Mayugba
Chemist


Ali Kharrazi
Organic Manager

06/18/24

1500



CHAIN OF CUSTODY RECORD

Canip Dresser & McKee Inc.

PROJECT NAME SUNOL PUMP STATION

PROJECT NUMBER 5800-114-CD-1167

Field
Refer

SUBM #: 9508086
CLIENT: CDM-WC
DUE: 08/08/95
REF #: 23258

SAMPLE NUMBER	DATE	TIME	SAMPLE LOCATION	SAMPLE TYPE	ANALYSES					NUMBER OF CONTAINERS	LOG BOOK PG. NO.	REMARKS
					EXTRA ORG	VOA	PEST. PCB	TRACE METALS	TPH-D			
E-1-S-	8-7-95	1500	MAIN EX.							24	TAT	
											RUSH	
											PLEASE FAX	
											RESULTS TO:	
											HOA TRIN	
											CDM	
											ASAP	

RUSH

SAMPLED BY (SIGN) [Signature]

RELINQUISHED BY (SIGN)

① [Signature] DATE/TIME (8/7 / 1325)

② _____ DATE/TIME (/ /)

③ _____ DATE/TIME (/ /)

④ _____ DATE/TIME (/ /)

⑤ _____ DATE/TIME (/ /)

RECEIVED BY (SIGN)

① _____ DATE/TIME (/ /)

② _____ DATE/TIME (/ /)

③ _____ DATE/TIME (/ /)

④ _____ DATE/TIME (/ /)

⑤ [Signature] DATE/TIME (8/1/95 / 15:24)

METHOD OF SHIPMENT _____

SHIPPED BY (SIGN) _____

RECEIVED FOR LABORATORY BY (SIGN) _____

DATE/TIME (/ /) _____

LEGEND: Original: Return to Sample Traffic Control Center Copies: Ship with Samples

CHROMALAB, INC.

Environmental Services (SDB)

August 7, 1995

Submission #: 9508083

CAMP DRESSER & MCKEE Walnut Cr

Atten: Hoa Trinh

Project: SUNOL PUMP
Received: August 7, 1995

Project#: 5800-114-CD-MGT


re: 2 samples for Total Recoverable Petroleum Hydrocarbons analysis.
Method: EPA 418.1

Sampled: August 7, 1995

Matrix: SOIL
Run: 7932-C

Extracted: August 7, 1995
Analyzed: August 7, 1995

Spl #	Sample ID	TRPH (mg/Kg)	REPORTING	BLANK	BLANK SPIKE
			LIMIT (mg/Kg)	RESULT (mg/Kg)	RESULT (%)
98297	E-2 S-REX	120	10	N.D.	86
98298	W-2 S-REX	40	10	N.D.	86


Carolyn House
Extractions Supervisor


Ali Kharrazi
Organic Manager

CHAIN OF CUSTODY RECORD

Canip Dresser & McKee Inc.

23254

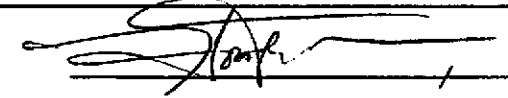
F4260
CDM

PROJECT NAME SUNOL PUMP

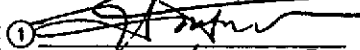

PROJECT NUMBER SB00-114-CD-1167

Field Log Book
Reference No. _____

SAMPLE NUMBER	DATE	TIME	SAMPLE LOCATION	SAMPLE TYPE	ANALYSES						NUMBER OF CONTAINERS	LOG BOOK PG. NO.	REMARKS
					EXTR. ORG. VOA	PEST. PCB	TRACE METALS	ALUMINUM	TRIPH.				
E-2 W-2	S-REX S-REX	8/7 8/7	1200 "	Lube Oil "	S S						1 1	2 S	24 HR TAT
RUSH													
<p>PLEASE FAX RESULTS TO: HOA TRINITY CDM (510) 933-4174 <u>FA</u> AS SOON AS POSSIBLE <u>PM MONDAY</u> • MORE ANALYSIS AT LATER DATE</p>													

