



AEGIS ENVIRONMENTAL, INC.

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Date: October 2, 1992 Project # 91-001

Subject/Title:
Final Reports for previous activity at Haber Oil
1401 Grand Ave., San Leandro, CA

TO: Alameda County Environment/Health Dept.

ATTENTION: Mr. Robert Weston
80 Swan Way, Suite 210
Oakland, California 94621

We Are Sending: Enclosed Under Separate Cover Via _____

The Following: Draft Report / Letter Regulatory Correspondance Figures/Maps/Tables
 Final Report / Letter Laboratory Analytical Results Statement of Qualifications
 Cost Estimate Contract _____

These Are Transmitted As Checked Below:

For Approval For Review And Comment For Your Information
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Comments: Enclosed are four (4) reports: 2 work plans dated April 8, 1992 and August 24, 1992; a "Soil Boring Results Report" dated June 10, 1991; and a "Initial Subsurface Investigation Results Report" dated June 23, 1992. If you have any questions please call (916) 782-2110. Thank you.

Signed: Michael Kottel

(1) Original, (2) Central File (Correspondence), (3) Project Manager



AEGIS ENVIRONMENTAL, INC.

INITIAL SUBSURFACE INVESTIGATION RESULTS REPORT

**ARCO Service Station
1401 Grand Avenue
San Leandro, California**

Aegis Project No. 91-001

June 23, 1992

**Prepared By:
AEGIS ENVIRONMENTAL INC.
1050 Melody Lane, Suite 160
Roseville, California 95678
(916) 782-2110**

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TABLE OF CONTENTS

1.0	INTRODUCTION	1
1.1	Purpose	1
1.2	Scope	1
2.0	BACKGROUND	2
2.1	Site Description	2
2.2	Previous Investigation	2
2.3	Adjacent Land Uses	3
2.4	Utility Locations	3
2.5	Generalized Geology and Hydrogeology	3
3.0	RESULTS	3
3.1	Soil Boring and Sampling	3
3.2	Analytical Results: Soil	4
3.3	Drill Cuttings and Monitoring Well Rinse Water	4
4.0	SUMMARY OF FINDINGS	4
4.1	Distribution of Petroleum Hydrocarbons: Soil	4
5.0	REMARKS/SIGNATURES	5

FIGURES

FIGURE 1 SITE LOCATION MAP
FIGURE 2 SITE MAP WITH SOIL BORING LOCATIONS
FIGURE 3A CROSS-SECTION A-A'
FIGURE 3B CROSS-SECTION B-B'
FIGURE 4 DISTRIBUTION MAP OF PETROLEUM HYDROCARBONS
IN SOIL

TABLES

TABLE 1 ANALYTICAL RESULTS: SOIL

APPENDICES

APPENDIX A STANDARD OPERATING PROCEDURES
APPENDIX B SOIL BORING LOGS
APPENDIX C LABORATORY ANALYTICAL REPORTS AND
CHAIN OF CUSTODY FORMS: SOIL

1.0 INTRODUCTION

This report documents the results of the limited subsurface investigation conducted by Aegis Environmental, Inc. (Aegis), at 1401 Grand Avenue in San Leandro, California (Figure 1). The investigation was in response to reported past surface spills during gasoline deliveries by tanker truck.

1.1 Purpose

The purpose of the investigation was to further:

- characterize the site's shallow subsurface directly beneath the underground storage tank (UST), including soil and hydrogeologic conditions; and,
- assess the presence of petroleum hydrocarbons, if any, in the soil and/or groundwater beneath the site.

1.2 Scope

The scope of work completed at the site was performed according to the Aegis standard operating procedures included in Appendix A, and includes the following:

- On April 14, 1992, three angled soil borings, B-5 through B-7, were drilled to approximately 50 vertical feet below surface, logged, and sampled at the locations shown on Figure 2.
- Based on the results of field observations and measurements, twenty-two soil samples were selected and submitted to a state-certified laboratory for analysis.
- Soil borings B-5 through B-7 were backfilled with a mixture of bentonite-cement slurry from total drilled depth to ground surface.
- Soil cuttings from the soil borings were placed on and covered by plastic sheeting. Two soil samples were collected from the stockpiled soil and submitted to a state-certified laboratory for analysis.

2.0 BACKGROUND

2.1 Site Description

The site is located at 1401 Grand Avenue in San Leandro, California (Figure 1). The site is located within a commercial and residential section of San Leandro, and is an active convenience market and service station that retails unleaded gasoline. The current property owner is Mr. Manmohan Chopra, who leased the station between July 1986 and March 1988, purchased the station in March 1988, and operated the site until August 1990. The current lessee is Mr. Jay Anast who has been operating the site since August 1990.

2.2 Previous Investigation

- On April 24, 1991, a limited subsurface investigation ("Soil Boring Results Report," dated June 10, 1991), was performed by Aegis. The investigation included drilling four soil borings, with the locations in close proximity to the UST basin. The soil borings were drilled to a vertical depth of approximately 40 feet below existing grade. Soil samples were collected and screened with a portable photoionization detector (PID) according to methods described in Appendix A. Organic vapors were detected in the soil samples. The PID readings ranged from 0 to 600 parts-per-million (ppm). Samples from three of the four borings (SB-1, SB-2, and SB-3) yielded PID readings at or above 100 ppm.
- Soil samples from the soil borings were submitted to an analytical laboratory for chemical analysis. A state-certified laboratory analyzed nine soil samples for total petroleum hydrocarbons (TPH), as gasoline, diesel #2, jet fuel, kerosene, Stoddard solvent (or mineral spirits) and benzene, toluene, ethylbenzene, and total xylenes (BTEX), ethylene dibromide, 1,2-dichloroethylene and total lead. Concentrations of TPH in the soil samples ranged from below detection limits to 66 ppm.
- The stockpile of drill cuttings was sampled for characterization prior to disposal. These soil samples were specifically identified as SS-1A, SS-1B, SS-1C, and SS-1D. The samples were composited into one sample at the laboratory. The soil cuttings were disposed of at Browning-Ferris Industries Waste Systems landfill in Livermore, California.
- Groundwater was not encountered during the drilling operations conducted on April 24, 1991.

2.3 Adjacent Land Uses

The site is located within a commercial/residential district adjacent to State Highway 580. There appears to be no adjacent sites with a history of distributing or storing petroleum products. The surface of the site is predominantly paved either by concrete or asphalt. The site is triangular in shape with a base (east-west dimension) of approximately 135 feet and a length (north-south dimension) of approximately 150 feet (Figure 3).

2.4 Utility Locations

Norcal Geophysical Consultants, Inc., conducted a ground penetrating radar survey on March 25, 1992, at the subject site. The survey located the excavation housing the UST and product/vent, water, and electrical lines. The site currently retails unleaded gasoline and has four UST, including two 7,500-gallon gasoline storage tanks, one 6,000-gallon gasoline storage tank, and one waste-oil storage tank of unknown capacity (Figure 2).

2.5 Generalized Geology and Hydrogeology

The bedrock beneath the site is indicated on the "Geologic Map of California," dated 1975, as sandstone. The sandstone belongs to the Franciscan Formation (KJf), of Jurassic-Cretaceous age. Within the vicinity of the site, the bedrock unit reportedly varies in thickness from 26 to 35 feet. The soils and alluvial materials underlying the site include clay, silty clay, and sand.

Site drainage is mainly to the southwest. The site's vicinity is part of the San Leandro Creek watershed. The nearest stream, San Leandro Creek, is 0.2-miles to the north. On the basis of soil boring data, the estimated depth to groundwater and direction of flow is approximately 43.5 feet below surface and to the south, respectively.

3.0 RESULTS

3.1 Soil Boring and Sampling

Soil borings B-5 through B-7 were drilled to approximately 49 feet true vertical depth below surface at the locations shown on Figure 2. The borings were drilled at an angle of 26 to 28 degrees from vertical, using 6-inch-diameter hollow-stem augers.

During drilling, the subsurface soils and alluvial materials of the unsaturated (vadose) zone were sampled at 5-foot intervals. Logs of the soil borings were prepared based on field descriptions, and are included as Appendix B. Soil samples were screened in the field, using a PID. Results of PID screening are indicated on the cross-sections and boring logs (Figures 3A and 3B; Appendix B).

Figure 2 shows locations for cross-sections A-A' and B-B'. Figures 3A and 3B are generalized cross-sections A-A' and B-B'. As shown on the cross-sections, saturated soil horizons were first encountered at approximately 42-1/2 feet below surface.

3.2 Analytical Results: Soil

A total of twenty-two soil samples were analyzed by NET Pacific Laboratory in Santa Rosa, California, for concentrations of: a) TPH, as gasoline, by GC/FID Method 5030; and b) BTEX by EPA Method 8240. In addition, two soil samples from the soil stockpiles (SS1 and SS2) were analyzed for total lead by EPA Method 7421.

The soil sample analytical results for gasoline constituents are summarized in Table 1. The soil sample analytical reports and chain-of-custody forms are included in Appendix C. Concentrations of benzene and TPH, as gasoline, are indicated on the cross-sections, and summarized in Table 3.

Analytical results indicate concentrations of TPH, as gasoline, exceeding 500 ppm in four soil samples collected from soil borings B-5, B-6, and B-7. The highest reported concentration of TPH, as gasoline (500 ppm), and benzene (11 ppm) was found in the soil sample (B-7) collected at 40 feet below surface in boring B-7.

3.3 Drill Cuttings and Monitoring Well Rinse Water

All drill cuttings were stored temporarily on site, between layers of plastic sheeting, pending laboratory analysis of the boring samples and samples collected from the stockpile. Following receipt of the laboratory results, the drill cuttings will be transported, by a licensed hauler, from the site to an appropriate disposal facility.

Rinsewater generated during the drilling and decontamination of the augers is stored temporarily on site in DOT-approved 55-gallon drums, pending laboratory analysis of the boring samples. Following receipt of the laboratory results, the water will be transported from the subject site to an appropriate disposal facility.

4.0 SUMMARY OF FINDINGS

4.1 Distribution of Petroleum Hydrocarbons: Soil

Figure 4 indicates the depths of concentrations of TPH and benzene in soil between 11 and 55 feet below grade. As shown on the figure, the highest concentrations of petroleum hydrocarbons in soil detected to date are located approximately 40 to 45 feet below surface. Due to the lack of data, the lateral extent of petroleum hydrocarbon concentrations are unknown at this time.

5.0 REMARKS/SIGNATURES

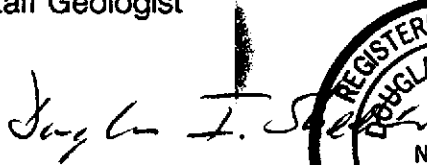
The information contained within this report reflects our professional opinions, and was developed in accordance with currently available information and accepted geologic, hydrogeologic, and engineering practices at this time and for this site. This report has been prepared solely for the use Benito Tank Lines. Any reliance on this report by parties other than Federated Insurance Company shall be at such parties' sole risk.

The work described in this report was conducted under the direct supervision of the professional geologist, registered with the State of California, whose signature appears below.

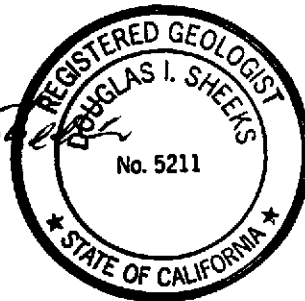
AEGIS ENVIRONMENTAL, INC.



Michael Kitko
Staff Geologist



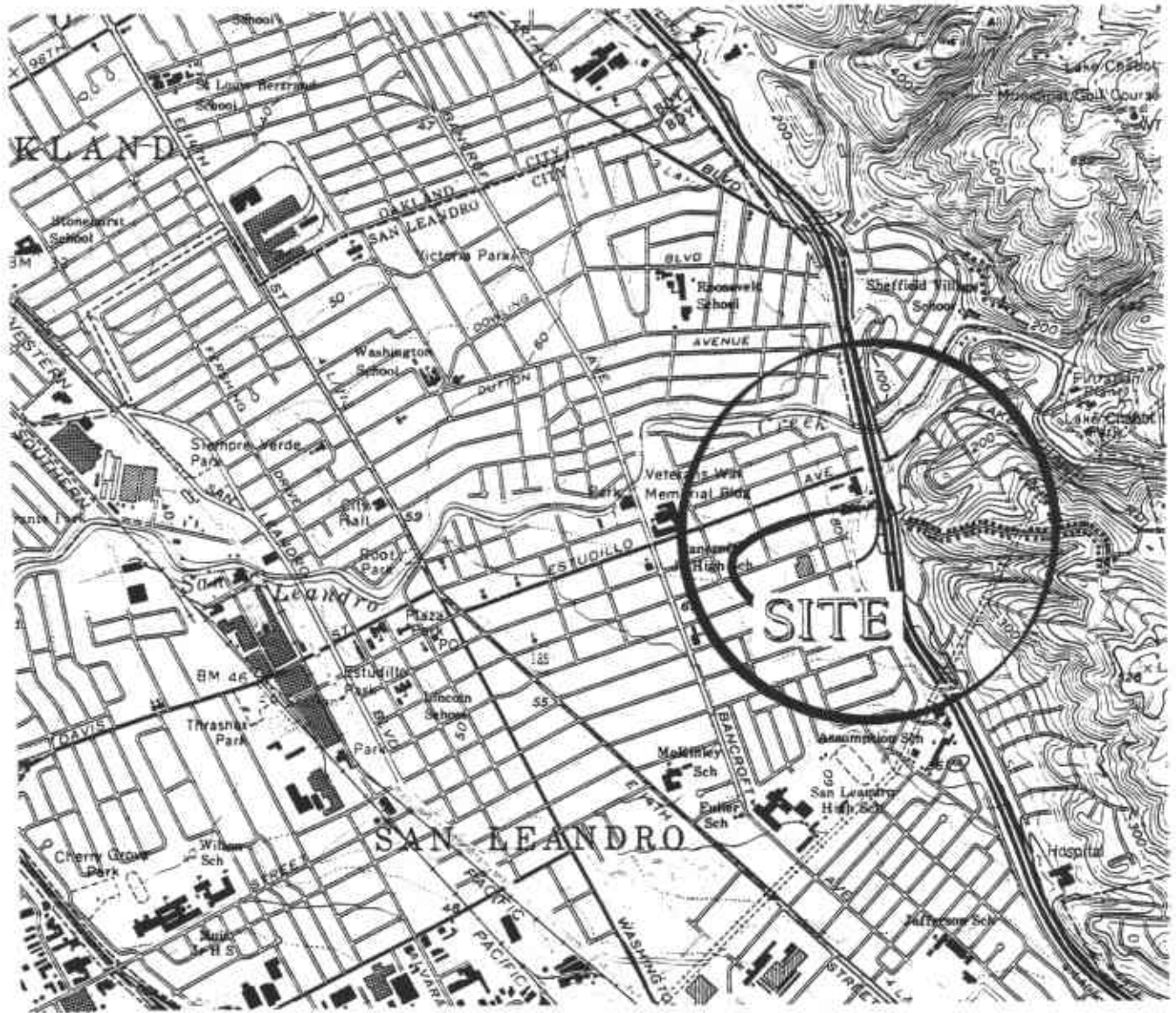
Douglas I. Sheeks
Senior Geologist
CRG No. 5211



6-23-92

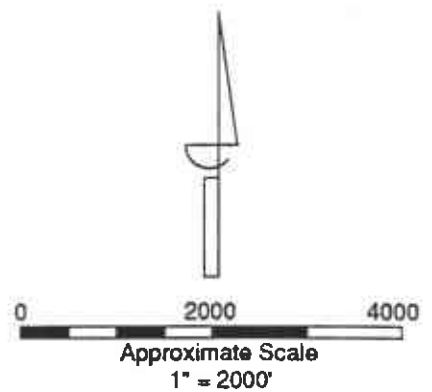
Date

MK/DIS/law



GENERAL NOTES:

BASE MAP FROM USGS
7.5 MINUTE TOPOGRAPHIC
SAN LEANDRO, CALIF.



AEGIS ENVIRONMENTAL, INC.

SITE LOCATION MAP

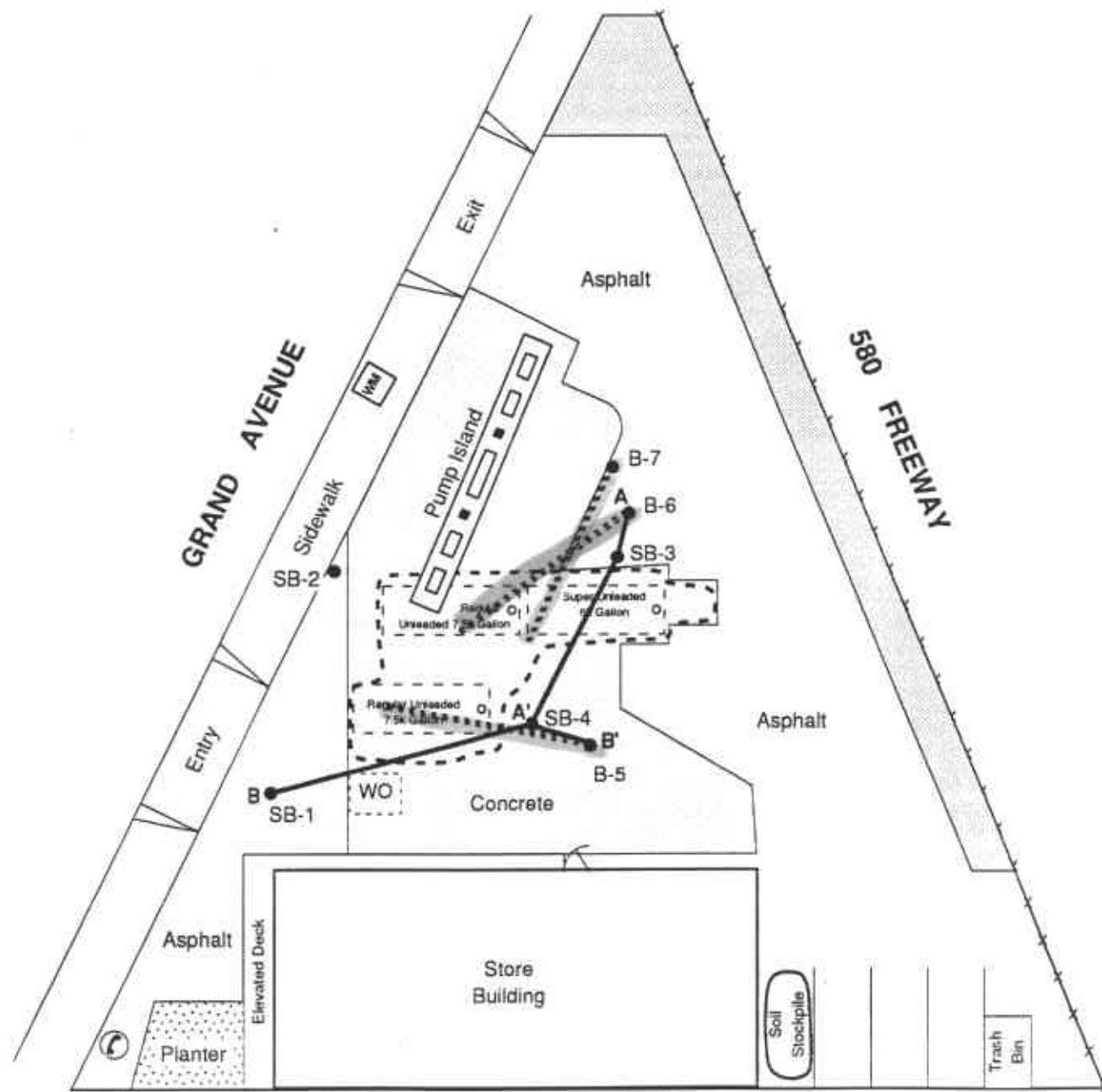
FIGURE

1

DRAWN BY: Ed Bernard	DATE: June 10, 1992
REVISED BY:	DATE:
REVIEWED BY:	DATE:

Haber Oil
1401 Grand Avenue
San Leandro, CA

PROJECT NUMBER:
10-91001



LEGEND

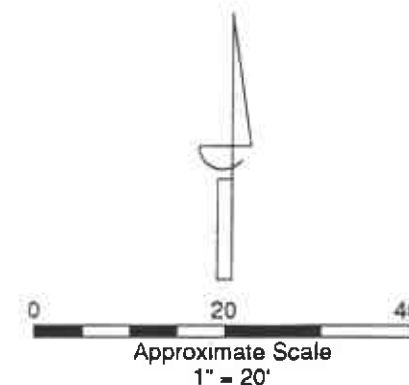
- 7.5k 7500 Gallon Underground Storage Tank
- 6k 6000 Gallon Underground Storage Tank
- WM Water Meter (East Bay Municipal Utility District)
- WO Waste Oil Tank
- ☎ Telephone Booth
- x—x— Fence
-● Soil Boring Locations
- A—A' Cross Section Location

* borings B-5, -6, -7 are slant borings

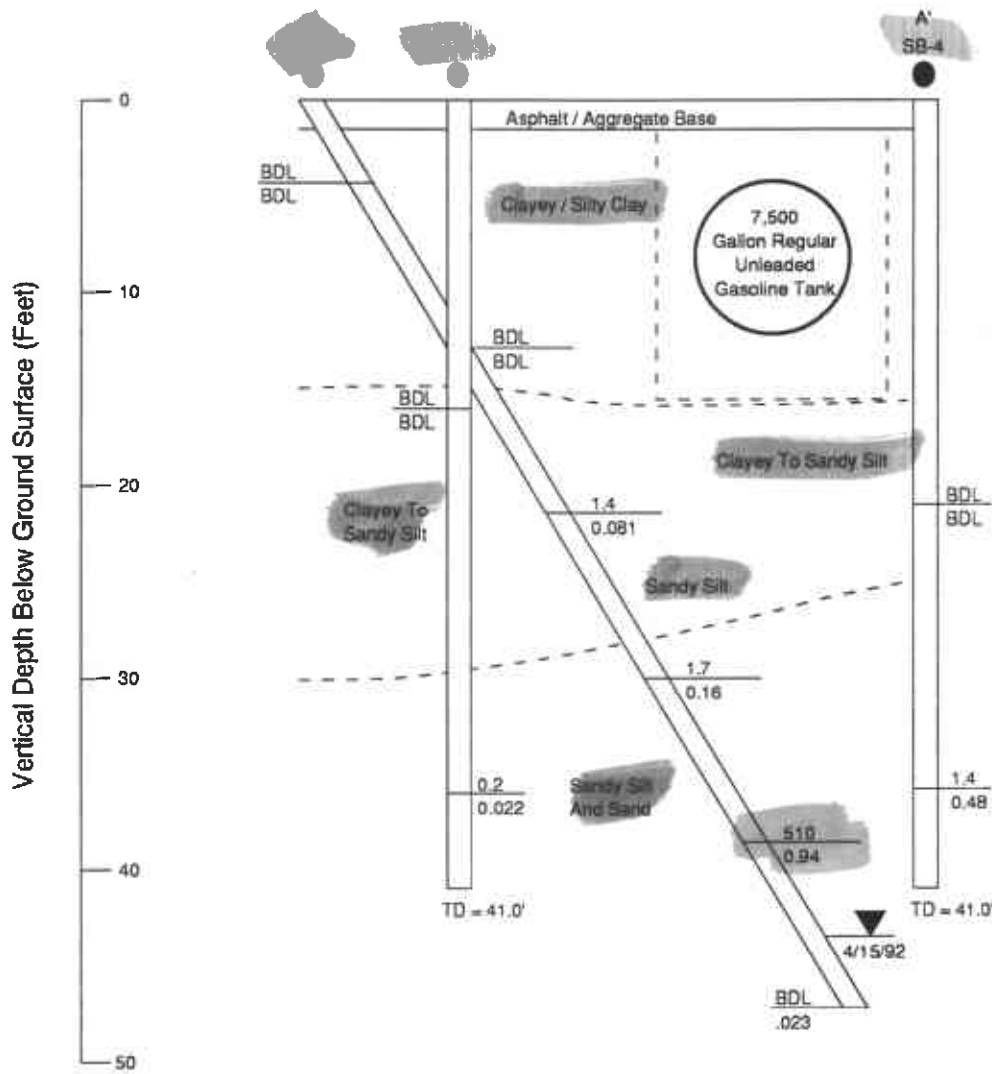
NOTES

Site Sketch After GPR Location Map
By NORCAL Geophysical Consultants
(4/92)

All Locations Are Approximate

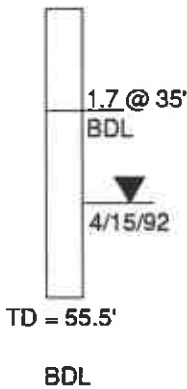


		SITE MAP WITH SOIL BORING LOCATIONS	FIGURE 2
DRAWN BY: D. Hada	DATE: April 18, 1992		
REVISED BY: Ed Bernard	DATE: June 23, 1992		
REVIEWED BY:	DATE:		



Boring Angle Is Projected Apparent Angle

LEGEND



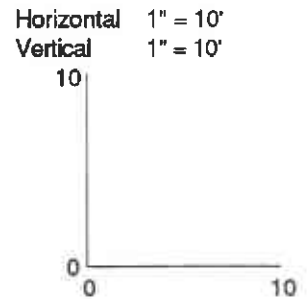
TPH As Gasoline, Concentration
In ppm (parts per million), Drilled Depth
Benzene, Concentration In ppm
(parts per million)

Date And Location Of First Water Encountered,
April 15, 1992 At A Depth Of 42.2 Feet Below
Ground Surface

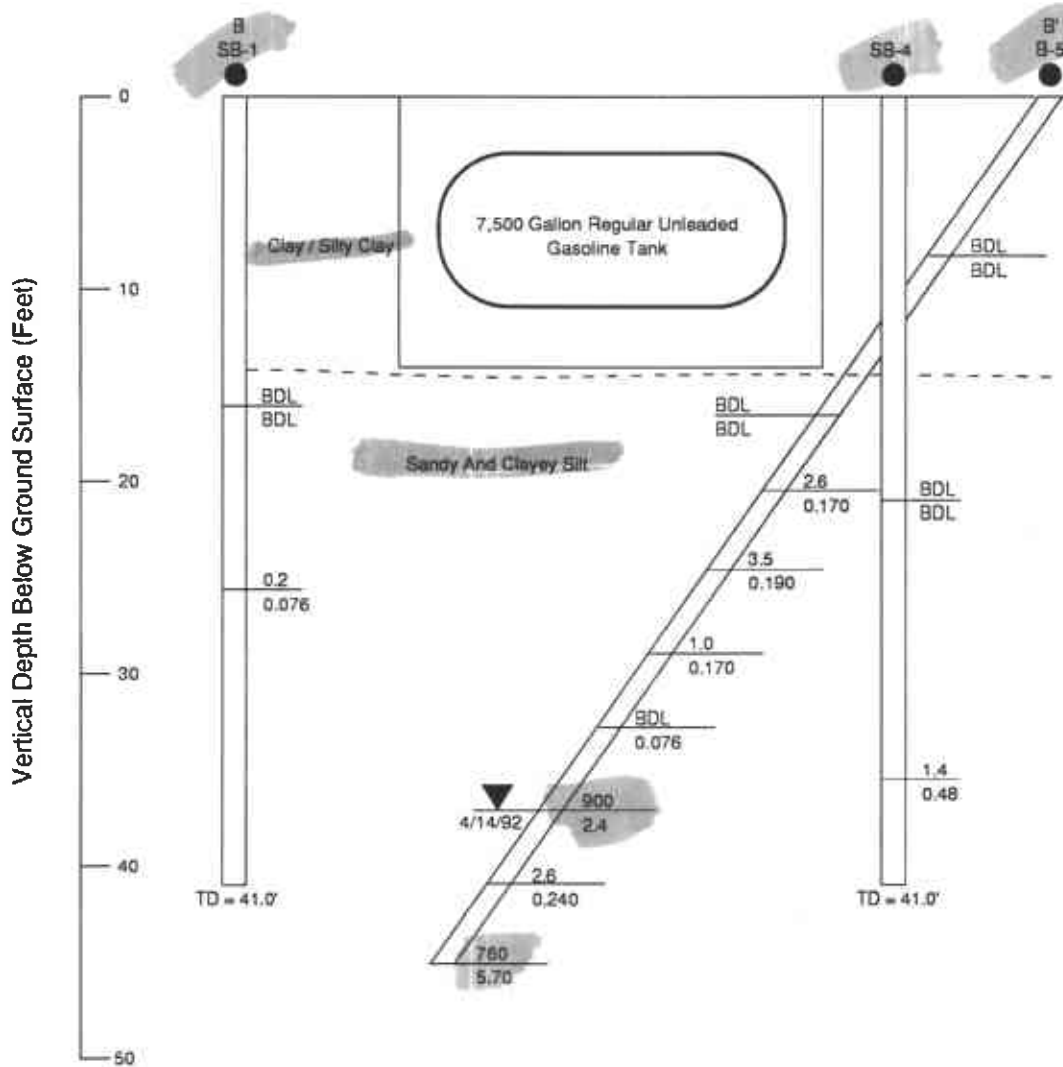
Total Depth

Below Detection Limits

SCALE

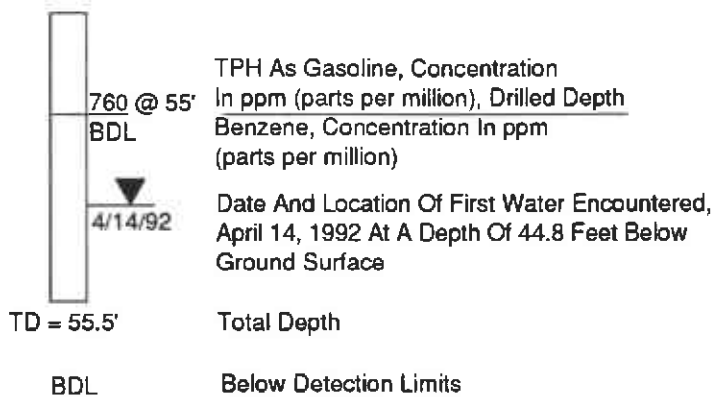


	<p>CROSS SECTION A-A'</p>		<p>FIGURE 3A</p>
	<p>Haber Oil 1401 Grand Avenue San Leandro, CA</p>		
	<p>DRAWN BY: Ed Bernard REVISOR BY: Ed Bernard REVIEWED BY:</p>	<p>DATE: May 12, 1992 DATE: June 23, 1992 DATE:</p>	

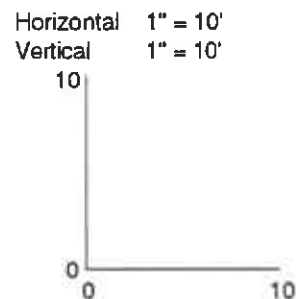


Boring Angle Is Projected Apparent Angle

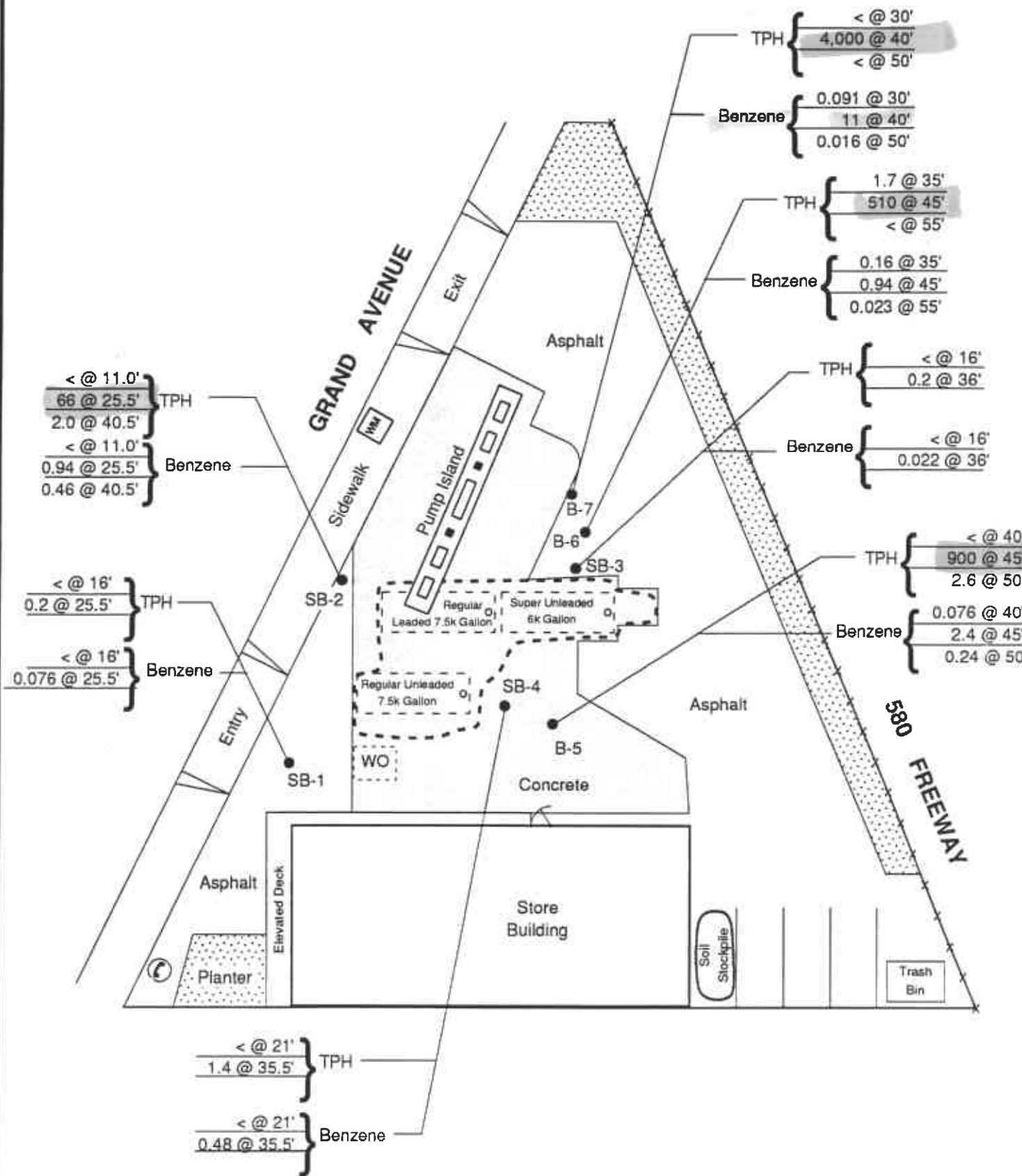
LEGEND



SCALE



	AEGIS ENVIRONMENTAL, INC.	CROSS SECTION B - B' Haber Oil 1401 Grand Avenue San Leandro, CA	FIGURE 3B	
	DRAWN BY: Ed Bernard		DATE: May 12, 1992	PROJECT NUMBER: 10-91001
	REVISED BY: Ed Bernard		DATE: June 23, 1992	
REVIEWED BY:	DATE:			

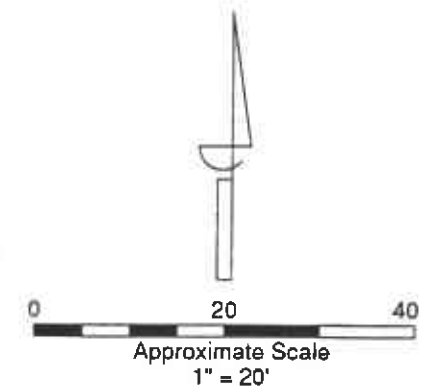


LEGEND

- | | | |
|--------------|-----------|---|
| < @ 21' | } TPH | Concentration TPH, Results In ppm (Parts per million) |
| 1.4 @ 35.5' | | |
| < @ 21' | } Benzene | Concentration Of Benzene in ppm (Parts per million) |
| 0.48 @ 35.5' | | |
- < Below Detection Limits
- NA Not Analyzed
- 7.5k 7500 Gallon Underground Storage Tank
- 6k 6000 Gallon Underground Storage Tank
- WM Water Meter (East Bay Municipal Utility District)
- WO Waste Oil Tank
- ☎ Telephone Booth
- x — x — Fence
- Soil Boring Locations

NOTES

Site Sketch After GPR Location Map
 By NORCAL Geophysical Consultants
 (4/92)
 All Locations Are Approximate



		DISTRIBUTION MAP OF PETROLEUM HYDROCARBONS IN SOIL	FIGURE 4
DRAWN BY: Ed Bernard REVISOR BY: Ed Bernard REVIEWED BY:	DATE: June 3, 1992 DATE: June 23, 1992 DATE:		

TABLE 1
ANALYTICAL RESULTS: SOIL
APRIL 14, 1992
HABER OIL
1401 GRAND AVENUE, SAN LEANDRO, CALIFORNIA
(All results in parts-per-million)

Sample ID	Sample Depth (Feet)	Total Petroleum Hydrocarbons	Aromatic Volatile Organics				Lead
			Gasoline	Benzene	Toluene	Ethyl-benzene	
SB-1-3	16.0	<	<	<	<	<	<
SB-1-7	25.5	0.2	0.076	0.003	0.004	0.015	ND
SB-2-2	11.0	<	<	<	<	<	<
SB-2-5	25.5	65	0.94	3.8	1.3	8.7	3
SB-2-8	40.5	2.0	0.46	0.30	0.049	0.24	<
SB-3-3	16.0	<	<	<	<	<	<
SB-3-7	36.0	0.2	0.022	0.004	0.004	0.033	<
SB-4-4	21.0	ND	<	<	ND	<	<
SB-4-7	35.5	1.4	0.48	0.003	0.021	0.007	<
SS-1A, 1B, 1C, 1D	1.0	0.7	0.002	<	<	0.005	0.06*
B5 at 10 feet	10	<	<	<	<	<	---
B5 at 20 feet	20	<	<	<	<	<	---
B5 at 25 feet	25	2.8	0.17	<	0.075	0.059	---
B5 at 30 feet	30	3.5	0.18	0.0037	0.099	0.12	---
B5 at 35 feet	35	2.8	0.17	0.067	0.021	0.067	---
B5 at 40 feet	40	<	0.076	0.040	0.0046	0.018	---
B5 at 50 feet	50 (37')	900	2.4	18	8.9	53	<0.2 ¹
B6 at 5 feet	5	760	5.7	24	10	53	<0.2 ²
B6 at 15 feet	15	<	<	0.006	<	0.0078	---
B6 at 25 feet	25	<	<	<	<	<	---
B6 at 35 feet	35	1.4	0.09	0.0024	0.0055	0.0087	---
B6 at 45 feet	45 (39')	1.7	0.18	0.022	0.0065	0.020	---
B6 at 55 feet	55	510	0.94	0.47	2.2	8.6	---
B7 at 10 feet	10	<	0.023	0.0083	0.0084	0.029	---
B7 at 20 feet	20	<	<	<	<	<	---
B7 at 30 feet	30	<	0.001	<	<	<	---
B7 at 50 feet	40 (35')	4,000	11	0.0051	0.0078	<	---
SS-1	Soil	1820	0.018	<	<	<	0.044 ²
SS-2	Stockpile	180	<	<	0.15	0.9	0.061 ²

angle boring
angle boring
angle boring

NOTES: < = Below Practical Quantitation Reporting Limits per "Tri-Regional Board Staff Recommendations for Preliminary Evaluation and Investigation of Underground Tank Sites" (August 10, 1990). (PQL for BTEX = 0.005 ppm, TPH, as gasoline and diesel = 1.0 ppm).

<< = Below the indicated detection limit as labeled in the analytical laboratory results reports.

ND = Not detected.

— = Not analyzed.

1 = Total lead.

2 = Soluble lead (California Waste Extraction Test).