SAMPLED BY (SIGN) 

SUBM #: 9508083 REP: MI
CLIENT: CDM-WC
DUE: 08/08/95
REF #: 23254

RELINQUISHED BY (SIGN)	RELINQUISHED BY (SIGN)	RELINQUISHED BY (SIGN)	RELINQUISHED BY (SIGN)	RELINQUISHED BY (SIGN)
①  DATE/TIME (8/7 / 1230)	② _____ DATE/TIME (/ /)	_____ DATE/TIME (/ /)	④ _____ DATE/TIME (/ /)	⑤ _____ DATE/TIME (/ /)
RECEIVED BY (SIGN)	RECEIVED BY (SIGN)	RECEIVED BY (SIGN)	RECEIVED BY (SIGN)	RECEIVED BY (SIGN)
①  DATE/TIME (8/7 / 1230)	② _____ DATE/TIME (/ /)	③ _____ DATE/TIME (/ /)	④ _____ DATE/TIME (/ /)	⑤ _____ DATE/TIME (/ /)

METHOD OF SHIPMENT	SHIPPED BY (SIGN)	RECEIVED FOR LABORATORY BY (SIGN)	DATE/TIME
_____	_____	_____	(/ /)

LEGEND: Original: Return to Sample Traffic Control Center Copies: Ship with Samples

CHROMALAB, INC.

Environmental Services (SDB)

August 21, 1995

Submission #: 9508204

CAMP DRESSER & MCKEE Walnut Cr

Atten: Jeff Willett

Project#: 5800-114-CD-MGT

Project: SUNOL PUMP

Received: August 14, 1995

re: One sample for CAM 17 Metals analysis.
Method: EPA 3050A M/6010/7471

SampleID: C3 A,B,C,D

Sample #: 99189

Sampled: August 14, 1995

Matrix: SOIL

Run: 8066-D

Extracted: August 16, 1995

Analyzed: August 16, 1995

Analyte	RESULT (mg/Kg)	REPORTING LIMIT (mg/Kg)	BLANK RESULT (mg/Kg)	BLANK SPIKE RESULT (%)
ANTIMONY	N.D.	2.0	N.D.	110
ARSENIC	N.D.	1.0	N.D.	105
49		1.0	N.D.	105
BARIUM	N.D.	0.5	N.D.	103
BERYLLIUM	N.D.	0.5	N.D.	103
CADMIUM	N.D.	1.0	N.D.	104
14		1.0	N.D.	102
CHROMIUM	4.3	1.0	N.D.	103
COBALT	9.1	1.0	N.D.	105
COPPER	5.7	1.0	N.D.	105
LEAD	N.D.	1.0	N.D.	105
MOLYBDENUM	35	1.0	N.D.	104
NICKEL	N.D.	2.0	N.D.	102
SELENIUM	N.D.	1.0	N.D.	103
SILVER	N.D.	2.0	N.D.	111
THALLIUM	9.5	1.0	N.D.	103
VANADIUM	21	1.0	N.D.	104
ZINC	N.D.	0.05	N.D.	91
MERCURY				

Doina Danet
Doina Danet
Chemist

John S. Labash
John S. Labash
Inorganic Supervisor

CHROMALAB, INC.

Environmental Services (SDB)

August 16, 1995

Submission #: 9508204

CAMP DRESSER & MCKEE Walnut Cr

Atten: Jeff Willett

Project: SUNOL PUMP
Received: August 14, 1995


Project#: 5800-114-CD-MGT

re: One sample for Polynuclear Aromatic Hydrocarbons (PAHs) analysis.
Method: EPA 3550/8270Sample ID: C3 A,B,C,D
Sample #: 99189
Sampled: August 14, 1995Matrix: SOIL
Run: 8069-AExtracted: August 15, 1995
Analyzed: August 15, 1995