Analytical methods are listed in the attached laboratory reports.

APPENDIX A
STANDARD OPERATING PROCEDURES

AEGIS ENVIRONMENTAL, INC.
STANDARD OPERATING PROCEDURES
RE: SOIL BORING SAMPLING
SOP-1

During drilling, soil samples for chemical analysis are collected in thin-walled brass tubes, of varying diameters and lengths (e.g., 4 or 6 inches long by 2 inches outside-diameter). Three or four of the selected tubes, plus a spacer tube, are set in an 18-inch long split-barrel sampler of the appropriate inside-diameter.

Where possible, the split-barrel sampler is driven its entire length either hydraulically or using a 140-pound drop hammer. The sampler is extracted from the borehole and the brass tubes, containing the soil samples, are removed. Upon removal from the sampler, the selected brass tubes are either immediately trimmed and capped with aluminum foil or Teflon sheets and plastic caps or the samples are extruded from the tubes and sealed within other appropriate cleaned sample containers (e.g., glass jar). The samples are then hermetically sealed, labeled, and refrigerated for delivery, under strict chain-of-custody, to the analytical laboratory. These procedures minimize the potential for cross-contamination and volatilization of volatile organic compounds (VOC) prior to chemical analysis.

One soil sample collected at each sampling interval is analyzed in the field using either a portable photoionization detector (PID), flame ionization detector, organic vapor analyzer, catalytic gas detector or an explosimeter. The purpose of this field analysis is to qualitatively determine the presence or absence of hydrocarbons, and the samples to be analyzed at the laboratory. The soil sample is sealed in either a brass tube, glass jar or plastic bag to allow for some volatilization of VOC. The PID is then used to measure the concentrations of hydrocarbons within the containers's headspace. The data is recorded on both field notes and the boring logs at the depth corresponding to the sampling point.

Other soil samples are collected to document the soil and/or stratigraphic profile beneath the project site, and estimate the relative permeability of the subsurface materials. All drilling and sampling equipment are either steam-cleaned or washed in solution and double-rinsed in deionized water prior to use at each site and between boreholes to minimize the potential for cross-contamination.

AEGIS ENVIRONMENTAL, INC.
STANDARD OPERATING PROCEDURES
RE: SOIL CLASSIFICATION
SOP-3

Soil samples are classified according to the Unified Soil Classification System. Representative portions of the samples may be shipped under strict chain-of-custody to an analytical laboratory for further examination and verification of the in-field classification, and analysis of soil mechanical and/or petrophysical properties. The soil types are indicated on logs of either excavations or borings together with depths corresponding to the sampling points, and other pertinent information.

AEGIS ENVIRONMENTAL, INC.
STANDARD OPERATING PROCEDURES
RE: SAMPLE IDENTIFICATION AND CHAIN-OF-CUSTODY PROCEDURES
SOP-4

Sample identification and chain-of-custody procedures ensure sample integrity, and document sample possession from the time of collection to its ultimate disposal. Each sample container submitted for analysis is labeled to identify the job number, date, time of sample collection, a sample number unique to the sample, any in-field measurements made, sampling methodology, name(s) of on site personnel and any other pertinent field observations also recorded on the field excavation or boring log.

Chain-of-custody forms are used to record possession of the sample from time of collection to its arrival at the laboratory. During shipment, the person with custody of the samples will relinquish them to the next person by signing the chain-of-custody form(s) and noting the date and time. The sample-control officer at the laboratory will verify sample integrity, correct preservation, confirm collection in the proper container(s) and ensure adequate volume for analysis.

If these conditions are met, the samples will be assigned unique laboratory log numbers for identification throughout analysis and reporting. The log numbers will be recorded on the chain-of-custody forms and in the legally-required log book maintained in the laboratory. The sample description, date received, client's name, and any other relevant information will also be recorded.

AEGIS ENVIRONMENTAL, INC.
STANDARD OPERATING PROCEDURES
RE: LABORATORY ANALYTICAL QUALITY ASSURANCE AND CONTROL
SOP-5

In addition to routine instrument calibration, replicates, spikes, blanks, spiked blanks, and certified reference materials are routinely analyzed at methods specific frequencies to monitor precision and bias. Additional components of the laboratory Quality Assurance/Quality Control program include:

1. Participation in state and federal laboratory accreditation/certification programs;
2. Participation in both U.S. EPA Performance Evaluation studies (WS and WP studies) and inter-laboratory performance evaluation programs;
3. Standard operating procedures describing routine and period instrument maintenance;
4. "Out-of-Control"/Corrective Action documentation procedures; and,
5. Multi-level review of raw data and client reports.

APPENDIX B
SOIL BORING LOGS

PROJECT NAME/LOCATION: 1401 Grand Avenue San Leandro, California	PROJECT NUMBER: 91-001	BORING NUMBER: 91-1	SHEET 1 OF 2
	CONTRACTOR: West Hazmat Drilling		DRILLING METHOD: 8" H.S.A.
	DRILLER: Scott Krueger		DRILLING RIG: CME-75
LAND OWNER: Mr. Manmohan Chopra	START DATE: 04/24/91 TIME: 10:00 a.m.	COMPLETED: 04/24/91 TIME: 10:40 a.m.	

STAY MPE L E	SN A U M M P B L E E R	BC L O O U W N T L S E T	SI A N M T P F L F S E T	SR A E M C P O L V E	DEPTH (ft.)	DESCRIPTION OF MATERIALS AND CONDITIONS	PID (ppm)	GENERAL OBSERVATION NOTES
					0	AC/AB; asphalt surface, AB between-0.5' - 1.0'----- SILTY CLAY; dark brown, moist (CL)	0	No odor
CAM	SB1 -1	15/ 21/ 25	5.0- 6.5	16/ 18	5	CLAY; drk brown, moist (CL)	0	No odor
CAM	SB1 -2	13/ 14/ 15	10.0- 11.5	15/ 18	10	SILTY CLAY; medium brown, moist, very fine-grained sand-component-(CL) - - - -	0	No odor
CAM	SB1 -3	8/ 12/ 15	15.0- 16.5	15/ 18	15	CLAYEY SILT; medium brown, moist (ML)	0	No odor
CAM	SB1 -4	9/ 13/ 15	20.0- 21.5	16/ 18	20	CLAYEY SILT; medium brown, moist (ML)	0	No odor
CAM	SB1 -5	11/ 16/ 18	25.0- 26.5	16/ 18	25	SILT; light brown, moist, very fine-grained sand fraction increasing (ML)	0	No odor
CAM	SB1 -6	11/ 13/ 15	30.0- 31.5	15/ 18	30	SANDY SILT; grayish-brown, moist, poorly graded, very fine-grained sand, pervas- ive throughout sample (ML)	50	Slight gas odor

Field Notes:	Aegis Environmental Consultants
Logged By: Robert Warner	

PROJECT NAME/LOCATION: 1401 Grand Avenue San Leandro, California	PROJECT NUMBER: 91-001	BORING NUMBER: SB-1	SHEET 2 OF 2
	CONTRACTOR: West Hazmat Drilling		DRILLING METHOD: 8" H.S.A.
	DRILLER: Scott Krueger		DRILLING RIG: CME-75
LAND OWNER: Mr. Manmohan Chopra	START DATE: 04/24/91 TIME: 10:40 a.m.	COMPLETED: 04/24/91 TIME: 11:00 a.m.	

STAY MPE L E	SN AU M P B L E R	BC LO OU WN TL S E T	SI LO AN MT TF E T	SR AE MC PO LV E	DEPTH (ft.)	DESCRIPTION OF MATERIALS AND CONDITIONS	PID (ppm)	GENERAL OBSERVATION NOTES
CAM	SB1 -6	11/ 13/ 15	30.0- 31.5	15/ 18	30	SANDY SILT; grayish-brown, poorly graded, very fine- grained sand, pervasive throughout sample (ML)	50	Slight gas odor
CAM	SB1 -7	45/ 50/ R = 5"	35.0- 36.0	12/ 18	35	SILT; greenish-gray, moist, relict sand structure vis- ible, apparently in-situ chem. weathered Franciscan Formation serpentine (ML)	100	Moderate gas odor
					40	SILT; greenish-gray, moist, slightly cemented, same as above (ML) ----- EOB; end of boring at 41'	20	Slight gas odor
					45			
					50			
					55			
					60			

Field Notes:	Aegis Environmental Consultants
	Logged By: Robert Warner

PROJECT NAME/LOCATION: 1401 Grand Avenue San Leandro, California	PROJECT NUMBER: 91-001	BORING NUMBER: 91-001	SHEET 1 OF 2
	CONTRACTOR: West Hazmat Drilling		DRILLING METHOD: 8" H.S.A.
	DRILLER: Scott Krueger		DRILLING RIG: CME-75
LAND OWNER: Mr. Manmohan Chopra		START DATE: 04/24/91 TIME: 8:45 a.m.	COMPLETED: 04/24/91 TIME: 9:30 a.m.

S A M P L E	T Y P E	S N A U M B E R	B C L O U M B E R	S I L T F R A C T I O N	S R A E M C P O L V E	DEPTH (ft.)	DESCRIPTION OF MATERIALS AND CONDITIONS	PID (ppm)	GENERAL OBSERVATION NOTES
CAM	SB2	11/ -1	5.0- 6.5	16/ 18	0	CONCRETE; aggregate base between 0.5 - 1.0'	20	Slight gas odor	
		15/ 25			5	SILTY CLAY; brown, moist, slight odor immediately below concrete driveway (CL) CLAY; dark brown; moist (CL)	20	Slight gas odor	
CAM	SB2	14/ -2	10.0- 11.5	15/ 18	10	SILTY CLAY; dark brown, moist, moderate plasticity ----- (CL)	2	No odor	
CAM	SB2	11/ -3	15.0- 16.5	16/ 18	15	CLAYEY SILT; grayish-brown, moist, very fine-grained, sand fraction (ML)	0	No odor	
CAM	SB2	11/ -4	20.0- 21.5	15/ 18	20	SANDY SILT; grayish-brown, moist, poorly graded, very fine-grained sand, pervas- ive throughout sample (ML) -----	0	No odor	
CAM	SB2	9/ -5	25.0- 26.5	15/ 18	25	SAND; grayish-brown, moist, well graded, silt grains through small gravel classes (SW)	600	Strong odor	
CAM	SB2	15/ -6	30.0- 31.5	15/ 18	30	SAND; grayish-brown, moist, well graded, same as above (SW)	400	Strong odor	

Field Notes:

Aegis
Environmental
Consultants

Logged By: Robert Warner

PROJECT NAME/LOCATION: 1401 Grand Avenue San Leandro, California	PROJECT NUMBER: 91-001	BORING NUMBER: SB-2	SHEET 2 OF 2
	CONTRACTOR: West Hazmat Drilling		DRILLING METHOD: 8" H.S.A.
	DRILLER: Scott Krueger		DRILLING RIG: CME-75
LAND OWNER: Mr. Manmohan Chopra	START DATE: 04/24/91 TIME: 9:30 a.m.	COMPLETED: 04/24/91 TIME: 10:00 a.m.	

STAY MPEL	SNB C	U L O A N	S I M T P F S E T	S R A E M C P O L V E	DEPTH (ft.)	DESCRIPTION OF MATERIALS AND CONDITIONS	PID (ppm)	GENERAL OBSERVATION NOTES
CAM	SB2	15/18/21	30.0-31.5	15/18	30	SAND; grayish-brown, moist, well graded, silt grains through small gravel classes (SW)	400	Strong odor
CAM	SB2	35/50/3"	35.0-36.0	11/18	35	SANDY SILT; greenish-gray, moist, relict sand grains surviving chemical weathering (ML)	350	Moderate strong odor
CAM	SB2	35/50/5"	40.0-41.0	12/18	40	SANDY SILT; greenish-gray, moist, same as above (ML)	60	Slight odor
					45	EOB; end of boring at 41'		
					50			
					55			
					60			

Field Notes:	Aegis Environmental Consultants
	Logged By: Robert Warner

PROJECT NAME/LOCATION: 1401 Grand Avenue San Leandro, California		PROJECT NUMBER: 91-001	BORING NUMBER: SB-3	SHEET 1 OF 2
		CONTRACTOR: West Hazmat Drilling	DRILLING METHOD: 8" H.S.A.	
		DRILLER: Scott Krueger	DRILLING RIG: CME-75	
LAND OWNER: Mr. Manmohan Chopra		START DATE: 04/24/91 TIME: 11:30 a.m.	COMPLETED: 04/24/91 TIME: 12:30 p.m.	

ST AY MP PE LE	SN AU MM PB LE ER	BC LO OU WN TL SE	SI AN MT PL FL ET	SR AE MC PO LV E	DEPTH (ft.)	DESCRIPTION OF MATERIALS AND CONDITIONS	PID (ppm)	GENERAL OBSERVATION NOTES
					0	CONCRETE; aggregate base between-0.5 - 1.0'		
						SILTY CLAY; dark brown, moist (CL)	0	No odor
CAM	SB3 -1	11/ 13/ 22	5.0- 6.5	18/ 18	5	CLAY; dark brown, moist (CL)	0	No odor
CAM	SB3 -2	21/ 50/ R = 5"	10.0- 11.5	10/ 18	10	SILTY CLAY; dark brown, moist (CL)	0	No odor
CAM	SB3 -3	11/ 15/ 18	15.0- 16.5	15/ 18	15	SANDY SILT; medium brown, moist (ML)	0	No odor
CAM	SB3 -4	11/ 16/ 21	20.0- 21.5	16/ 18	20	CLAYEY SILT; medium brown, moist, moderate plasticity (ML)	0	No odor
CAM	SB3 -5	20/ 25/ 35	25.0- 26.5	14/ 18	25	CLAYEY SILT; light brown, moist, cottony cement visible (ML) SANDY SILT; light grayish- brown, moist, poorly graded	0	No odor
CAM	SB3 -6	18/ 25/ 32	30.0- 31.0	12/ 18	30	relict very fine-grained sand, white cottony cement, not calcareous (ML)	5	Very slight gas odor

Field Notes:

Aegis
Environmental
Consultants

Logged By: Robert Warner

PROJECT NAME/LOCATION: 1401 Grand Avenue San Leandro, California	PROJECT NUMBER: 91-001	BORING NUMBER: SB-3	SHEET 2 OF 2
	CONTRACTOR: West Hazmat Drilling		DRILLING METHOD: 8" H.S.A.
	DRILLER: Scott Krueger		DRILLING RIG: CME-75
LAND OWNER: Mr. Manmohan Chopra	START DATE: 04/24/91 TIME: 12:30 p.m.	COMPLETED: 04/24/91 TIME: 1:00 p.m.	

STAY MPE L E E	SN A U M M P B L E E R	BC L O O U W N T L S E	SI L O A N M T P L F S E	SR A E M C P O L V E	DEPTH (ft.)	DESCRIPTION OF MATERIALS AND CONDITIONS	PID (ppm)	GENERAL OBSERVATION NOTES
CAM	SB3 -6	18/ 25/ 32	30.0- 31.0	12/ 18	30	SANDY SILT; light grayish-brown, moist, poorly graded very fine-grained sand (ML)	5	Very slight gas odor
CAM	SB3 -7	22/ 37/ 40	35.0- 36.0	12/ 18	35	SANDY SILT; greenish-gray, moist, same as above (ML)	150	Moderate gas odor
CAM	SB3 -8	50 R = 6"	40.0- 41.0	10/ 18	40	SANDY SILT; greenish-gray, moist, same as above (ML) ----- EOB; end of boring at 41'	50	Slight gas odor
					45			
					50			
					55			
					60			

Field Notes:	Aegis Environmental Consultants
	Logged By: Robert Warner

PROJECT NAME/LOCATION: 1401 Grand Avenue San Leandro, California		PROJECT NUMBER: 91-001	BORING NUMBER: SB-4	SHEET 1 OF 2
		CONTRACTOR: West Hazmat Drilling		DRILLING METHOD: 8" H.S.A.
		DRILLER: Scott Krueger		DRILLING RIG: CME-75
LAND OWNER: Mr. Manmohan Chopra		START DATE: 04/24/91 TIME: 1:00 p.m.		COMPLETED: 04/24/91 TIME: 1:45 p.m.

S T A Y M P E L E	S N A U M P B L E R	B C L O U M W N P S E T	S I L T F S E T	S R A E M C P O L V E	DEPTH (ft.)	DESCRIPTION OF MATERIALS AND CONDITIONS	PID (ppm)	GENERAL OBSERVATION NOTES
					0	AC/AB; asphalt surface, AB between-0.5 - 1.0'----- SILTY CLAY; dark brown, moist (CL)	0	No odor
CAM	SB4 -1	8/ 11/ 13	5.0- 6.5	15/ 18	5	CLAY; drk brown, moist (CL)	0	No odor
CAM	SB4 -2	8/ 19/ 21	10.0- 11.5	16/ 18	10	SILTY CLAY; medium brown, moist (CL)	0	No odor
CAM	SB4 -3	11/ 21/ 25	15.0- 16.5	18/ 18	15	CLAYEY SILT; medium brown, moist (ML)	0	No odor
CAM	SB4 -4	25/ 35/ 36	20.0- 21.5	18/ 18	20	CLAYEY SILT; medium brown, moist (ML)	0	No odor
CAM	SB4 -5	16/ 27/ 29	25.0- 26.5	18/ 18	25	CLAYEY SILT; medium brown, moist (ML) SANDY SILT; light greenish-brown, moist very fine to coarse-grained clasts still surviving (ML)	0	No odor
CAM	SB4 -6	50 R = 6"	30.0- 31.0	12/ 18	30	SANDY SILT; light greenish- brown, moist, apparently remnants of in-situ chemical weathering (ML)	3	No odor

Field Notes:	Aegis Environmental Consultants
	Logged By: Robert Warner

PROJECT NAME/LOCATION: 1401 Grand Avenue San Leandro, California	PROJECT NUMBER: 91-001	BORING NUMBER: SB-4	SHEET 2 OF 2
	CONTRACTOR: West Hazmat Drilling		DRILLING METHOD: 8" H.S.A.
	DRILLER: Scott Krueger		DRILLING RIG: CME-75
LAND OWNER: Mr. Manmohan Chopra	START DATE: 04/24/91 TIME: 1:45 p.m.	COMPLETED: 04/24/91 TIME: 2:00 p.m.	