Analyte	RESULT	REPORTING	BLANK	BLANK SPIKE
	(mg/Kg)	LIMIT	RESULT	RESULT
		(mg/Kg)	(mg/Kg)	(%)
NAPHTHALENE	N.D.	0.25	N.D.	--
2- METHYLNAPHTHALENE	N.D.	0.25	N.D.	--
2- CHLORONAPHTHALENE	N.D.	0.25	N.D.	--
ACENAPHTHYLENE	N.D.	0.25	N.D.	--
ACENAPHTHENE	N.D.	0.25	N.D.	73
FLUORENE	N.D.	0.25	N.D.	--
PHENANTHRENE	N.D.	0.25	N.D.	--
ANTHRACENE	N.D.	0.25	N.D.	--
FLUORANTHRENE	N.D.	0.25	N.D.	--
PYRENE	N.D.	0.25	N.D.	74
BENZO (A) ANTHRACENE	N.D.	0.25	N.D.	--
CHRYSENE	N.D.	0.25	N.D.	--
BENZO (B) FLUORANTHENE	N.D.	0.25	N.D.	--
BENZO (K) FLUORANTHENE	N.D.	0.25	N.D.	--
BENZO (A) PYRENE	N.D.	0.25	N.D.	--
IDENO (1, 2, 3-CD) PYRENE	N.D.	0.25	N.D.	--
DIBENZO (A, H) ANTHRACENE	N.D.	0.25	N.D.	--
BENZO (GHI) PERYLENE	N.D.	0.25	N.D.	--

For above sample: REPORTING LIMITS RAISED BY 5X DUE TO MATRIX INTERFERENCE


 Alex Tam
 Chemist


 Ali Kharrazi
 Organic Manager

CHROMALAB, INC.

Environmental Services (SDB)

August 17, 1995

Submission #: 9508204

CAMP DRESSER & MCKEE Walnut Cr

Atten: Jeff Willett
 Project: SUNOL PUMP
 Received: August 14, 1995
 re: One sample for Volatile Organic Compounds analysis.
 Method: EPA 8240/8260

Project#: 5800-114-CD-MGT

Sample ID: C3 A,B,C,D
 Sample #: 99189
 Sampled: August 14, 1995

Matrix: SOIL
 Run: 8086-A

Analyzed: August 16, 1995

Analyte	RESULT (ug/Kg)	REPORTING LIMIT (ug/Kg)	BLANK RESULT (ug/Kg)	BLANK SPIKE RESULT (%)
ACETONE	N.D.	10	N.D.	--
BENZENE	N.D.	5.0	N.D.	102
BROMODICHLOROMETHANE	N.D.	5.0	N.D.	--
BROMOFORM	N.D.	5.0	N.D.	--
BROMOMETHANE	N.D.	5.0	N.D.	--
2-BUTANONE	N.D.	5.0	N.D.	--
CARBON TETRACHLORIDE	N.D.	5.0	N.D.	103
CHLOROBENZENE	N.D.	5.0	N.D.	--
CHLOROETHANE	N.D.	5.0	N.D.	--
2-CHLOROETHYLVINYLETHER	N.D.	5.0	N.D.	--
CHLOROFORM	N.D.	5.0	N.D.	--
CHLOROMETHANE	N.D.	5.0	N.D.	--
DIBROMOCHLOROMETHANE	N.D.	5.0	N.D.	--
1,1-DICHLOROETHANE	N.D.	5.0	N.D.	--
1,2-DICHLOROETHANE	N.D.	5.0	N.D.	85
1,1-DICHLOROETHENE	N.D.	5.0	N.D.	--
1,2-DICHLOROETHENE (CIS)	N.D.	5.0	N.D.	--
1,2-DICHLOROETHENE (TRANS)	N.D.	5.0	N.D.	--
1,2-DICHLOROPROPANE	N.D.	5.0	N.D.	--
1,3-DICHLOROPROPENE (CIS)	N.D.	5.0	N.D.	--
1,3-DICHLOROPROPENE (TRANS)	N.D.	5.0	N.D.	--
ETHYL BENZENE	N.D.	5.0	N.D.	--
2-HEXANONE	N.D.	5.0	N.D.	--
METHYLENE CHLORIDE	N.D.	5.0	N.D.	--
4-METHYL-2-PENTANONE	N.D.	5.0	N.D.	--
STYRENE	N.D.	5.0	N.D.	--
1,1,2,2-TETRACHLOROETHANE	N.D.	5.0	N.D.	--
TETRACHLOROETHENE	N.D.	5.0	N.D.	98
TOLUENE	N.D.	5.0	N.D.	--
1,1,1-TRICHLOROETHANE	N.D.	5.0	N.D.	--
1,1,2-TRICHLOROETHANE	N.D.	5.0	N.D.	104
TRICHLOROETHENE	N.D.	5.0	N.D.	--
TRICHLOROFLUOROMETHANE	N.D.	5.0	N.D.	--
VINYL ACETATE	N.D.	5.0	N.D.	--
VINYL CHLORIDE	N.D.	5.0	N.D.	--
TOTAL XYLENES	N.D.	5.0	N.D.	--