S T A Y M P P E L E	S N A U M M P B L E E R	B C L O O U W N T L S E	S I A N M T P F L F S E	S R A E M C P O L V E	DEPTH (ft.)	DESCRIPTION OF MATERIALS AND CONDITIONS	PID (ppm)	GENERAL OBSERVATION NOTES
CAM	SB4 -6	50 R = 6"	30.0- 31.0	12/ 18	30	SANDY SILT; light greenish-brown, moist, relict sand structures visible, apparently remnants of in-situ chemical weathering (ML)	3	No odor
CAM	SB4 -7	50 R = 5"	35.0- 36.0	12/ 18	35	SANDY SILT; greenish-gray, moist, same as above (ML)	20	Very slight gas odor
CAM	SB4 -8	50 R = 6"	40.0- 41.0	10/ 18	40	SANDY SILT; greenish-gray, moist, same as above (ML)	15	Very slight gas odor
					45	----- EOB; end of boring at 41'		
					50			
					55			
					60			

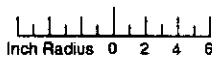
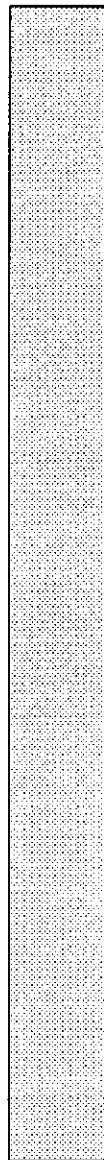
Field Notes:	Aegis Environmental Consultants
	Logged By: Robert Warner

BORING CONSTRUCTION DETAIL

(Backfilled With
Bentonite-Cement Slurry)

DEPTH BELOW GROUND SURFACE (FEET)

0
0.88
1.76
2.64
3.52
4.40
5.28
6.16
7.04
7.92
8.80
9.68
10.56

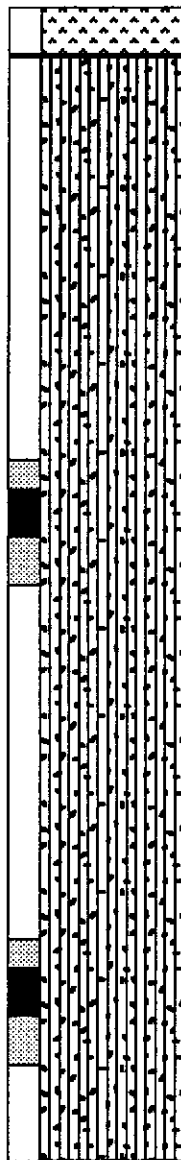


GRAPHIC LOG

PID
(ppmv)

DRILL DEPTH (FEET) @ 28 DEGREE ANGLE

0
1
2
3
4
5
6
7
8
9
10
11
12



DESCRIPTION

Concrete reinforced with 1/2" rebar, 6" thick

Sandy SILT (ML); dusky yellowish brown, (10 YR 2/2), damp, moderately graded, no odor

Logged by: M. Kitko	Drilling Company: B&F	Well Head Completion: 15:20 hrs
Project Mgr: B. Garber	Drilling Method: Mobile Drill C-53	Type of Sampler: 2" Modified California Split Spoon
Date Drilled: April 14, 1992	Driller: Tony Musso & Chris Fisut	TD (Total Depth): 48.8' Vertical 55.5' @ 28° Angle

Explanation

- Water level during drilling
- Water level in completed well
- Location of recovered drill sample
- Location of sample sealed for chemical analysis
- Sieve sample
- Grab Sample

Contacts:

- Solid where certain
- Dotted where approximate
- Dashed where uncertain
- Hachured where gradational
- est K Estimated permeability (hydraulic conductivity)
1K= primary, 2K= secondary
- NR No Recovery



AEGIS ENVIRONMENTAL, INC.

Boring Log

Boring 5

Haber Oil
1401 Grand Avenue
San Leandro, CA

JOB NUMBER

91-001

BORING

5

BORING CONSTRUCTION DETAIL

(Backfilled With
Bentonite-Cement Slurry)

GRAPHIC LOG

DESCRIPTION

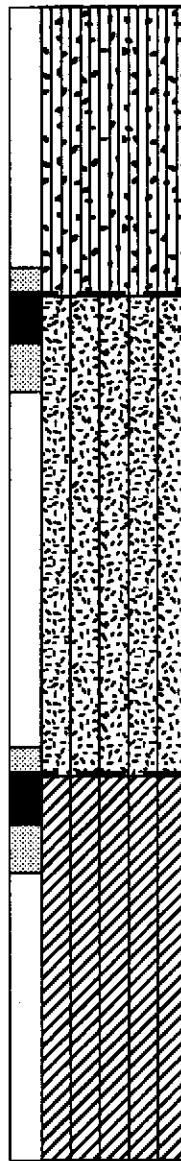
DEPTH BELOW GROUND SURFACE (FEET)

10.56
11.44
12.32
13.20
14.08
14.96
15.84
16.72
17.60
18.48
19.36
20.24
21.12



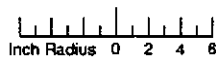
DRILL DEPTH (FEET) @ 28 DEGREE ANGLE

12
13
14
15
16
17
18
19
20
21
22
23
24



Silty SAND (ML); dark yellowish brown, (10 YR 4/2), damp, poorly graded, fine-grained, no odor

Silty CLAY (ML); dark yellowish brown, (10 YR 4/2), damp, slightly plastic, soft, no odor



Explanation

- Water level during drilling
- Water level in completed well
- Location of recovered drill sample
- Location of sample sealed for chemical analysis
- Sieve sample
- Grab Sample

Contacts:

- Solid where certain
- Dotted where approximate
- Dashed where uncertain
- Hachured where gradational
- est K Estimated permeability (hydraulic conductivity)
1K= primary, 2K= secondary
- NR No Recovery



AEGIS ENVIRONMENTAL, INC.

Boring Log

Boring 5 (continued)

Haber Oil
1401 Grand Avenue
San Leandro, CA

JOB NUMBER

91-001

BORING

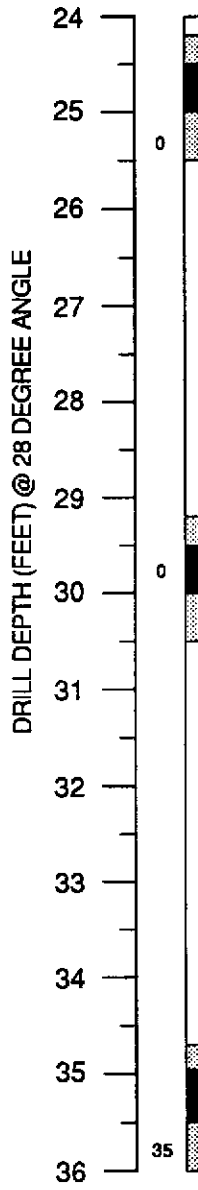
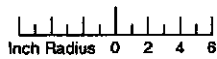
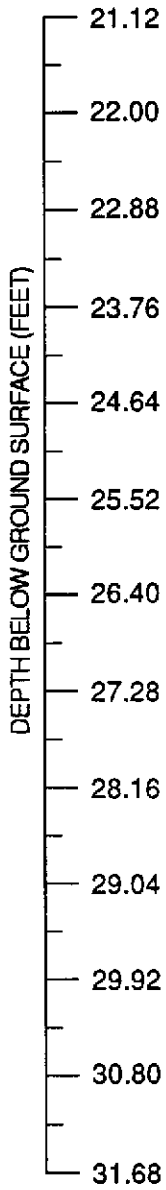
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BORING CONSTRUCTION DETAIL

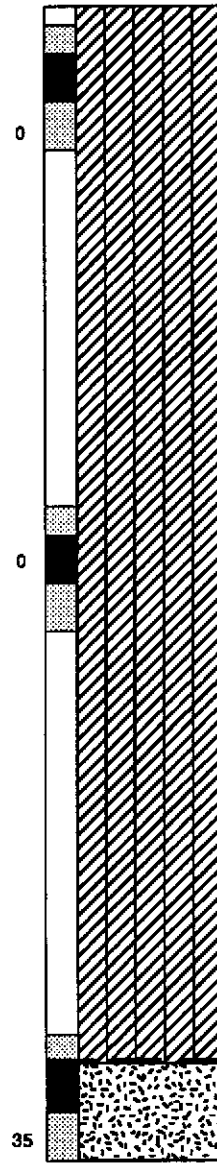
(Backfilled With
Bentonite-Cement Slurry)

GRAPHIC LOG

DESCRIPTION



PID
(ppmv)



Light olive gray, (5YR 5/2)

SAND (SM); greenish gray, dry to damp, poorly graded, fine to medium grained, silty, non clayey

Explanation

- Water level during drilling
- Water level in completed well
- Location of recovered drill sample
- Location of sample sealed for chemical analysis
- Sieve sample
- Grab Sample

Contacts:

- Solid where certain
- Dotted where approximate
- Dashed where uncertain
- Hachured where gradational
- est K Estimated permeability (hydraulic conductivity)
1K= primary, 2K= secondary
- NR No Recovery



AEGIS ENVIRONMENTAL, INC.

Boring Log

Boring 5 (continued)

Haber Oil
1401 Grand Avenue
San Leandro, CA

JOB NUMBER

91-001

BORING

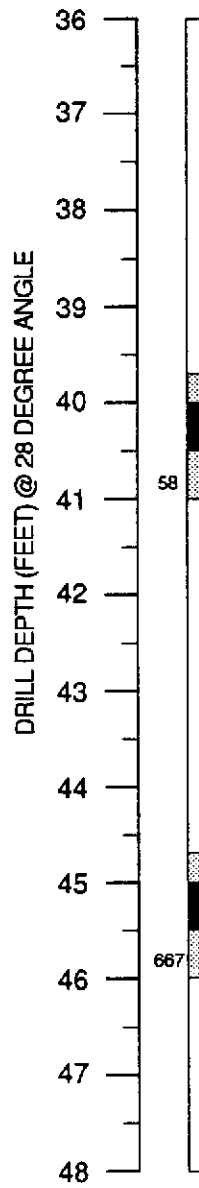
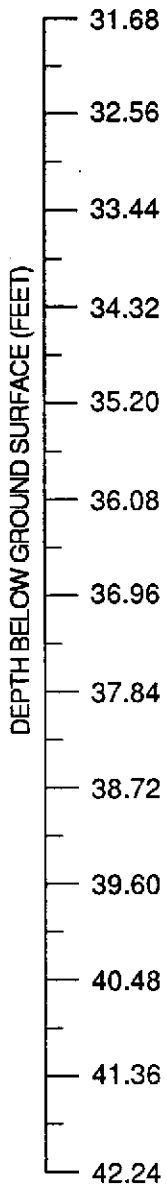
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BORING CONSTRUCTION DETAIL

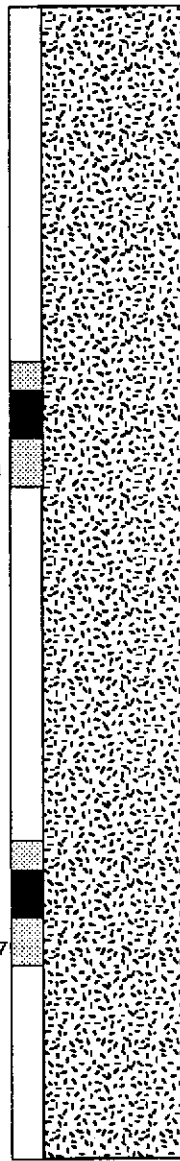
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Bentonite-Cement Slurry)

GRAPHIC LOG

DESCRIPTION

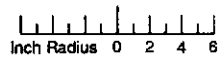


PID
(ppmv)



Damp

Moist



Explanation

- Water level during drilling
- Water level in completed well
- Location of recovered drill sample
- Location of sample sealed for chemical analysis
- Sieve sample
- Grab Sample

Contacts:

- Solid where certain
- Dotted where approximate
- Dashed where uncertain
- Hachured where gradational
- est K Estimated permeability (hydraulic conductivity)
1K= primary, 2K= secondary
- NR No Recovery



AEGIS ENVIRONMENTAL, INC.

Boring Log

Boring 5 (continued)

Haber Oil
1401 Grand Avenue
San Leandro, CA

JOB NUMBER

91-001

BORING

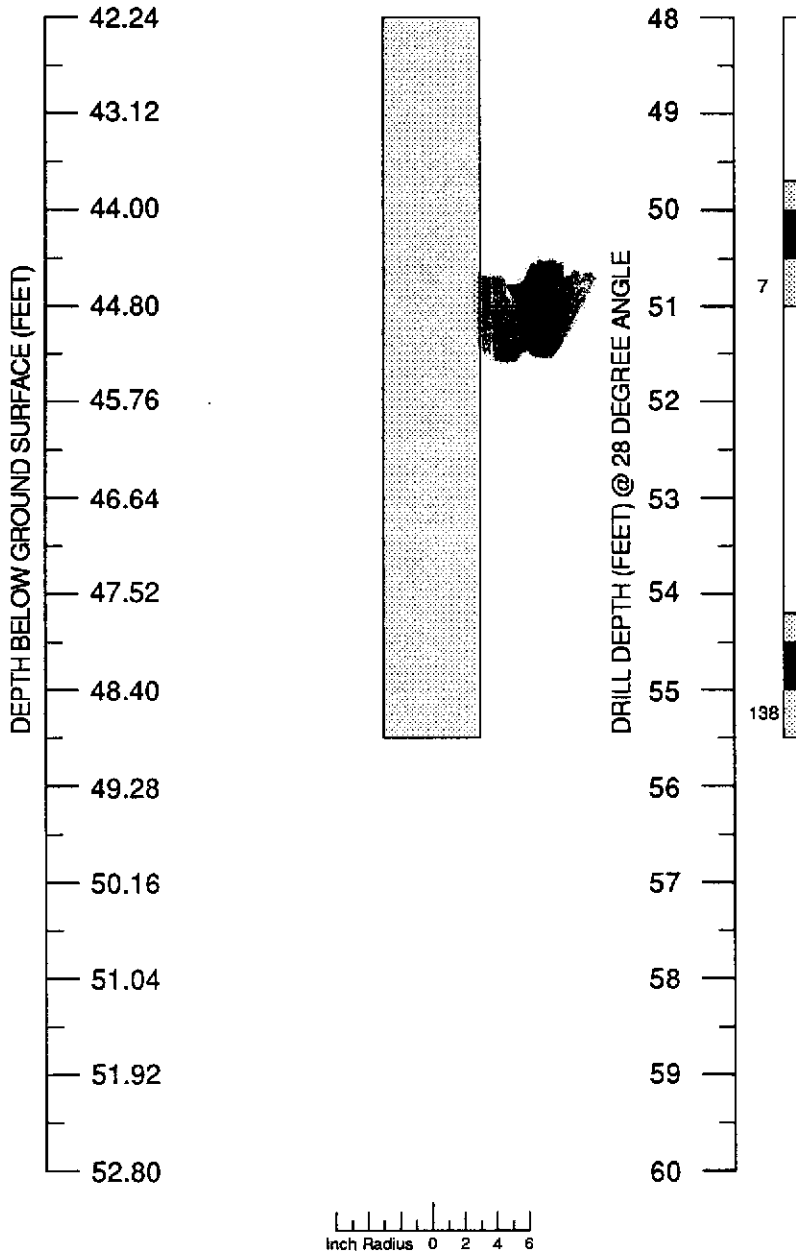
5

BORING CONSTRUCTION DETAIL

(Backfilled With
Bentonite-Cement Slurry)

GRAPHIC LOG

DESCRIPTION



SAND (SW): dark yellowish brown, (10 YR 4/2) well graded, coarse grained, hydrous iron, odor.

Total Depth @ 28° angle = 55.5'
Total Vertical Depth = 48.84'

Groundwater encountered at a vertical depth of [redacted]

Explanation

- Water level during drilling
- Water level in completed well
- Location of recovered drill sample
- Location of sample sealed for chemical analysis
- Sieve sample
- Grab Sample

Contacts:

- Solid where certain
- Dotted where approximate
- Dashed where uncertain
- Hatched where gradational
- est K Estimated permeability (hydraulic conductivity)
1K= primary, 2K= secondary
- NR No Recovery



AEGIS ENVIRONMENTAL, INC.

Boring Log
Boring 5 (continued)

JOB NUMBER
91-001

Haber Oil
1401 Grand Avenue
San Leandro, CA

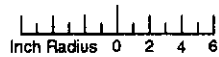
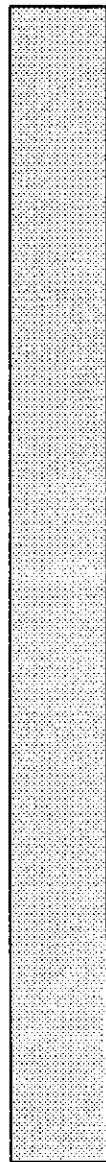
BORING
5

BORING CONSTRUCTION DETAIL

(Backfilled With
Bentonite-Cement Slurry)

DEPTH BELOW GROUND SURFACE (FEET)

0
0.88
1.76
2.64
3.52
4.40
5.28
6.16
7.04
7.92
8.80
9.68
10.56

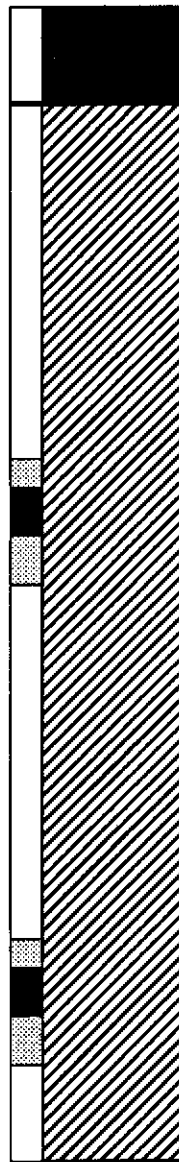


GRAPHIC LOG

PID
(ppmv)

DRILL DEPTH (FEET) @ 28 DEGREE ANGLE

0
1
2
3
4
5
6
7
8
9
10
11
12



Asphalt

CLAY (CL); dusky yellowish brown, (10 YR 2/2), damp, slightly plastic, soft, no odor

Dark yellowish brown, (10 YR 4/2)

Logged by: M. Kitko
Project Mgr: B. Garber
Date Drilled: April 15, 1992

Drilling Company: B&F
Drilling Method: Mobile Drill C-53
Driller: Tony Musso & Chris Fisul

Well Head Completion: 12:30 hrs
Type of Sampler: 2" Modified California Split Spoon
TD (Total Depth): 48.4' Vertical
55° @ 28° Angle

Explanation

- Water level during drilling
- Water level in completed well
- Location of recovered drill sample
- Location of sample sealed for chemical analysis
- Sieve sample
- Grab Sample

Contacts:

- Solid where certain
- Dotted where approximate
- Dashed where uncertain
- Hachured where gradational
- est K Estimated permeability (hydraulic conductivity)
1K= primary, 2K= secondary
- NR No Recovery



AEGIS ENVIRONMENTAL, INC.

Boring Log

Boring 6

Haber Oil
1401 Grand Avenue
San Leandro, CA

JOB NUMBER

91-001

BORING

6

BORING CONSTRUCTION DETAIL

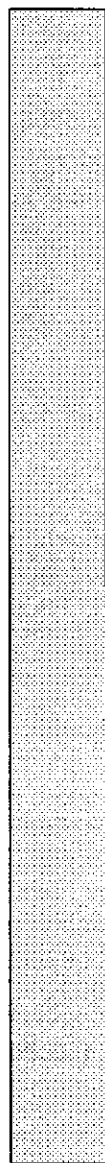
(Backfilled With
Bentonite-Cement Slurry)

GRAPHIC LOG

DESCRIPTION

DEPTH BELOW GROUND SURFACE (FEET)

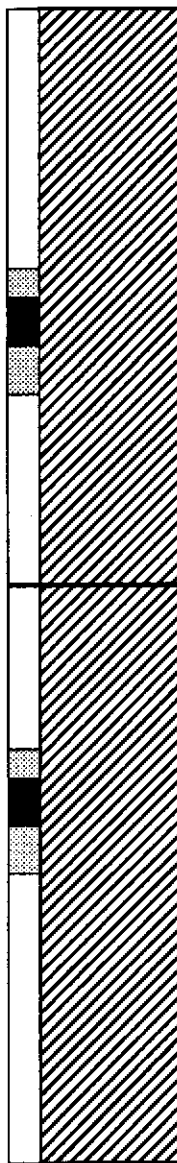
10.56
11.44
12.32
13.20
14.08
14.96
15.84
16.72
17.60
18.48
19.36
20.24
21.12



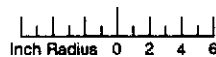
PID (ppmv)

12
13
14
15
16
17
18
19
20
21
22
23
24

DRILL DEPTH (FEET) @ 28 DEGREE ANGLE



silty SAND (ML), dark yellowish brown, damp, slightly plastic, soft, no odor



Explanation

- Water level during drilling
- Water level in completed well
- Location of recovered drill sample
- Location of sample sealed for chemical analysis
- Sieve sample
- Grab Sample

Contacts:

- Solid where certain
- Dotted where approximate
- Dashed where uncertain
- Hatched where gradational
- est K Estimated permeability (hydraulic conductivity)
1K= primary, 2K= secondary
- NR No Recovery



AEGIS ENVIRONMENTAL, INC.