Aaron McMichael
 Aaron McMichael
 Chemist

Ali Khazraji
 Ali Khazraji
 Organic Manager

Appendix C
Non-Hazardous Special Waste
Manifest



NON-HAZARDOUS SPECIAL WASTE & ASBESTOS MANIFEST

CL. 1142
51001142305

If waste is asbestos waste, complete Sections I, II, III and IV.
If waste is NOT asbestos waste, complete only Sections I, II and III.

No. 713571

Section I GENERATOR (Generator completes all of Section I)

a. Generator Name: CITY OF SAN FRANCISCO b. Generating Location: San Francisco, CA
 c. Address: _____ d. Address: 505 Folsom St
San Francisco, CA 94102
 e. Phone No.: _____ f. Phone No.: (510) 862-2484
 If owner of the generating facility differs from the generator, provide:
 g. Owner's Name: CC of SF h. Owner's Phone No.: 415 554 4366

i. BFI WASTE CODE:

CA	4	05	0	2	2	75
----	---	----	---	---	---	----

 k. Quantity:

5	0	0	0	0
---	---	---	---	---

 Units:

Y	0	1	T
---	---	---	---

 Containers:

5	0	0	0	0
---	---	---	---	---

 j. Description of Waste: Oil residue from engine

TYPE	
DM	- METAL DRUM
DP	- PLASTIC DRUM
B	- BAG
BA	- 6 MIL. PLASTIC BAG or WRAP
T	- TRUCK
O	- OTHER

UNITS	
P	- POUNDS
Y	- YARDS
M ³	- CUBIC METERS
Y ³	- CUBIC YARDS
O	- OTHER

GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if the waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR Part 268 and is no longer a hazardous waste as defined by 40 CFR Part 261.

Generator Authorized Agent Name: _____ Signature: _____ Shipment Date:

1	0	1	5
---	---	---	---

Section II TRANSPORTER (Generator complete a-d; Transporter I complete e-g; Transporter II complete h-n)

TRANSPORTER I
 a. Name: Lutrol Transport
 b. Address: 2212 S. Union Ave
Bay Area 93307
 c. Driver Name/Title: Charles Taylor
 d. Phone No.: 905-934-5111 e. Truck No.: L-53
 f. Vehicle License No./State: 5P 27023
 Acknowledgement of Receipt of Materials:
 g. Driver Signature: _____ Shipment Date:

1	0	1	5
---	---	---	---

TRANSPORTER II
 h. Name: _____
 i. Address: _____
N/A
 j. Driver Name/Title: _____
 k. Phone No.: _____ l. Truck No.: _____
 m. Vehicle License No./State: _____
 Acknowledgement of Receipt of Materials:
 n. Driver Signature: _____ Shipment Date:

--	--	--	--	--

Section III DESTINATION (Generator completes a-d, destination site completes e-f)

a. Site Name: BFI c. Phone No.: 415 442 7481
 b. Physical Address: 4001 Mission Blvd
San Francisco, CA 94112
 d. Mailing Address: _____
 e. Discrepancy Indication Space: _____
 I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.
 f. Name of Authorized Agent: _____ Signature: _____ Receipt Date:

--	--	--	--	--

Section IV ASBESTOS (Generator complete a-d, f, g; Operator* completes e.)

a. Operator's* Name: _____ b. Operator's* Phone No.: _____
 c. Operator's* Address: _____
 d. Special Handling Instructions and additional information: _____

OPERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and government regulations.