Boring Log

Boring 6 (continued)

Haber Oil
1401 Grand Avenue
San Leandro, CA

JOB NUMBER

91-001

BORING

6

BORING CONSTRUCTION DETAIL

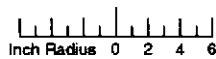
(Backfilled With
Bentonite-Cement Slurry)

GRAPHIC LOG

DESCRIPTION

DEPTH BELOW GROUND SURFACE (FEET)

21.12
22.00
22.88
23.76
24.64
25.52
26.40
27.28
28.16
29.04
29.92
30.80
31.68

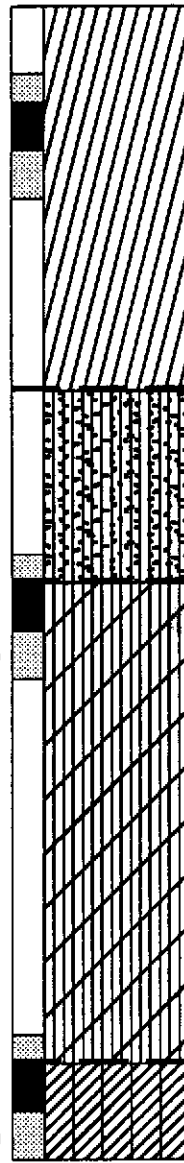


PID (ppmv)

24
25
26
27
28
29
30
31
32
33
34
35
36

DRILL DEPTH (FEET) @ 28 DEGREE ANGLE

49
30
20



Sandy SILT (ML); <30% sand, olive gray, (5Y 3/2), moist, medium dense, hydrocarbon odor

Clayey SILT (ML); <30% clay, olive gray, (5Y 3/2), moist, slight plasticity, hydrocarbon odor

Silty CLAY (ML); <30% silt, dark yellowish brown, (10 YR 4/2), slightly plastic, soft, hydrocarbon odor

Explanation

- Water level during drilling
- Water level in completed well
- Location of recovered drill sample
- Location of sample sealed for chemical analysis
- Sieve sample
- Grab Sample

Contacts:

- Solid where certain
- Dotted where approximate
- Dashed where uncertain
- Hachured where gradational
- est K Estimated permeability (hydraulic conductivity)
1K= primary, 2K= secondary
- NR No Recovery



AEGIS ENVIRONMENTAL, INC.

Boring Log

Boring 6 (continued)

Haber Oil
1401 Grand Avenue
San Leandro, CA

JOB NUMBER

91-001

BORING

6

BORING CONSTRUCTION DETAIL

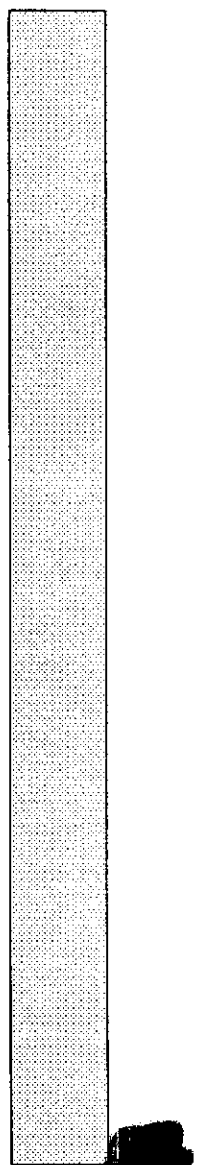
(Backfilled With
Bentonite-Cement Slurry)

GRAPHIC LOG

DESCRIPTION

DEPTH BELOW GROUND SURFACE (FEET)

31.68
32.56
33.44
34.32
35.20
36.08
36.96
37.84
38.72
39.60
40.48
41.36
42.24

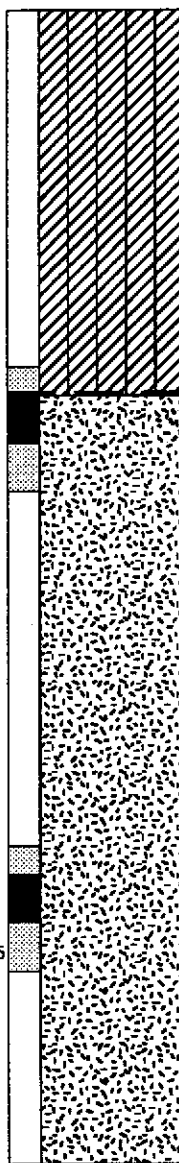


Inch Radius 0 2 4 6

PID
(ppmv)

DRILL DEPTH (FEET) @ 28 DEGREE ANGLE

36
37
38
39
40
41
42
43
44
45
46
47
48



SAND (SM); greenish gray, damp, poorly graded, fine to medium grained, high carbon content.

Explanation

- Water level during drilling
- Water level in completed well
- Location of recovered drill sample
- Location of sample sealed for chemical analysis
- Sieve sample
- Grab Sample

Contacts:

- Solid where certain
- Dotted where approximate
- Dashed where uncertain
- Hachured where gradational
- est K Estimated permeability (hydraulic conductivity)
1K= primary, 2K= secondary
- NR No Recovery



AEGIS ENVIRONMENTAL, INC.

Boring Log

Boring 6 (continued)

Haber Oil
1401 Grand Avenue
San Leandro, CA

JOB NUMBER

91-001

BORING

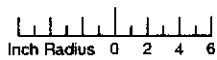
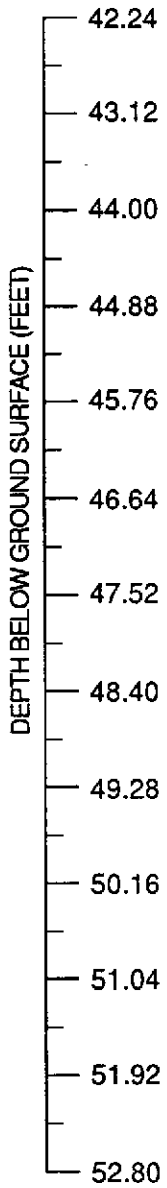
6

BORING CONSTRUCTION DETAIL

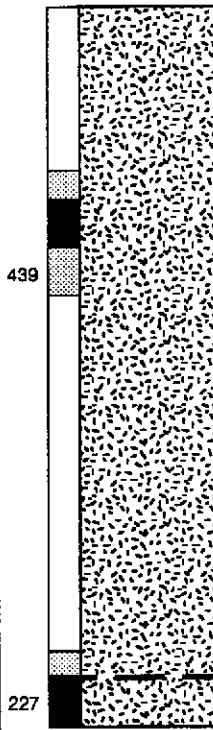
(Backfilled With
Bentonite-Cement Slurry)

GRAPHIC LOG

DESCRIPTION



PID
(ppmv)



SAND (SW); dark yellowish brown, (10 YR 4/2), well graded, coarse grained, hydrocarbon stain

Total Depth @ 26° angle = 55'
Total Vertical Depth = 48.4'

Groundwater encountered at a vertical depth of 51.2'

Explanation

- Water level during drilling
- Water level in completed well
- Location of recovered drill sample
- Location of sample sealed for chemical analysis
- Sieve sample
- Grab Sample

Contacts:

- Solid where certain
- Dotted where approximate
- Dashed where uncertain
- Hachured where gradational
- est K Estimated permeability (hydraulic conductivity)
1K= primary, 2K= secondary
- NR No Recovery



AEGIS ENVIRONMENTAL, INC.

Boring Log

Boring 6 (continued)

Haber Oil
1401 Grand Avenue
San Leandro, CA

JOB NUMBER

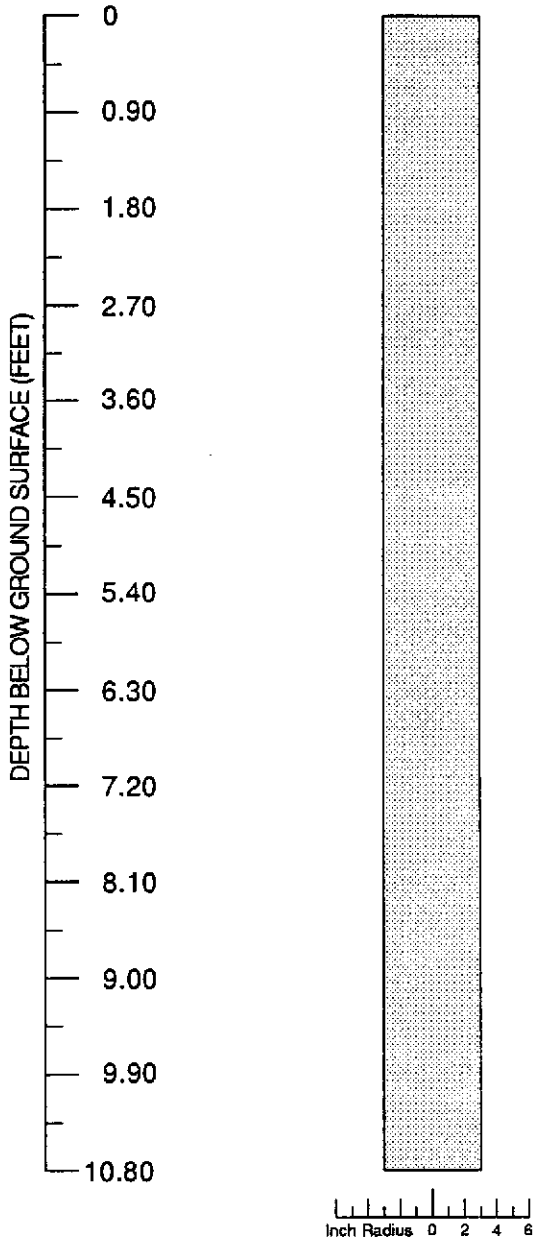
91-001

BORING

6

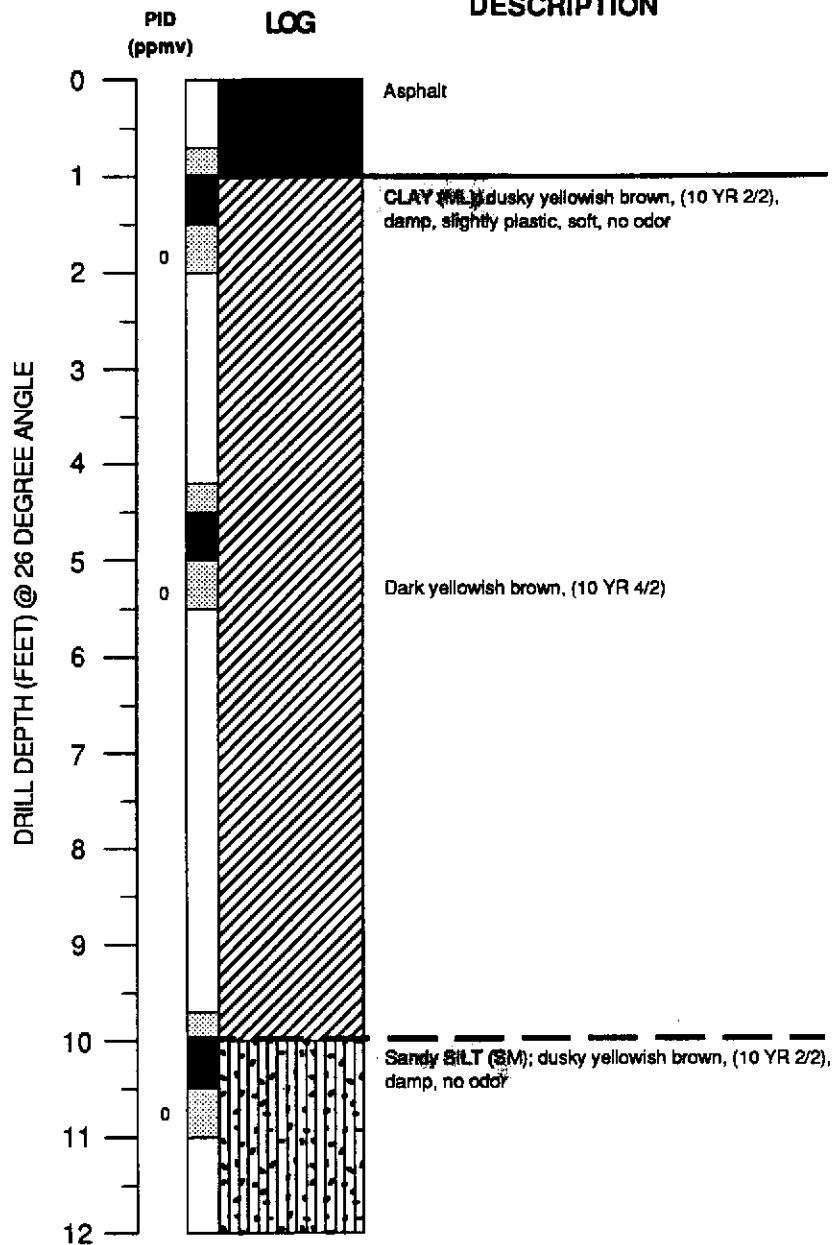
BORING CONSTRUCTION DETAIL

(Backfilled With
Bentonite-Cement Slurry)



GRAPHIC LOG

DESCRIPTION



Logged by: M. Kitko	Drilling Company: B&F	Well Head Completion: 17:05 hrs
Project Mgr: B. Garber	Drilling Method: Mobile Drill C-53	Type of Sampler: 2" Modified California Split Spoon
Date Drilled: April 15, 1992	Driller: Tony Musso & Chris Fisuf	TD (Total Depth): 49.4' Vertical 55' @ 26° Angle

Explanation

- Water level during drilling
- Water level in completed well
- Location of recovered drill sample
- Location of sample sealed for chemical analysis
- Sieve sample
- Grab Sample

Contacts:

- Solid where certain
- Dotted where approximate
- Dashed where uncertain
- Hachured where gradational
- est K Estimated permeability (hydraulic conductivity)
1K= primary, 2K= secondary
- NR No Recovery



AEGIS ENVIRONMENTAL, INC.

Boring Log

Boring 7

Haber Oil
1401 Grand Avenue
San Leandro, CA

JOB NUMBER

91-001

BORING

7

BORING CONSTRUCTION DETAIL

(Backfilled With
Bentonite-Cement Slurry)

GRAPHIC LOG

DESCRIPTION

DEPTH BELOW GROUND SURFACE (FEET)

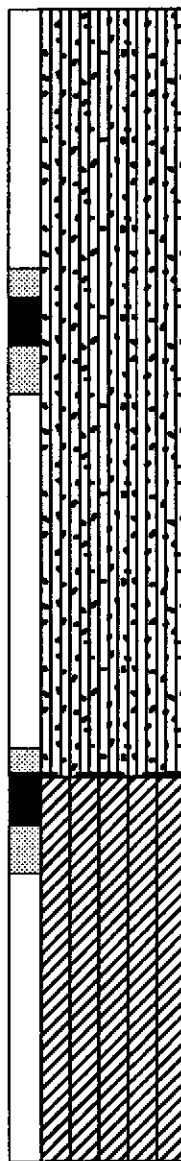
10.80
11.70
12.60
13.50
14.40
15.30
16.20
17.10
18.00
18.90
19.80
20.70
21.60



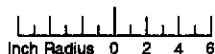
PID
(ppmv)

DRILL DEPTH (FEET) @ 26 DEGREE ANGLE

12
13
14
15
16
17
18
19
20
21
22
23
24



Silty CLAY (ML); dark yellowish brown, (10 YR 4/2), damp, slightly plastic, soft, no odor



Explanation

- Water level during drilling
- Water level in completed well
- Location of recovered drill sample
- Location of sample sealed for chemical analysis
- Sieve sample
- Grab Sample

Contacts:

- Solid where certain
- Dotted where approximate
- Dashed where uncertain
- Hachured where gradational
- est K Estimated permeability (hydraulic conductivity)
1K= primary, 2K= secondary
- NR No Recovery



AEGIS ENVIRONMENTAL, INC.

Boring Log

Boring 7 (continued)

Haber Oil
1401 Grand Avenue
San Leandro, CA

JOB NUMBER

91-001

BORING

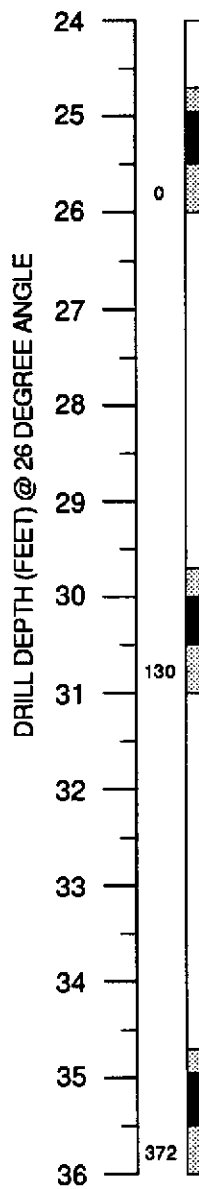
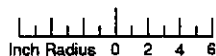
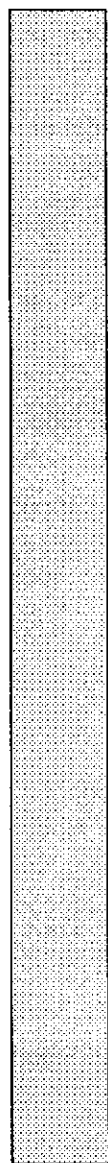
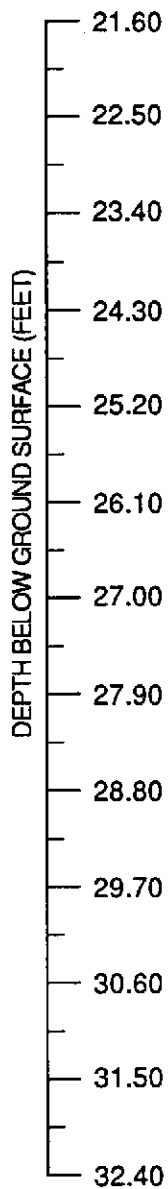
7

BORING CONSTRUCTION DETAIL

(Backfilled With
Bentonite-Cement Slurry)

GRAPHIC LOG

DESCRIPTION



Clayey SILT (ML): <30% clay, olive gray, (5 Y 3/2), moist, slight plasticity, hydrocarbon odor.

Dark yellowish brown, (10 YR 4/2)

SAND (SM): greenish gray, (5 GY 6/1), damp, poorly graded, fine to medium grained, hydrocarbon odor.

Explanation

- Water level during drilling
- Water level in completed well
- Location of recovered drill sample
- Location of sample sealed for chemical analysis
- Sieve sample
- Grab Sample

Contacts:

- Solid where certain
- Dotted where approximate
- Dashed where uncertain
- Hachured where gradational
- est K Estimated permeability (hydraulic conductivity)
1K= primary, 2K= secondary
- NR No Recovery



AEGIS ENVIRONMENTAL, INC.

Boring Log

Boring 7 (continued)

Haber Oil
1401 Grand Avenue
San Leandro, CA

JOB NUMBER

91-001

BORING

7

BORING CONSTRUCTION DETAIL

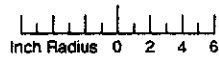
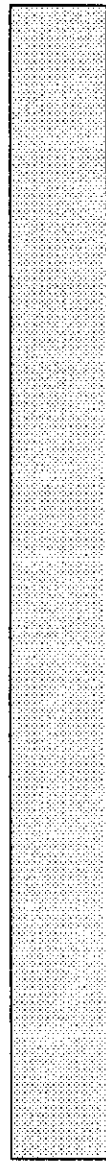
(Backfilled With
Bentonite-Cement Slurry)

GRAPHIC LOG

DESCRIPTION

DEPTH BELOW GROUND SURFACE (FEET)

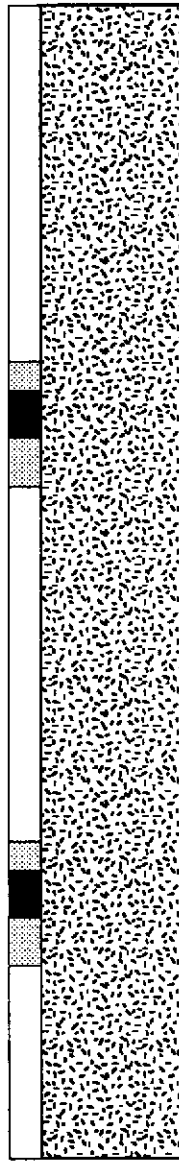
32.40
33.30
34.20
35.10
36.00
36.90
37.80
38.70
39.60
40.50
41.40
42.30
43.20



PID
(ppmv)

DRILL DEPTH (FEET) @ 26 DEGREE ANGLE

36
37
38
39
40
41
42
43
44
45
46
47
48



Explanation

- Water level during drilling
- Water level in completed well
- Location of recovered drill sample
- Location of sample sealed for chemical analysis
- Sieve sample
- Grab Sample

Contacts:

- Solid where certain
- Dotted where approximate
- Dashed where uncertain
- Hachured where gradational
- est K Estimated permeability (hydraulic conductivity)
1K= primary, 2K= secondary
- NR No Recovery



AEGIS ENVIRONMENTAL, INC.