Operator's* Name & Title: _____

WT-30,37



NON-HAZARDOUS SPECIAL WASTE & ASBESTOS MANIFEST

COM PD

If waste is asbestos waste, complete Sections I, II, III and IV.
If waste is NOT asbestos waste, complete only Sections I, II and III.

No. 713572

SDCC-114-01 NY

Section I GENERATOR (Generator completes all of Section I)

a. Generator Name: City of San Francisco b. Generating Location: Small Pump Station
 c. Address: _____ d. Address: 505 Poloma Way
San Francisco CA 94586
 e. Phone No.: _____ f. Phone No.: (510) 862-2984

If owner of the generating facility differs from the generator, provide:
 g. Owner's Name: C.C.F. SF h. Owner's Phone No.: (415) 554-8366

i. BFI WASTE CODE:

CA	405	082295	50088
----	-----	--------	-------

 Containers: _____
 Description of Waste: Oil Contaminated k. Quantity: _____ Units: _____ No. 01 TYPE T
Oil Contaminated

TYPE	
DM	- METAL DRUM
DP	- PLASTIC DRUM
B	- BAG
BA	- 6 MIL. PLASTIC BAG or WRAP
T	- TRUCK
O	- OTHER

UNITS	
P	- POUNDS
Y	- YARDS
M ³	- CUBIC METERS
Y ³	- CUBIC YARDS
O	- OTHER

GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if the waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR Part 268 and is no longer a hazardous waste as defined by 40 CFR Part 261.

Generator Authorized Agent Name: _____ Signature: _____ Shipment Date: 082395

Section II TRANSPORTER (Generator completes a-d; Transporter I complete e-g; Transporter II complete h-i)

TRANSPORTER I
 a. Name: Litrol Trucking
 b. Address: 2212 So. Union Ave
Bakersfield, CA 93313
 c. Driver Name/Title: Leo Litrol Sr
 d. Phone No.: (305) 334-2196 e. Truck No.: L-321/T-71
 Vehicle License No./State: SP 27143
 Acknowledgement of Receipt of Materials: _____
 Driver Signature: _____ Shipment Date: 082595

TRANSPORTER II
 h. Name: _____
 i. Address: _____
 j. Driver Name/Title: _____
 k. Phone No.: _____ l. Truck No.: _____
 m. Vehicle License No./State: _____
 Acknowledgement of Receipt of Materials: _____
 n. Driver Signature: _____ Shipment Date: _____

Section III DESTINATION (Generator completes a-d; destination site completes e-f)

a. Site Name: RFI c. Phone No.: 510-447-0441
 b. Physical Address: 4101 N. Van Ness Road d. Mailing Address: _____
Livermore CA 94550
 e. Discrepancy Indication Space: _____

I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.

f. Name of Authorized Agent: _____ Signature: _____ Receipt Date: _____

Section IV ASBESTOS (Generator complete a-d, f, g; Operator * completes e)

a. Operator's * Name: _____ b. Operator's * Phone No.: _____
 c. Operator's * Address: _____
 d. Special Handling Instructions and additional information: _____

OPERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and government regulations.

e. Operator's * Name & Title: _____



NON-HAZARDOUS SPECIAL WASTE & ASBESTOS MANIFEST

EDM TO.
SPOW-14-CD-
MET

If waste is asbestos waste, complete Sections I, II, III and IV.
If waste is NOT asbestos waste, complete only Sections I, II and III.

No. 713573

Section I GENERATOR (Generator completes all of Section I)

a. Generator Name: City/County SAN FRANCISCO b. Generating Location: SUNOL PUMP STATION
 c. Address: _____ d. Address: 505 PALM E WAY
SUNOL CA 94580
 e. Phone No.: C/O of SAN FRANCISCO f. Phone No.: (510) 962-2982
 If owner of the generating facility differs from the generator, provide:
 g. Owner's Name: _____ h. Owner's Phone No.: (415) 554-8366

BFI WASTE CODE:

CA	4	0	5	0	8	2	2	9	5
----	---	---	---	---	---	---	---	---	---

 Containers:

5	0	0	8	8
---	---	---	---	---

 Description of Waste: SOL. CONTAMINATED k. Quantity:

--	--	--	--	--

 Units:

--

 No.:

0	1
---	---

 TYPE:

7	-
---	---

W/ PETROLEUM HYDROCARBONS

- TYPE**
 DM - METAL DRUM
 DP - PLASTIC DRUM
 B - BAG
 BA - 6 MIL. PLASTIC BAG or WRAP
 T - TRUCK
 O - OTHER
- UNITS**
 P - POUNDS
 Y - YARDS
 M³ - CUBIC METERS
 Y³ - CUBIC YARDS
 O - OTHER

GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if the waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR Part 268 and is no longer a hazardous waste as defined by 40 CFR Part 261.

Generator Authorized Agent Name: _____ Signature: _____ Shipment Date:

0	5	-	3	9	5
---	---	---	---	---	---

Section II TRANSPORTER (Generator complete a-d, Transporter I complete e-g, Transporter II complete h-n)

TRANSPORTER I
 a. Name: _____
 b. Address: _____
 c. Driver Name/Title: _____
 d. Phone No.: _____ e. Truck No.: _____
 f. Vehicle License No./State: _____
 Acknowledgement of Receipt of Materials.
 Driver Signature: _____ Shipment Date:

--	--	--	--	--

TRANSPORTER II
 h. Name: _____
 i. Address: _____
 j. Driver Name/Title: _____
 k. Phone No.: _____ l. Truck No.: _____
 m. Vehicle License No./State: _____
 Acknowledgement of Receipt of Materials.
 Driver Signature: _____ Shipment Date:

--	--	--	--	--

Section III DESTINATION (Generator completes a-d, destination site completes e-f)

a. Site Name: FEI c. Phone No.: 510-447-1000
 b. Physical Address: 4501 W. JAMES RD d. Mailing Address: _____
LIVERMORE CA 94550
 e. Discrepancy Indication Space: _____

I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.

f. Name of Authorized Agent: _____ Signature: _____ Receipt Date:

--	--	--	--	--

Section IV ASBESTOS (Generator complete a-d, i, g, Operator* completes e.)

a. Operator's* Name: _____ b. Operator's* Phone No.: _____
 c. Operator's* Address: _____
 d. Special Handling Instructions and additional information: _____

OPERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packaged, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and government regulations.



NON-HAZARDOUS SPECIAL WASTE & ASBESTOS MANIFEST

CDM PU
5800-114-00 -
ALB T

If waste is asbestos waste, complete Sections I, II, III and IV.
If waste is NOT asbestos waste, complete only Sections I, II and III.

No. 713574

Section I GENERATOR (Generator completes all of Section I)

a. Generator Name: CITY/COUNTY OF SAN FRANCISCO b. Generating Location: SUNOL PUMP STATION
 c. Address: _____ d. Address: 505 PALMCRE WAY
SUNOL, CA 94586
 e. Phone No.: C/O of SAN FRANCISCO f. Phone No.: (510) 962-3924
 If owner of the generating facility differs from the generator, provide:
 g. Owner's Name: _____ h. Owner's Phone No.: (415) 354-8306

i. BFI WASTE CODE:

CA	405	08	2	295
----	-----	----	---	-----

5	0	0	8	8
---	---	---	---	---

 Containers: _____
 j. Description of Waste: SOIL CONTAMINATED k. Quantity:

--	--	--	--	--

 Units:

--

 No.:

1

 TYPE:

T

of Petroleum Hydrocarbons

TYPE
 DM - METAL DRUM
 DP - PLASTIC DRUM
 B - BAG
 BA - 6 MIL. PLASTIC BAG or WRAP
 T - TRUCK
 O - OTHER

GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if the waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR Part 268 and is no longer a hazardous waste as defined by 40 CFR Part 261.