Boring Log
Boring 7 (continued)

JOB NUMBER
91-001

Haber Oil
1401 Grand Avenue
San Leandro, CA

BORING

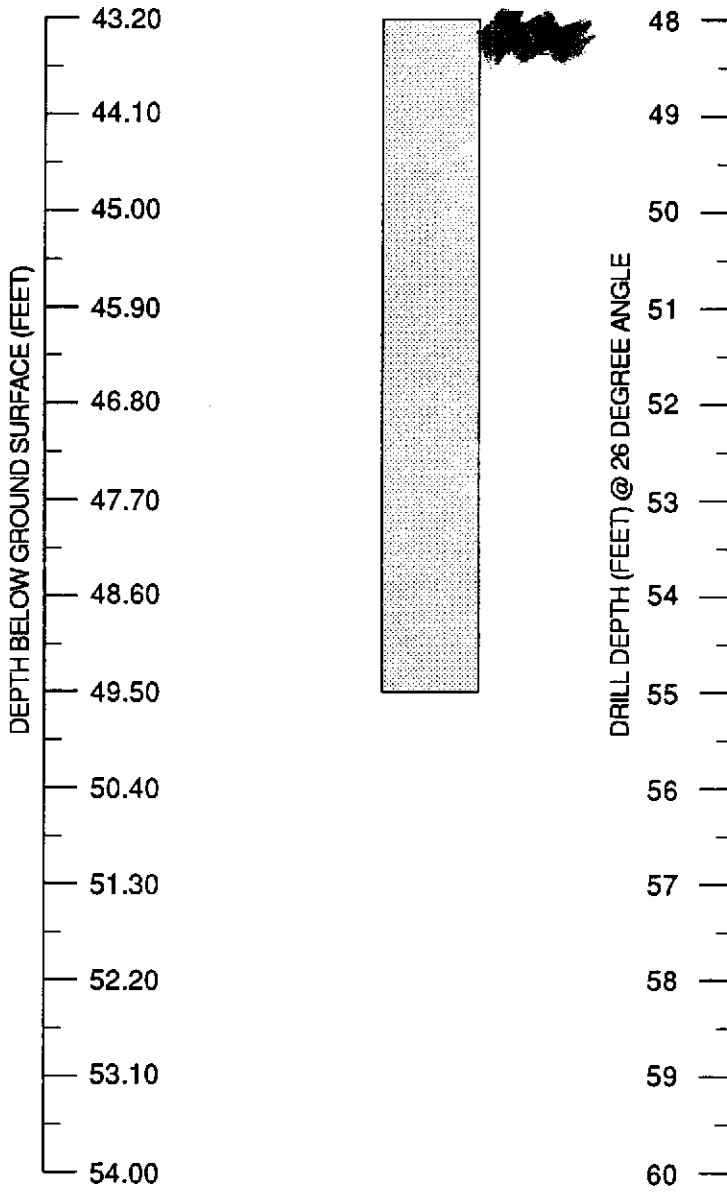
7

BORING CONSTRUCTION DETAIL

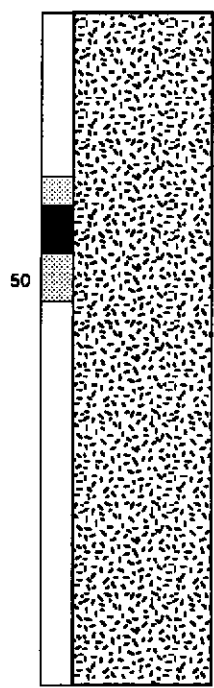
(Backfilled With
Bentonite-Cement Slurry)

GRAPHIC LOG

DESCRIPTION



PID
(ppmv)



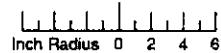
Dark yellowish brown, (10 YR 4/2)

No sample retrieved

Total Depth @ 26° angle = 55'

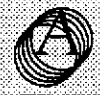
Total Vertical Depth = 49.5'

Groundwater encountered at a vertical depth of [redacted]



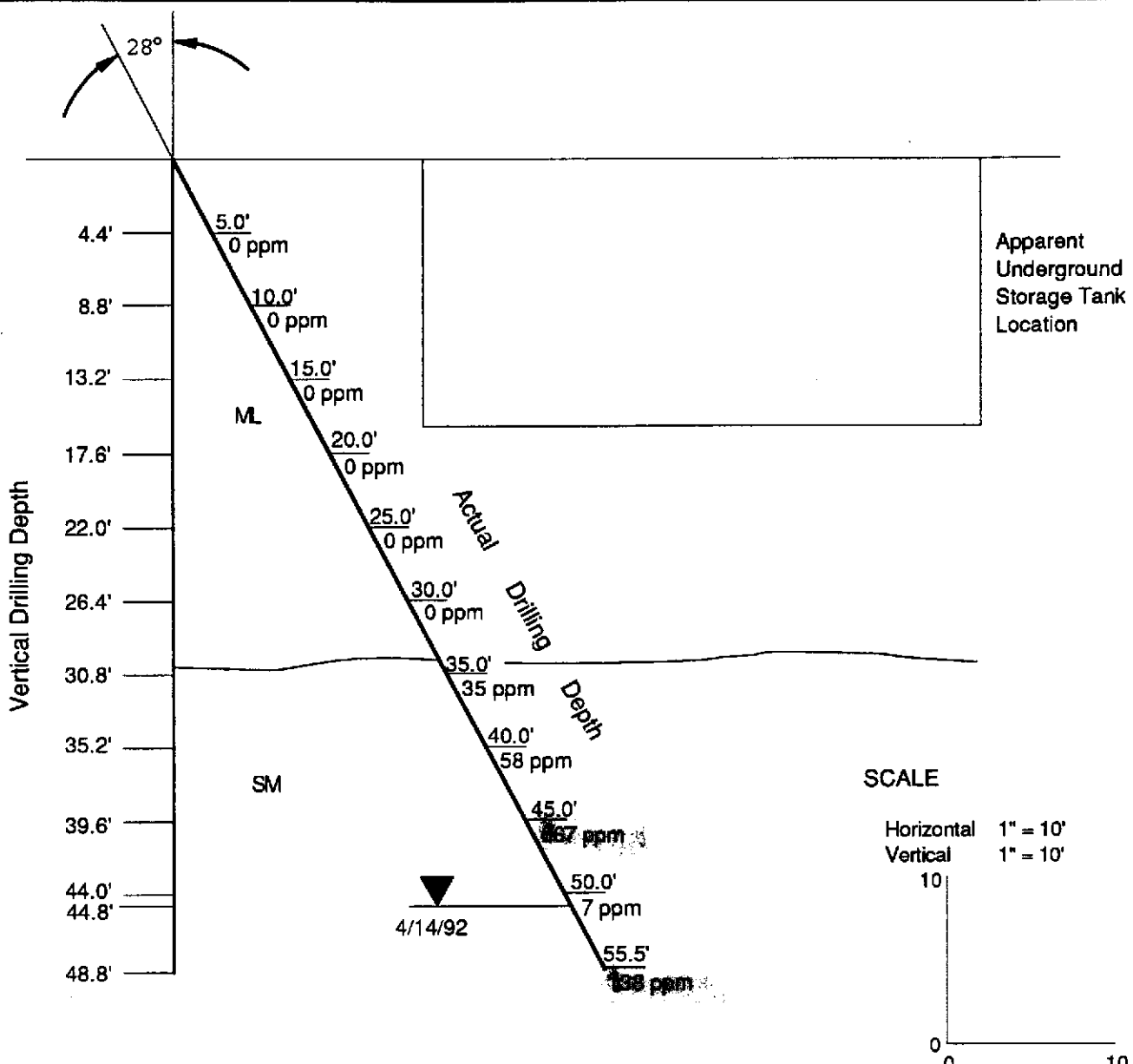
Explanation

- Water level during drilling
- Water level in completed well
- Location of recovered drill sample
- Location of sample sealed for chemical analysis
- Sieve sample
- Grab Sample
- Contacts:**
- Solid where certain
- Dotted where approximate
- Dashed where uncertain
- Hachured where gradational
- est K Estimated permeability (hydraulic conductivity)
1K= primary, 2K= secondary
- NR No Recovery



AEGIS ENVIRONMENTAL, INC.

Boring Log	JOB NUMBER
Boring 7 (continued)	91-001
Haber Oil 1401 Grand Avenue San Leandro, CA	BORING
	7



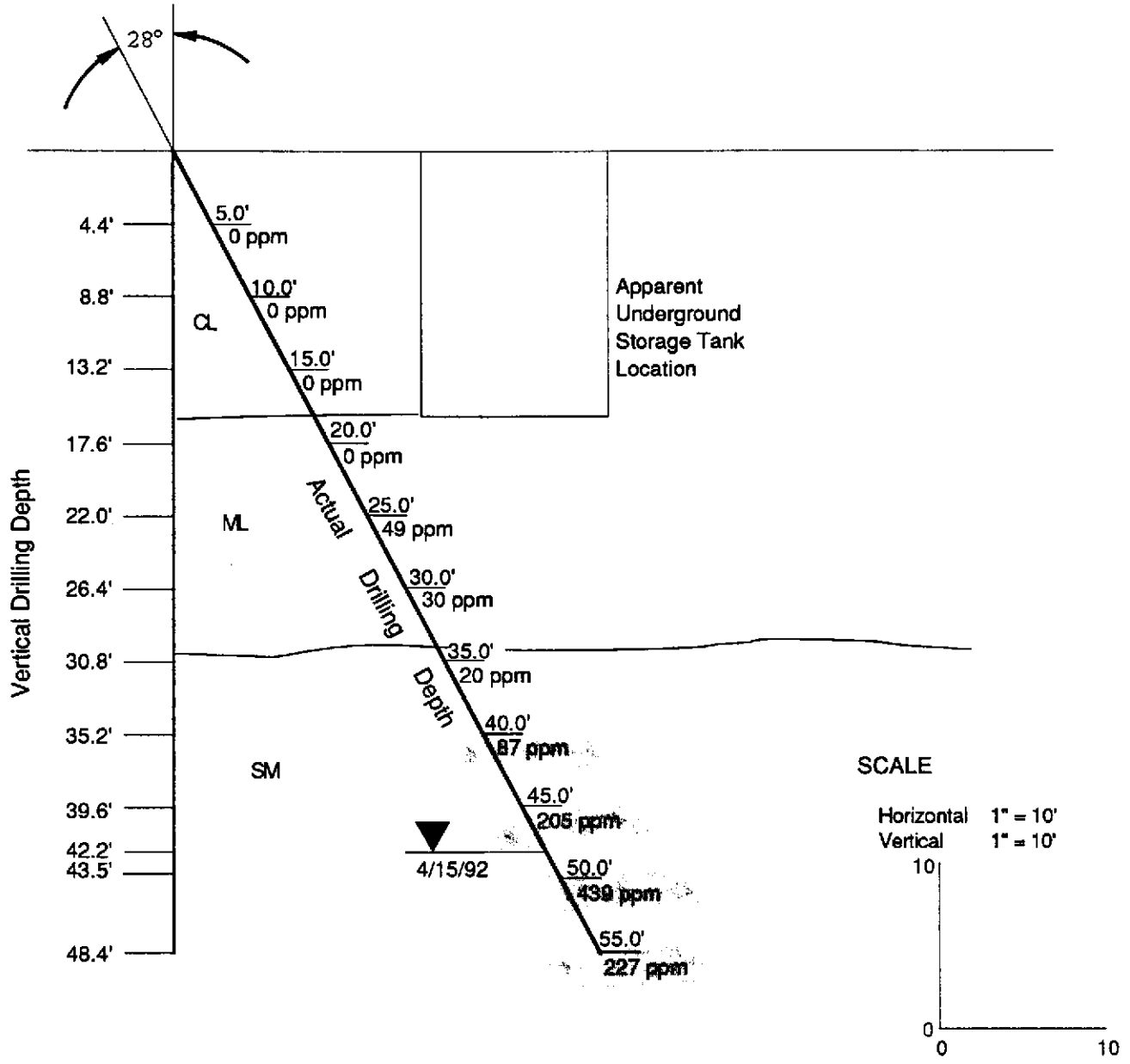
LEGEND

667 ppm Concentration Of TPH In ppm (parts per million), Based On Field Measurements With A ~~Fluorization~~ Detector In Parts Per Million (ppm), Calibrated To Hexane With 10.2 @V Lamp.

▼
4/14/92 Date And Location Of First Water Encountered, April 14, 1992 At A Depth Of 44.8 Feet Below Ground Surface.

NOTES All locations Are Approximate
Boring Angle Is True Angle

		SOIL BORING B-5		Attachment
DRAWN BY: Ed Bernard	DATE: April 27, 1992	Haber Oil 1401 Grand Avenue San Leandro, CA		PROJECT NUMBER: 10-91001
REVISED BY: Ed Bernard	DATE: June 2, 1992			
REVIEWED BY:	DATE:			



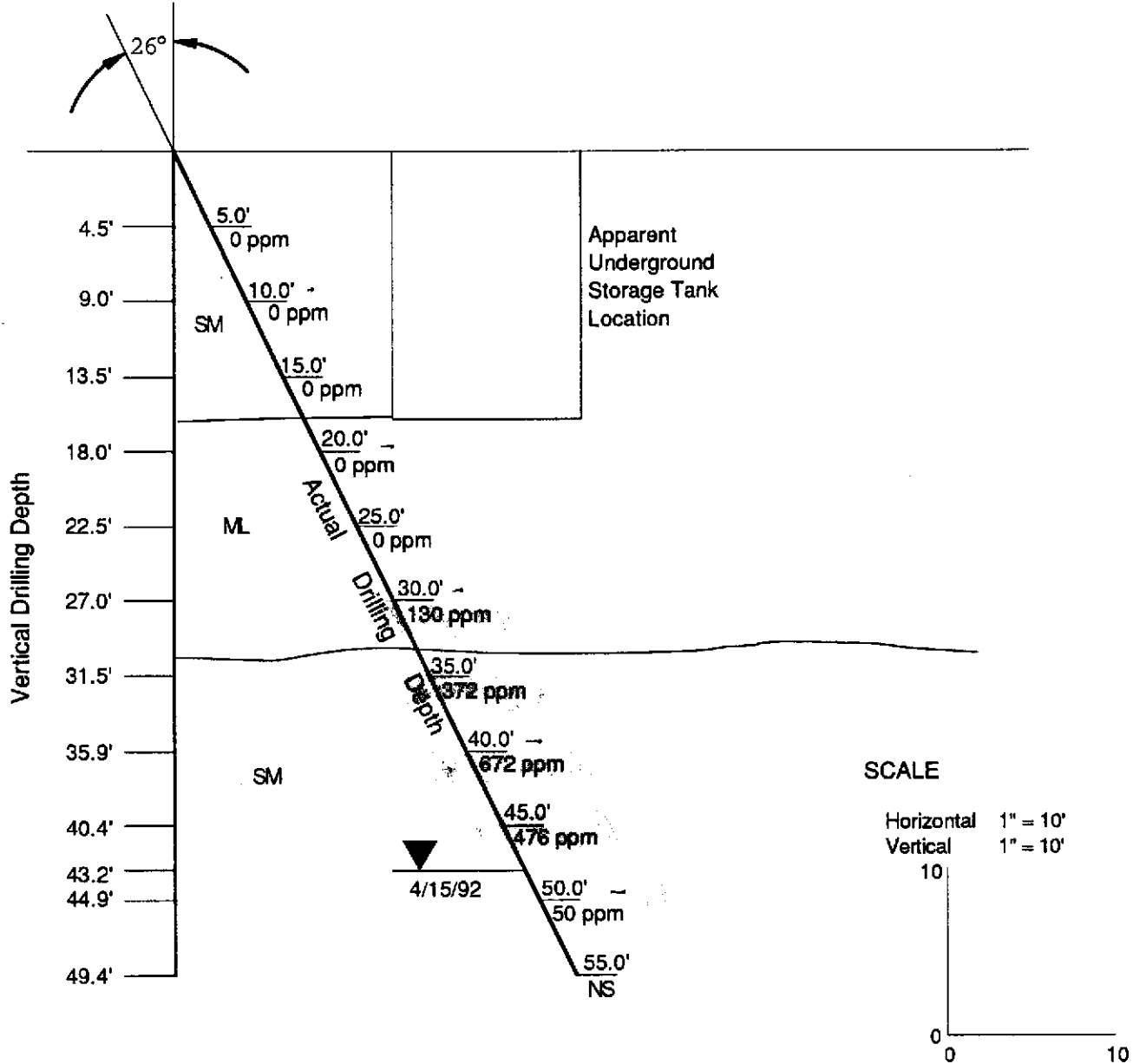
LEGEND

667 ppm Concentration Of TPH In ppm (parts per million), Based On Field Measurements With A Photoionization Detector In Parts Per Million (ppm), Calibrated To Hexane With 10.2 @V Lamp.

▼ Date And Location Of First Water Encountered, April 15, 1992 At A Depth Of 42.2 Feet Below Ground Surface.


NOTES All locations Are Approximate
Boring Angle Is True Angle

		SOIL BORING B-6		Attachment
DRAWN BY: Ed Bernard	DATE: April 27, 1992	Haber Oil 1401 Grand Avenue San Leandro, CA		
REVISED BY: Ed Bernard	DATE: June 2, 1992			
REVIEWED BY:	DATE:			




LEGEND

667 ppm Concentration Of TPH In ppm (parts per million), Based On Field Measurements With A Photoionization Detector In Parts Per Million (ppm), Calibrated To Hexane With 10.2 @V Lamp.

 Date And Location Of First Water Encountered, April 15, 1992 At A Depth Of 43.2 Feet Below Ground Surface.

NOTES All locations Are Approximate
Boring Angle Is True Angle

 AEGIS ENVIRONMENTAL, INC.		SOIL BORING B-7		Attachment
DRAWN BY: Ed Bernard	DATE: April 27, 1992	Haber Oil 1401 Grand Avenue San Leandro, CA		PROJECT NUMBER: 10-91001
REVISED BY:	DATE:			
REVIEWED BY:	DATE:			

APPENDIX C

**LABORATORY ANALYTICAL REPORTS AND
CHAIN OF CUSTODY FORMS: SOIL**



NATIONAL
ENVIRONMENTAL
TESTING, INC.

NET Pacific, Inc.
435 Tesconi Circle
Santa Rosa, CA 95401
Tel: (707) 526-7200
Fax: (707) 526-9623

RECEIVED
MAY 11 1992
Ans'd... *BHG*

Brian Garber
Aegis Environmental Inc.
1050 Melody Lane, Ste 160
Roseville, CA 95678


Date: 05/06/1992
NET Client Acct. No: 65400
NET Pacific Job No: 92.2210
Received: 04/21/1992

Client Reference Information

1401 Grand Ave., San Leandro, Project No. 10-91-001

Sample analysis in support of the project referenced above has been completed and results are presented on following pages. Please refer to the enclosed "Key to Abbreviations" for definition of terms. Should you have questions regarding procedures or results, please feel welcome to contact Client Services.