UNITS
 P - POUNDS
 Y - YARDS
 M³ - CUBIC METERS
 Y³ - CUBIC YARDS
 O - OTHER

Generator Authorized Agent Name: Mark W. Azzo Signature: [Signature] Shipment Date:

0	8	2	3	1	5
---	---	---	---	---	---

Section II TRANSPORTER (Generator complete a-d; Transporter I complete e-g; Transporter II complete h-i)

TRANSPORTER I
 a. Name: LUTEL Trucking
 b. Address: 2212 So. Union Ave
Bakersfield, CA
 c. Driver Name/Title: Lee E. Williams Sr. PRINT/TITLE
 d. Phone No.: (805) 834-9555 e. Truck No.: L5172
 f. Vehicle License No./State: SP37142
 Acknowledgement of Receipt of Materials:
 Driver Signature: [Signature] Shipment Date:

0	8	2	3	1	5
---	---	---	---	---	---

TRANSPORTER II
 h. Name: _____
 i. Address: _____
 j. Driver Name/Title: _____ PRINT/TITLE
 k. Phone No.: _____ l. Truck No.: _____
 m. Vehicle License No./State: _____
 Acknowledgement of Receipt of Materials:
 Driver Signature: _____ Shipment Date:

--	--	--	--	--	--

Section III DESTINATION (Generator completes a-d; destination site completes e-f)

a. Site Name: RFT c. Phone No.: 510-447-4111
 b. Physical Address: 1000 N. Van Ness d. Mailing Address: _____
Palmdale, CA 91350
 Discrepancy Indication Space: _____

I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.

Name of Authorized Agent: _____ Signature: _____ Receipt Date:

--	--	--	--	--	--

Section IV ASBESTOS (Generator complete a-d, f, g; Operator* completes e.)

a. Operator's* Name: _____ b. Operator's* Phone No.: _____
 c. Operator's* Address: _____
 d. Special Handling Instructions and additional information: _____

OPERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and government regulations.

e. Operator's* Name & Title: _____ Print / Type: _____ Operator's* Signature: _____

--	--	--	--	--	--



NON-HAZARDOUS SPECIAL WASTE & ASBESTOS MANIFEST

CDM 10 =

If waste is asbestos waste, complete Sections I, II, III and IV.
If waste is NOT asbestos waste, complete only Sections I, II and III.

No. 713579

Section I GENERATOR (Generator completes all of Section I)

a. Generator Name: UNITED STATES OF AMERICA b. Generating Location: SWAMP ROAD STATION
 c. Address: SF CA d. Address: 505 SWAMP ROAD SWAMP ROAD
 e. Phone No.: 766 f. Phone No.: _____

If owner of the generating facility differs from the generator, provide:
 g. Owner's Name: CO OF SF h. Owner's Phone No.: 415 5548366

i. BFI WASTE CODE:

CA	405	082295	50038
----	-----	--------	-------

 Containers: _____
 j. Description of Waste: Self contained metal k. Quantity:

--	--	--	--	--	--

 Units: Y No.: 1 TYPE: T

- TYPE
 DM - METAL DRUM
 DP - PLASTIC DRUM
 B - BAG
 BA - 6 MIL. PLASTIC BAG or WRAP
 T - TRUCK
 O - OTHER
- UNITS
 P - POUNDS
 Y - YARDS
 M³ - CUBIC METERS
 Y³ - CUBIC YARDS
 O - OTHER

GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if the waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR Part 268 and is no longer a hazardous waste as defined by 40 CFR Part 261.