Approved by:


Jules Skamarack
Laboratory Manager

Enclosure(s)



Client Acct: 65400
 Client Name: Aegis Environmental Inc.
 NET Job No: 92.2210

Date: 05/06/1992
 Page: 2

NET Pacific, Inc

Ref: 1401 Grand Ave., San Leandro, Project No. 10-91-001

SAMPLE DESCRIPTION: B-5 @ 10'
 Date Taken: 04/14/1992
 Time Taken:
 LAB Job No: (-120513)

Parameter	Method	Reporting Limit	Results	Units
TPH (Gas/BTXE,Solid)			--	
METHOD 5030 (GC,FID)			--	
DATE ANALYZED			04-28-92	
DILUTION FACTOR*			1	
as Gasoline	5030	1	ND	mg/Kg
METHOD 8020 (GC,Solid)			--	
DATE ANALYZED			04-28-92	
DILUTION FACTOR*			1	
Benzene	8020	2.5	ND	ug/Kg
Ethylbenzene	8020	2.5	ND	ug/Kg
Toluene	8020	2.5	ND	ug/Kg
Xylenes (Total)	8020	2.5	ND	ug/Kg
SURROGATE RESULTS			--	
Bromofluorobenzene	5030		76	% Rec.



Client Acct: 65400
 Client Name: Aegis Environmental Inc.
 NET Job No: 92.2210

Date: 05/06/1992
 Page: 3

NET Pacific, Inc

Ref: 1401 Grand Ave., San Leandro, Project No. 10-91-001

SAMPLE DESCRIPTION: B-5 @ 20'
 Date Taken: 04/14/1992
 Time Taken:
 LAB Job No: (-120514)

Parameter	Method	Reporting Limit	Results	Units
TPH (Gas/BTXE,Solid)			--	
METHOD 5030 (GC,FID)			04-28-92	
DATE ANALYZED			1	
DILUTION FACTOR*			1	
as Gasoline	5030	1	ND	mg/Kg
METHOD 8020 (GC,Solid)			--	
DATE ANALYZED			04-28-92	
DILUTION FACTOR*			1	
Benzene	8020	2.5	ND	ug/Kg
Ethylbenzene	8020	2.5	ND	ug/Kg
Toluene	8020	2.5	ND	ug/Kg
Xylenes (Total)	8020	2.5	ND	ug/Kg
SURROGATE RESULTS			--	
Bromofluorobenzene	5030		97	% Rec.



Client Acct: 65400
 Client Name: Aegis Environmental Inc.
 NET Job No: 92.2210

Date: 05/06/1992
 Page: 4

NET Pacific, Inc

Ref: 1401 Grand Ave., San Leandro, Project No. 10-91-001

SAMPLE DESCRIPTION: B-5 @ 25'
 Date Taken: 04/14/1992
 Time Taken:
 LAB Job No: (-120515)

Parameter	Method	Reporting Limit	Results	Units
TPH (Gas/BTXE,Solid)			--	
METHOD 5030 (GC,FID)			04-28-92	
DATE ANALYZED			1	
DILUTION FACTOR*			1	
as Gasoline	5030	1	2.6	mg/Kg
METHOD 8020 (GC,Solid)			--	
DATE ANALYZED			04-28-92	
DILUTION FACTOR*			1	
Benzene	8020	2.5	170	ug/Kg
Ethylbenzene	8020	2.5	75	ug/Kg
Toluene	8020	2.5	ND	ug/Kg
Xylenes (Total)	8020	2.5	59	ug/Kg
SURROGATE RESULTS			--	
Bromofluorobenzene	5030		115	% Rec.



Client Acct: 65400
 Client Name: Aegis Environmental Inc.
 NET Job No: 92.2210

Date: 05/06/1992
 Page: 5

NET Pacific, Inc

Ref: 1401 Grand Ave., San Leandro, Project No. 10-91-001

SAMPLE DESCRIPTION: B-5 @ 30'
 Date Taken: 04/14/1992
 Time Taken:
 LAB Job No: (-120516)

Parameter	Method	Reporting Limit	Results	Units
TPH (Gas/BTXE,Solid)			--	
METHOD 5030 (GC,FID)			--	
DATE ANALYZED			04-28-92	
DILUTION FACTOR*			1	
as Gasoline	5030	1	3.5	mg/Kg
METHOD 8020 (GC,Solid)			--	
DATE ANALYZED			04-28-92	
DILUTION FACTOR*			1	
Benzene	8020	2.5	190	ug/Kg
Ethylbenzene	8020	2.5	99	ug/Kg
Toluene	8020	2.5	3.7	ug/Kg
Xylenes (Total)	8020	2.5	120	ug/Kg
SURROGATE RESULTS			--	
Bromofluorobenzene	5030		115	% Rec.



Client Acct: 65400
 Client Name: Aegis Environmental Inc.
 NET Job No: 92.2210

Date: 05/06/1992
 Page: 6

NET Pacific, Inc

Ref: 1401 Grand Ave., San Leandro, Project No. 10-91-001

SAMPLE DESCRIPTION: B-5 @ 35'
 Date Taken: 04/14/1992
 Time Taken:
 LAB Job No: (-120517)

Parameter	Method	Reporting Limit	Results	Units
TPH (Gas/BTXE,Solid)			--	
METHOD 5030 (GC,FID)			04-28-92	
DATE ANALYZED			1	
DILUTION FACTOR*			1.0	mg/Kg
as Gasoline	5030	1		
METHOD 8020 (GC,Solid)			--	
DATE ANALYZED			04-28-92	
DILUTION FACTOR*			1	
Benzene	8020	2.5	170	ug/Kg
Ethylbenzene	8020	2.5	21	ug/Kg
Toluene	8020	2.5	67	ug/Kg
Xylenes (Total)	8020	2.5	67	ug/Kg
SURROGATE RESULTS			--	
Bromofluorobenzene	5030		100	% Rec.



Client Acct: 65400
 Client Name: Aegis Environmental Inc.
 NET Job No: 92.2210

Date: 05/06/1992
 Page: 7

NET Pacific, Inc

Ref: 1401 Grand Ave., San Leandro, Project No. 10-91-001

SAMPLE DESCRIPTION: B-5 @ 40'
 Date Taken: 04/14/1992
 Time Taken:
 LAB Job No: (-120518)

Parameter	Method	Reporting Limit	Results	Units
TPH (Gas/BTXE,Solid)			--	
METHOD 5030 (GC,FID)				
DATE ANALYZED			04-28-92	
DILUTION FACTOR*			1	
as Gasoline	5030	1	ND	mg/Kg
METHOD 8020 (GC,Solid)			--	
DATE ANALYZED			04-28-92	
DILUTION FACTOR*			1	
Benzene	8020	2.5	76	ug/Kg
Ethylbenzene	8020	2.5	4.6	ug/Kg
Toluene	8020	2.5	40	ug/Kg
Xylenes (Total)	8020	2.5	18	ug/Kg
SURROGATE RESULTS			--	
Bromofluorobenzene	5030		100	% Rec.



Client Acct: 65400
 Client Name: Aegis Environmental Inc.
 NET Job No: 92.2210

Date: 05/06/1992
 Page: 8

NET Pacific, Inc

Ref: 1401 Grand Ave., San Leandro, Project No. 10-91-001

SAMPLE DESCRIPTION: B-5 @ 45'
 Date Taken: 04/14/1992
 Time Taken:
 LAB Job No: (-120519)

Parameter	Method	Reporting Limit	Results	Units
Lead (GFAA)	EPA 7421	0.2	ND	mg/Kg
TPH (Gas/BTXE,Solid)				
METHOD 5030 (GC,FID)				
DATE ANALYZED			04-28-92	
DILUTION FACTOR*			100	
as Gasoline	5030	1	900	mg/Kg
METHOD 8020 (GC,Solid)				
DATE ANALYZED			04-28-92	
DILUTION FACTOR*			500	
Benzene	8020	2.5	2,400	ug/Kg
Ethylbenzene	8020	2.5	8,900	ug/Kg
Toluene	8020	2.5	18,000	ug/Kg
Xylenes (Total)	8020	2.5	53,000	ug/Kg
SURROGATE RESULTS				
Bromofluorobenzene	5030		110	% Rec.



Client Acct: 65400
 Client Name: Aegis Environmental Inc.
 NET Job No: 92.2210

Date: 05/06/1992
 Page: 9

NET Pacific, Inc

Ref: 1401 Grand Ave., San Leandro, Project No. 10-91-001

SAMPLE DESCRIPTION: B-5 @ 50'
 Date Taken: 04/14/1992
 Time Taken:
 LAB Job No: (-120520)

Parameter	Method	Reporting Limit	Results	Units
TPH (Gas/BTXE,Solid)			--	
METHOD 5030 (GC,FID)			04-28-92	
DATE ANALYZED			1	
DILUTION FACTOR*			2.6	mg/Kg
as Gasoline	5030	1	--	
METHOD 8020 (GC,Solid)			04-28-92	
DATE ANALYZED			10	
DILUTION FACTOR*			240	ug/Kg
Benzene	8020	2.5	39	ug/Kg
Ethylbenzene	8020	2.5	320	ug/Kg
Toluene	8020	2.5	170	ug/Kg
Xylenes (Total)	8020	2.5		
SURROGATE RESULTS			--	
Bromofluorobenzene	5030		117	% Rec.



Client Acct: 65400
 Client Name: Aegis Environmental Inc.
 NET Job No: 92.2210

Date: 05/06/1992
 Page: 10

NET Pacific, Inc

Ref: 1401 Grand Ave., San Leandro, Project No. 10-91-001

SAMPLE DESCRIPTION: B-5 @ 55'
 Date Taken: 04/14/1992
 Time Taken:
 LAB Job No: (-120521)

Parameter	Method	Reporting Limit	Results	Units
Lead (GFAA)	EPA 7421	0.2	ND	mg/Kg
TPH (Gas/BTXE,Solid)				
METHOD 5030 (GC,FID)				
DATE ANALYZED			04-28-92	
DILUTION FACTOR*			100	
as Gasoline	5030	1	760	mg/Kg
METHOD 8020 (GC,Solid)				
DATE ANALYZED			04-28-92	
DILUTION FACTOR*			500	
Benzene	8020	2.5	5,700	ug/Kg
Ethylbenzene	8020	2.5	10,000	ug/Kg
Toluene	8020	2.5	24,000	ug/Kg
Xylenes (Total)	8020	2.5	53,000	ug/Kg
SURROGATE RESULTS				
Bromofluorobenzene	5030		118	% Rec.



NET Pacific, Inc

Client Acct: 65400
Client Name: Aegis Environmental Inc.
NET Job No: 92.2210

Date: 05/06/1992
Page: 11

Ref: 1401 Grand Ave., San Leandro, Project No. 10-91-001

SAMPLE DESCRIPTION: B-6 @ 5'
Date Taken: 04/15/1992
Time Taken:
LAB Job No: (-120522)

Parameter	Method	Reporting Limit	Results	Units
TPH (Gas/BTXE,Solid)			--	
METHOD 5030 (GC,FID)			04-29-92	
DATE ANALYZED			1	
DILUTION FACTOR*			1	
as Gasoline	5030	1	ND	mg/Kg
METHOD 8020 (GC,Solid)			--	
DATE ANALYZED			04-29-92	
DILUTION FACTOR*			1	
Benzene	8020	2.5	ND	ug/Kg
Ethylbenzene	8020	2.5	ND	ug/Kg
Toluene	8020	2.5	6.0	ug/Kg
Xylenes (Total)	8020	2.5	7.8	ug/Kg
SURROGATE RESULTS			--	
Bromofluorobenzene	5030		69**	% Rec.

** Low surrogate recovery due to matrix interference.



Client Acct: 65400
 Client Name: Aegis Environmental Inc.
 NET Job No: 92.2210

Date: 05/06/1992
 Page: 12

NET Pacific, Inc

Ref: 1401 Grand Ave., San Leandro, Project No. 10-91-001

SAMPLE DESCRIPTION: B-6 @ 15'
 Date Taken: 04/15/1992
 Time Taken:
 LAB Job No: (-120523)

Parameter	Method	Reporting Limit	Results	Units
TPH (Gas/BTXE,Solid)			--	
METHOD 5030 (GC,FID)				
DATE ANALYZED			04-29-92	
DILUTION FACTOR*			1	
as Gasoline	5030	1	ND	mg/Kg
METHOD 8020 (GC,Solid)				
DATE ANALYZED			04-29-92	
DILUTION FACTOR*			1	
Benzene	8020	2.5	ND	ug/Kg
Ethylbenzene	8020	2.5	ND	ug/Kg
Toluene	8020	2.5	ND	ug/Kg
Xylenes (Total)	8020	2.5	ND	ug/Kg
SURROGATE RESULTS				
Bromofluorobenzene	5030		93	% Rec.



Client Acct: 65400
 Client Name: Aegis Environmental Inc.
 NET Job No: 92.2210

Date: 05/06/1992
 Page: 13

NET Pacific, Inc

Ref: 1401 Grand Ave., San Leandro, Project No. 10-91-001

SAMPLE DESCRIPTION: B-6 @ 25'
 Date Taken: 04/15/1992
 Time Taken:
 LAB Job No: (-120524)

Parameter	Method	Reporting Limit	Results	Units
TPH (Gas/BTEX, Solid)			--	
METHOD 5030 (GC, FID)			04-29-92	
DATE ANALYZED			1	
DILUTION FACTOR*			1	
as Gasoline	5030	1	1.4	mg/Kg
METHOD 8020 (GC, Solid)			--	
DATE ANALYZED			04-29-92	
DILUTION FACTOR*			1	
Benzene	8020	2.5	81	ug/Kg
Ethylbenzene	8020	2.5	5.5	ug/Kg
Toluene	8020	2.5	2.4	ug/Kg
Xylenes (Total)	8020	2.5	8.7	ug/Kg
SURROGATE RESULTS			--	
Bromofluorobenzene	5030		80	% Rec.



Client Acct: 65400
 Client Name: Aegis Environmental Inc.
 NET Job No: 92.2210

Date: 05/06/1992
 Page: 14

NET Pacific, Inc

Ref: 1401 Grand Ave., San Leandro, Project No. 10-91-001

SAMPLE DESCRIPTION: B-6 @ 35'
 Date Taken: 04/15/1992
 Time Taken:
 LAB Job No: (-120525)

Parameter	Method	Reporting Limit	Results	Units
TPH (Gas/BTXE,Solid)			--	
METHOD 5030 (GC,FID)				
DATE ANALYZED			04-29-92	
DILUTION FACTOR*			1	
as Gasoline	5030	1	1.7	mg/Kg
METHOD 8020 (GC,Solid)			--	
DATE ANALYZED			04-29-92	
DILUTION FACTOR*			1	
Benzene	8020	2.5	160	ug/Kg
Ethylbenzene	8020	2.5	6.5	ug/Kg
Toluene	8020	2.5	22	ug/Kg
Xylenes (Total)	8020	2.5	20	ug/Kg
SURROGATE RESULTS			--	
Bromofluorobenzene	5030		103	% Rec.



Client Acct: 65400
 Client Name: Aegis Environmental Inc.
 NET Job No: 92.2210

Date: 05/06/1992
 Page: 15

NET Pacific, Inc

Ref: 1401 Grand Ave., San Leandro, Project No. 10-91-001

SAMPLE DESCRIPTION: B-6 @ 45'
 Date Taken: 04/15/1992
 Time Taken:
 LAB Job No: (-120526)

Parameter	Method	Reporting Limit	Results	Units
TPH (Gas/BTXE,Solid)			--	
METHOD 5030 (GC,FID)				
DATE ANALYZED			04-29-92	
DILUTION FACTOR*			100	
as Gasoline	5030	1	510	mg/Kg
METHOD 8020 (GC,Solid)			--	
DATE ANALYZED			04-29-92	
DILUTION FACTOR*			100	
Benzene	8020	2.5	940	ug/Kg
Ethylbenzene	8020	2.5	2,200	ug/Kg
Toluene	8020	2.5	470	ug/Kg
Xylenes (Total)	8020	2.5	8,600	ug/Kg
SURROGATE RESULTS			--	
Bromofluorobenzene	5030		120	% Rec.



Client Acct: 65400
 Client Name: Aegis Environmental Inc.
 NET Job No: 92.2210

Date: 05/06/1992
 Page: 16

NET Pacific, Inc

Ref: 1401 Grand Ave., San Leandro, Project No. 10-91-001

SAMPLE DESCRIPTION: B-6 @ 55'
 Date Taken: 04/15/1992
 Time Taken:
 LAB Job No: (-120527)

Parameter	Method	Reporting Limit	Results	Units
TPH (Gas/BTXE,Solid)			--	
METHOD 5030 (GC,FID)			04-27-92	
DATE ANALYZED			1	
DILUTION FACTOR*			1	
as Gasoline	5030	1	ND	mg/Kg
METHOD 8020 (GC,Solid)			--	
DATE ANALYZED			04-27-92	
DILUTION FACTOR*			1	
Benzene	8020	2.5	23	ug/Kg
Ethylbenzene	8020	2.5	8.4	ug/Kg
Toluene	8020	2.5	8.3	ug/Kg
Xylenes (Total)	8020	2.5	29	ug/Kg
SURROGATE RESULTS			--	
Bromofluorobenzene	5030		111	% Rec.



Client Acct: 65400
 Client Name: Aegis Environmental Inc.
 NET Job No: 92.2210

Date: 05/06/1992
 Page: 17

NET Pacific, Inc

Ref: 1401 Grand Ave., San Leandro, Project No. 10-91-001

SAMPLE DESCRIPTION: B-7 @ 10'
 Date Taken: 04/15/1992
 Time Taken:
 LAB Job No: (-120528)

Parameter	Method	Reporting Limit	Results	Units
TPH (Gas/BTXE,Solid)			--	
METHOD 5030 (GC,FID)			04-29-92	
DATE ANALYZED			1	
DILUTION FACTOR*			1	
as Gasoline	5030	1	ND	mg/Kg
METHOD 8020 (GC,Solid)			--	
DATE ANALYZED			04-29-92	
DILUTION FACTOR*			1	
Benzene	8020	2.5	ND	ug/Kg
Ethylbenzene	8020	2.5	ND	ug/Kg
Toluene	8020	2.5	ND	ug/Kg
Xylenes (Total)	8020	2.5	ND	ug/Kg
SURROGATE RESULTS			--	
Bromofluorobenzene	5030		90	% Rec.



NET Pacific, Inc

Client Acct: 65400
Client Name: Aegis Environmental Inc.
NET Job No: 92.2210

Date: 05/06/1992
Page: 18

Ref: 1401 Grand Ave., San Leandro, Project No. 10-91-001

SAMPLE DESCRIPTION: B-7 @ 20'
Date Taken: 04/15/1992
Time Taken:
LAB Job No: (-120529)

Parameter	Method	Reporting Limit	Results	Units
TPH (Gas/BTXE,Solid)			--	
METHOD 5030 (GC,FID)			04-29-92	
DATE ANALYZED			1	
DILUTION FACTOR*			1	
as Gasoline	5030	1	ND	mg/Kg
METHOD 8020 (GC,Solid)			--	
DATE ANALYZED			04-29-92	
DILUTION FACTOR*			1	
Benzene	8020	2.5	140	ug/Kg
Ethylbenzene	8020	2.5	ND	ug/Kg
Toluene	8020	2.5	ND	ug/Kg
Xylenes (Total)	8020	2.5	ND	ug/Kg
SURROGATE RESULTS			--	
Bromofluorobenzene	5030		89	% Rec.



Client Acct: 65400
 Client Name: Aegis Environmental Inc.
 NET Job No: 92.2210

Date: 05/06/1992
 Page: 19

NET Pacific, Inc

Ref: 1401 Grand Ave., San Leandro, Project No. 10-91-001

SAMPLE DESCRIPTION: B-7 @ 30'
 Date Taken: 04/15/1992
 Time Taken:
 LAB Job No: (-120530)

Parameter	Method	Reporting Limit	Results	Units
TPH (Gas/BTXE,Solid)			--	
METHOD 5030 (GC,FID)			04-29-92	
DATE ANALYZED			1	
DILUTION FACTOR*			ND	mg/Kg
as Gasoline	5030	1		
METHOD 8020 (GC,Solid)			--	
DATE ANALYZED			04-29-92	
DILUTION FACTOR*			1	
Benzene	8020	2.5	91	
Ethylbenzene	8020	2.5	7.8	ug/Kg
Toluene	8020	2.5	5.1	ug/Kg
Xylenes (Total)	8020	2.5	ND	ug/Kg
SURROGATE RESULTS			--	
Bromofluorobenzene	5030		82	% Rec.