09 23 75

Generator Authorized Agent Name _____ Signature _____ Shipment Date _____

Section II TRANSPORTER (Generator complete a-d; Transporter I complete e-g; Transporter II complete h-i)

TRANSPORTER I
 a. Name: Luxel Trucking
 b. Address: 2212 S. Island Ave
 c. Driver Name/Title: Gay Taylor
 d. Phone No.: 833-831-5846 e. Truck No.: L-53
 f. Vehicle License No./State: 5127023

TRANSPORTER II
 h. Name: _____
 i. Address: _____
 j. Driver Name/Title: N/A
 k. Phone No.: _____ l. Truck No.: _____
 m. Vehicle License No./State: _____

Acknowledgement of Receipt of Materials.
 n. _____

Driver Signature _____ Shipment Date 09 23 75 Driver Signature _____ Shipment Date _____

Section III DESTINATION (Generator completes a-d; destination site completes e-f)

a. Site Name: BFI c. Phone No.: _____
 b. Physical Address: 4001 WOODLAND BLVD SW SWAMP ROAD d. Mailing Address: PO BOX 1001
 e. Discrepancy Indication Space: _____

I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.

f. Name of Authorized Agent _____ Signature _____ Receipt Date _____

Section IV ASBESTOS (Generator complete a-d, f, g; Operator* completes e.)

a. Operator's* Name: _____ b. Operator's* Phone No.: _____
 c. Operator's* Address: _____
 d. Special Handling Instructions and additional information: _____

OPERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and government regulations.



NON-HAZARDOUS SPECIAL WASTE & ASBESTOS MANIFEST

CDM PD. 5800-114-CD-MGT

If waste is asbestos waste, complete Sections I, II, III and IV.
If waste is NOT asbestos waste, complete only Sections I, II and III.

No. 713580

Section I GENERATOR (Generator completes all of Section I)

a. Generator Name: City of Seattle SPT Floor b. Generating Location: Street Pump Station
 c. Address: SP Floor d. Address: 505 Franklin Ave
Seattle WA 98104
 e. Phone No.: 415 554 2366 f. Phone No.: _____
 If owner of the generating facility differs from the generator, provide:
 g. Owner's Name: City of Seattle h. Owner's Phone No.: 415 554 2366

i. BFI WASTE CODE

CA	405	08	23	95
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500	88
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 Containers
 Description of Waste: Lead paint removed from wall k. Quantity

		18	
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 Units

Y

 No.

01

 TYPE

T

 Description of Waste: Removal of lead paint

- TYPE
 DM - METAL DRUM
 DP - PLASTIC DRUM
 B - BAG
 BA - 6 MIL. PLASTIC BAG or WRAP
 T - TRUCK
 O - OTHER
- UNITS
 P - POUNDS
 Y - YARDS
 M³ - CUBIC METERS
 Y³ - CUBIC YARDS
 O - OTHER

GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if the waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR Part 268 and is no longer a hazardous waste as defined by 40 CFR Part 261.

Generator Authorized Agent Name _____ Signature _____ Shipment Date

08	23	95
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Section II TRANSPORTER (Generator complete a-d, Transporter I complete e-g, Transporter II complete h-i)

TRANSPORTER I
 a. Name: LITTEL TRACKING
 b. Address: 2212 SO. UNION AVE
BAKERSFIELD CA 93317
 c. Driver Name/Title: LEE B. LIKENS SR.
PRINT/TITLE
 d. Phone No.: (205) 34-9134 e. Truck No.: L-7117-21
 Vehicle License No./State: SP27143
 Acknowledgement of Receipt of Materials.
 Driver Signature _____ Shipment Date

08	23	95
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TRANSPORTER II
 h. Name: _____
 i. Address: _____
 j. Driver Name/Title: _____
PRINT/TITLE
 k. Phone No.: _____ l. Truck No.: _____
 m. Vehicle License No./State: _____
 Acknowledgement of Receipt of Materials.
 Driver Signature _____ Shipment Date

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Section III DESTINATION (Generator completes a-d, destination site completes e-f)

a. Site Name: FBI c. Phone No.: _____
 b. Physical Address: 4001 North Union Blvd d. Mailing Address: _____
Seattle WA 98104
 e. Discrepancy Indication Space: _____

I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.

f. Name of Authorized Agent _____ Signature _____ Receipt Date

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Section IV ASBESTOS (Generator complete a-d, f, g, Operator* completes e.)

a. Operator's* Name: _____ b. Operator's* Phone No.: _____
 c. Operator's* Address: _____
 d. Special Handling Instructions and additional information: _____

OPERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and government regulations.

e. Operator's* Name & Title: _____