Client Acct: 65400
 Client Name: Aegis Environmental Inc.
 NET Job No: 92.2210

Date: 05/06/1992
 Page: 20

NET Pacific, Inc

Ref: 1401 Grand Ave., San Leandro, Project No. 10-91-001

SAMPLE DESCRIPTION: B-7 @ 40'
 Date Taken: 04/15/1992
 Time Taken:
 LAB Job No: (-120531**)

Parameter	Method	Reporting Limit	Results	Units
TPH (Gas/BTXE, Solid)			--	
METHOD 5030 (GC, FID)			04-30-92	
DATE ANALYZED			1,000	
DILUTION FACTOR*			4,000	mg/Kg
as Gasoline	5030	1		
METHOD 8020 (GC, Solid)			--	
DATE ANALYZED			04-30-92	
DILUTION FACTOR*			1,000	
Benzene	8020	2.5	11,000	ug/Kg
Ethylbenzene	8020	2.5	25,000	ug/Kg
Toluene	8020	2.5	3,000	ug/Kg
Xylenes (Total)	8020	2.5	140,000	ug/Kg
SURROGATE RESULTS			--	
Bromofluorobenzene	5030		124	% Rec.

** Sample originally analyzed on 04-29-92.



Client Acct: 65400
 Client Name: Aegis Environmental Inc.
 NET Job No: 92.2210

Date: 05/06/1992
 Page: 21

NET Pacific, Inc

Ref: 1401 Grand Ave., San Leandro, Project No. 10-91-001

SAMPLE DESCRIPTION: B-7 @ 50'
 Date Taken: 04/15/1992
 Time Taken:
 LAB Job No: (-120532)

Parameter	Method	Reporting Limit	Results	Units
TPH (Gas/BTEX,Solid)			--	
METHOD 5030 (GC,FID)			04-29-92	
DATE ANALYZED			1	
DILUTION FACTOR*			1	
as Gasoline	5030	1	ND	mg/Kg
METHOD 8020 (GC,Solid)			--	
DATE ANALYZED			04-29-92	
DILUTION FACTOR*			1	
Benzene	8020	2.5	16	ug/Kg
Ethylbenzene	8020	2.5	ND	ug/Kg
Toluene	8020	2.5	ND	ug/Kg
Xylenes (Total)	8020	2.5	ND	ug/Kg
SURROGATE RESULTS			--	
Bromofluorobenzene	5030		100	% Rec.



Client Acct: 65400
 Client Name: Aegis Environmental Inc.
 NET Job No: 92.2210

Date: 05/06/1992
 Page: 22

NET Pacific, Inc

Ref: 1401 Grand Ave., San Leandro, Project No. 10-91-001

SAMPLE DESCRIPTION: SS-1
 Date Taken: 04/15/1992
 Time Taken:
 LAB Job No: (-120533)

Parameter	Method	Reporting Limit	Results	Units
Lead (GFAA,WET)	EPA 7421	0.01	0.044	mg/L
TPH (Gas/BTXE,Solid)				
METHOD 5030 (GC,FID)			--	
DATE ANALYZED			04-29-92	
DILUTION FACTOR*			100	
as Gasoline	5030	1	620	mg/Kg
METHOD 8020 (GC,Solid)			--	
DATE ANALYZED			04-29-92	
DILUTION FACTOR*			100	
Benzene	8020	2.5	ND	ug/Kg
Ethylbenzene	8020	2.5	3,000	ug/Kg
Toluene	8020	2.5	2,800	ug/Kg
Xylenes (Total)	8020	2.5	16,000	ug/Kg
SURROGATE RESULTS				
Bromofluorobenzene	5030		125	% Rec.



Client Acct: 65400
 Client Name: Aegis Environmental Inc.
 NET Job No: 92.2210

Date: 05/06/1992
 Page: 23

NET Pacific, Inc

Ref: 1401 Grand Ave., San Leandro, Project No. 10-91-001

SAMPLE DESCRIPTION: SS-2
 Date Taken: 04/15/1992
 Time Taken:
 LAB Job No: (-120534)

Parameter	Method	Reporting Limit	Results	Units
Lead (GFAA,WET)	EPA 7421	0.01	0.061	mg/L
TPH (Gas/BTXE,Solid)			--	
METHOD 5030 (GC,FID)			04-29-92	
DATE ANALYZED			10	
DILUTION FACTOR*			100	mg/Kg
as Gasoline	5030	1	--	
METHOD 8020 (GC,Solid)			04-29-92	
DATE ANALYZED			10	
DILUTION FACTOR*			ND	ug/Kg
Benzene	8020	2.5	150	ug/Kg
Ethylbenzene	8020	2.5	ND	ug/Kg
Toluene	8020	2.5	900	ug/Kg
Xylenes (Total)	8020	2.5		
SURROGATE RESULTS			--	
Bromofluorobenzene	5030		155**	% Rec.

** High surrogate recovery due to matrix interference.



NET Pacific, Inc

Client Acct: 65400
Client Name: Aegis Environmental Inc.
NET Job No: 92.2210

Date: 05/06/1992
Page: 24

Ref: 1401 Grand Ave., San Leandro, Project No. 10-91-001

QUALITY CONTROL DATA

Parameter	Reporting Limits	Units	Cal Verif Stand % Recovery	Blank Data	Spike % Recovery	Duplicate Spike % Recovery	RPD
Gasoline	1.0	mg/Kg	97	ND	88	94	7.0
Benzene	2.5	ug/Kg	90	ND	86	92	6.2
Toluene	2.5	ug/Kg	93	ND	95	98	2.7
Gasoline	1.0	mg/Kg	110	ND	100	91	4.9
Benzene	2.5	ug/Kg	89	ND	98	93	5.6
Toluene	2.5	ug/Kg	86	ND	101	100	<1
Gasoline	1.0	mg/Kg	98	ND	79	88	11
Benzene	2.5	ug/Kg	94	ND	89	92	2.6
Toluene	2.5	ug/Kg	97	ND	96	101	5.7
Gasoline	1.0	mg/Kg	105	ND	98	94	3.1
Benzene	2.5	ug/Kg	84	ND	88	85	2.9
Toluene	2.5	ug/Kg	87	ND	85	84	<1

COMMENT: Blank Results were ND on other analytes tested.

Lead	0.2	mg/Kg	103	ND	82	82	<1
WET-Lead	0.01	mg/L	98	ND	87	85	2.6



NET Pacific, Inc

KEY TO ABBREVIATIONS and METHOD REFERENCES

- < : Less than; When appearing in results column indicates analyte not detected at the value following. This datum supercedes the listed Reporting Limit.
- * : Reporting Limits are a function of the dilution factor for any given sample. To obtain the actual reporting limits for this sample, multiply the stated Reporting Limits by the dilution factor (but do not multiply reported values).
- ICVS : Initial Calibration Verification Standard (External Standard).
- mean : Average; sum of measurements divided by number of measurements.
- mg/Kg (ppm) : Concentration in units of milligrams of analyte per kilogram of sample, wet-weight basis (parts per million).
- mg/L : Concentration in units of milligrams of analyte per liter of sample.
- mL/L/hr : Milliliters per liter per hour.
- MPN/100 mL : Most probable number of bacteria per one hundred milliliters of sample.
- N/A : Not applicable.
- NA : Not analyzed.
- ND : Not detected; the analyte concentration is less than applicable listed reporting limit.
- NTU : Nephelometric turbidity units.
- RPD : Relative percent difference, $100 \text{ [Value 1 - Value 2] / mean value}$.
- SNA : Standard not available.
- ug/Kg (ppb) : Concentration in units of micrograms of analyte per kilogram of sample, wet-weight basis (parts per billion).
- ug/L : Concentration in units of micrograms of analyte per liter of sample.
- umhos/cm : Micromhos per centimeter.

Method References

Methods 100 through 493: see "Methods for Chemical Analysis of Water & Wastes", U.S. EPA, 600/4-79-020, rev. 1983.

Methods 601 through 625: see "Guidelines Establishing Test Procedures for the Analysis of Pollutants" U.S. EPA, 40 CFR, Part 136, rev. 1988.

Methods 1000 through 9999: see "Test Methods for Evaluating Solid Waste", U.S. EPA SW-846, 3rd edition, 1986.

SM: see "Standard Methods for the Examination of Water & Wastewater, 17th Edition, APHA, 1989.

Phone (916) 782 2110
 FAX (916) 786-7830

AEGIS Environmental Consultants, Inc.

Sample Identification/Field Chain of Custody Record

5723

Send results to:
 Aegis Environmental
 1050 Melody Lane, Suite 160
 Roseville, CA 95678

Site Address: 1401 Grand Avenue, San Leandro, CA
 AEGIS Project #: 10-91-001
 Shipped By: _____
 Shipped To: _____
 Project Manager: Brian Garber

(CHAIN OF CUSTODY)

(6:30)

J. Bean

For Shell Projects Only
 WIC: _____
 AFE: _____
 CT/DL: _____
 Shell Engineer: _____
 Hazardous Materials Suspected? (yes/no)

Sampling Point	Location	Field ID#	Date	Sample Type	No. of Containers	Analysis Required
5 feet below grade	soil boring, B-5	B-5 @ 5'	April 14, 1992	brass/soil	1	
10 feet below grade	soil boring, B-5	B-5 @ 10'	April 14, 1992	brass/soil	1	TPH-G BTEX
15 feet below grade	soil boring, B-5	B-5 @ 15'	April 14, 1992	brass/soil	1	
20 feet below grade	soil boring, B-5	B-5 @ 20'	April 14, 1992	brass/soil	1	TPH-G BTEX
25 feet below grade	soil boring, B-5	B-5 @ 25'	April 14, 1992	brass/soil	1	
30 feet below grade	soil boring, B-5	B-5 @ 30'	April 14, 1992	brass/soil	1	
35 feet below grade	soil boring, B-5	B-5 @ 35'	April 14, 1992	brass/soil	1	
40 feet below grade	soil boring, B-5	B-5 @ 40'	April 14, 1992	brass/soil	1	↓

Sampler(s) (signature) _____

Field ID	Relinquished By (signature)	Received By (signature)	Date/Time	Comments
	<i>Judie Conall</i> <i>Jean Bean 4/20/92</i>	<i>J. Bean</i> (VIA NCS)	4-20 3:00 PM	

Scaled for shipment by: (signature) _____ Date/Time: _____ Shipment Method: _____

Received for Lab by: (signature) *[Signature]* Date/Time: 4/21/92 0800 Comments: _____

Receiving Laboratory: Please return original form after signing for receipt of samples.



Phone (916) 782 2110
 FAX (916) 786-7830

AEGIS Environmental Consultants, Inc.

Sample Identification/Field Chain of Custody Record

Send results to:
 Aegis Environmental
 1050 Melody Lane, Suite 160
 Roseville, CA 95678

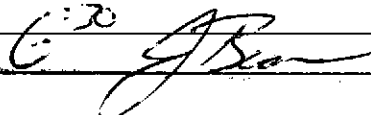
Site Address: 1401 Grand Avenue, San Leandro, CA

AEGIS Project #: 10-91-001

Shipped By: _____

Shipped To: _____

Project Manager Brian Garber

RECEIVED BY ALLI 4/20


For Shell Projects Only

WIC: _____

AFE: _____

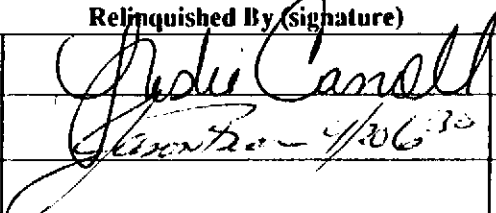
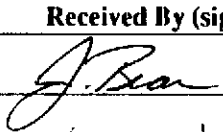
CT/DL: _____

Shell Engineer: _____

Hazardous Materials Suspected? (yes/no)

Sampling Point	Location	Field ID#	Date	Sample Type	No. of Containers	Analysis Required
45 feet below grade	soil boring, B-5	B-5 @ 45'	April 14, 1992	brass/soil	1	TPH-G BTEX lead
50 feet below grade	soil boring, B-5	B-5 @ 50'	April 14, 1992	brass/soil	1	↓
55 feet below grade	soil boring, B-5	B-5 @ 55'	April 14, 1992	brass/soil	1	
5 feet below grade	soil boring, B-6	B-6 @ 5'	April 15, 1992	brass/soil	1	TPH-G BTEX ← lead
10 feet below grade	soil boring, B-6	B-6 @ 10'	April 15, 1992	brass/soil	1	---
15 feet below grade	soil boring, B-6	B-6 @ 15'	April 15, 1992	brass/soil	1	TPH-G BTEX
20 feet below grade	soil boring, B-6	B-6 @ 20'	April 15, 1992	brass/soil	1	---
25 feet below grade	soil boring, B-6	B-6 @ 25'	April 15, 1992	brass/soil	1	TPH-G BTEX

Sampler(s) (signature) _____

Field ID	Relinquished By (signature)	Received By (signature)	Date/Time	Comments
			4-20 3:00	
	<u>Judi Canell 4/20/92</u>	(COA NCS)		

Sealed for shipment by: (signature) _____ Date/Time: _____ Shipment Method: _____

Received for Lab by: (signature) W. [unclear] Date/Time: 4/21/92 0800 Comments: Run TPH-G and BTEX

on B-5 @ 45', 50', 55' and on B-6 @ 5', 15', 25' and lead on samples indicated.

Receiving Laboratory: Please return original form after signing for receipt of samples.



Phone (916) 782 2110
 FAX (916) 786-7830

AEGIS Environmental Consultants, Inc.

Sample Identification/Field Chain of Custody Record

Send results to:
 Aegis Environmental
 1050 Melody Lane, Suite 160
 Roseville, CA 95678

Site Address: 1401 Grand Avenue, San Leandro, CA
 AEGIS Project #: 10-91-001
 Shipped By: _____
 Shipped To: _____
 Project Manager: Brian Garber

(CUSTODY STARTED 4/20)
 6:30
J. Bear

For Shell Projects Only
 WIC: _____
 AFE: _____
 CT/DL: _____
 Shell Engineer: _____
 Hazardous Materials Suspected? (yes/no)

NET

Sampling Point	Location	Field ID#	Date	Sample Type	No. of Containers	Analysis Required
+ 30 feet below grade	soil boring, B-6	B-6 @ 30'	April 15, 1992	brass/soil	1	
+ 35 feet below grade	soil boring, B-6	B-6 @ 35'	April 15, 1992	brass/soil	1	TPH-G BTEX
- 40 feet below grade	soil boring, B-6	B-6 @ 40'	April 15, 1992	brass/soil	1	
+ 45 feet below grade	soil boring, B-6	B-6 @ 45'	April 15, 1992	brass/soil	1	TPH-G BTEX
- 50 feet below grade	soil boring, B-6	B-6 @ 50'	April 15, 1992	brass/soil	1	
+ 55 feet below grade	soil boring, B-6	B-6 @ 55'	April 15, 1992	brass/soil	1	TPH-G BTEX
- 5 feet below grade	soil boring, B-7	B-7 @ 5'	April 15, 1992	brass/soil	1	
+ 10 feet below grade	soil boring, B-7	B-7 @ 10'	April 15, 1992	brass/soil	1	TPH-G BTEX

Sampler(s) (signature) _____

Field ID	Relinquished By (signature)	Received By (signature)	Date/Time	Comments
	<i>Judi Canell</i> <i>Brian Garber 4/20 6:30</i>	<i>J. Bear</i> (with AEGIS)	4-20 3 ³⁰ PM	

Scaled for shipment by: (signature) _____ Date/Time: _____ Shipment Method: _____

Received for Lab by: (signature) *[Signature]* Date/Time: 4/21/92 0800 Comments: _____

Receiving Laboratory: Please return original form after signing for receipt of samples.



Phone (916) 782 2110
 FAX (916) 786-7830

AEGIS Environmental Consultants, Inc.

Sample Identification/Field Chain of Custody Record

5023

Send results to:
 Aegis Environmental
 1050 Melody Lane, Suite 160
 Roseville, CA 95678

Site Address: 1401 Grand Avenue, San Leandro, CA

AEGIS Project #: 10-91-001

Shipped By: _____

Shipped To: _____

Project Manager: Brian Garber

RECEIVED BY: J. Bean 4/20
 6:30 pm seal intact

For Shell Projects Only

WIC: _____

AFE: _____

CT/DL: _____

Shell Engineer: _____

Hazardous Materials Suspected? (yes/no)

Sampling Point	Location	Field ID#	Date	Sample Type	No. of Containers	Analysis Required
Soil Stockpile	Adjacent to building	SS-1	April 15, 1992	Brass/soil	1	TPH-G BTEX STC-CAD
Soil stockpile	Adjacent to building	SS-2	April 15, 1992	Brass/soil	1	↓

Sampler(s) (signature) _____

Field ID	Relinquished By (signature)	Received By (signature)	Date/Time	Comments
	<u>Judie Canell</u> <u>J. Bean 4/20 6:30 pm</u>	<u>J. Bean</u> (VIANCIS)	4-20 5:00	

Scaled for shipment by: (signature) _____ Date/Time: _____ Shipment Method: _____

Received for Lab by: (signature) 14 samples Date/Time: 4/21/92 0800 Comments: _____

Receiving Laboratory: Please return original form after signing for receipt of samples.



Phone (916) 782 2110
 FAX (916) 786-7830

AEGIS Environmental Consultants, Inc.

Sample Identification/Field Chain of Custody Record

5823 Send results to:
 Aegis Environmental
 1050 Melody Lane, Suite 160
 Roseville, CA 95678

Site Address: 1401 Grand Avenue, San Leandro, CA
 AEGIS Project #: 10-91-001
 Shipped By: _____
 Shipped To: _____
 Project Manager Brian Garber (6:30 PM J. Bean qualified)

For Shell Projects Only
 WIC: _____
 AFE: _____
 CT/DL: _____
 Shell Engineer: _____
 Hazardous Materials Suspected? (yes/no)

Sampling Point	Location	Field ID#	Date	Sample Type	No. of Containers	Analysis Required
15 feet below grade	soil boring, B-7	B-7 @ 15'	April 15, 1992	Brass/soil	1	
+ 20 feet below grade	soil boring, B-7	B-7 @ 20'	April 15, 1992	Brass/soil	1	TPH-G BTEX
- 25 feet below grade	soil boring, B-7	B-7 @ 25'	April 15, 1992	Brass/soil	1	
+ 30 feet below grade	soil boring, B-7	B-7 @ 30'	April 15, 1992	Brass/soil	1	TPH-G BTEX
- 35 feet below grade	soil boring, B-7	B-7 @ 35'	April 15, 1992	Brass/soil	1	
- 40 feet below grade	soil boring, B-7	B-7 @ 40'	April 15, 1992	Brass/soil	1	TPH-G BTEX
- 45 feet below grade	soil boring, B-7	B-7 @ 45'	April 15, 1992	Brass/soil	1	
+ 50 feet below grade	soil boring, B-7	B-7 @ 50'	April 15, 1992	Brass/soil	1	TPH-G BTEX

Sampler(s) (signature) _____

Field ID	Relinquished By (signature)	Received By (signature)	Date/Time		Comments
	Judis Conell J. Bean 4/20/92	J. Bean (via ACS)	4-20	3:00	

Sealed for shipment by: (signature) _____ Date/Time: _____ Shipment Method: _____

Received for Lab by: (signature) J. Bean Date/Time: 4/21/92 Comments: _____

Receiving Laboratory: Please return original form after signing for receipt of samples.