CAMBRIA

September 8, 1999

Mr. Scott Seery
Alameda County Health Care Services Agency
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502-6577

Re: **Subsurface Investigation Report**
Shell-branded Service Station
350 Grand Avenue
Oakland, California
Incident # 98995755
Cambria Project #241-0715

Dear Mr. Seery:

In accordance with Alameda County Health Care Services Agency (ACHCSA) correspondence dated January 26, 1999, Cambria Environmental Technology, Inc. (Cambria) is submitting this *Subsurface Investigation Report* on behalf of Equiva Services LLC (Equiva). The scope of this investigation included advancing three soil borings to evaluate whether utility conduit trenches adjacent to the site serve as preferential pathways for the migration of petroleum hydrocarbons and methyl tertiary butyl ether (MTBE) from the site. The site background, summary of previous investigations, and investigation results are presented below.

SITE SUMMARY

Site Description: The site is an active Shell-branded Service Station, located at the northeast corner of the intersection of Grand Avenue and Perkins Street in Oakland, California (Figure 1). Lakeside Park is located at the southwest corner of this intersection. The area surrounding the site consists of mixed commercial and residential properties.

Soil Lithology: The site is underlain by silty and sandy clays of low to moderate estimated permeability to an explored depth of 20 feet below ground surface (ft bgs).

Groundwater Flow Direction and Depth: Groundwater generally flows is southerly direction. Depth to water ranges between 7 and 15 ft bgs.

Oakland, CA
Sonoma, CA
Portland, OR
Seattle, WA

Cambria Environmental Technology, Inc.

1144 65th Street
Suite B
Oakland, CA 94608
Tel (510) 420-0700
Fax (510) 420-9170

1990 Soil Borings: On May 11, 1990, GeoStrategies Inc. of Hayward, California (GSI) drilled five exploratory soil borings with a hollow-stem auger drilling rig. The highest hydrocarbon concentration in soil was in boring S-A, located at the southwest corner of the property in the vicinity of the gasoline underground storage tanks (USTs). Levels detected at a depth of 9.5 feet below ground surface (ft bgs) in this area were 2,900 milligrams per kilogram (mg/kg) total petroleum hydrocarbons as gasoline (TPHg), 2,400 mg/kg total petroleum hydrocarbons as diesel (TPHd), and 13 mg/kg benzene.

1991 Monitoring Well Installation: On January 7, 1991, GSI installed three monitoring wells at the site (Figure 2). The highest hydrocarbon concentrations in soil and groundwater were in well S-2, located at the southwest corner of the property in the vicinity of the gasoline USTs. Detected levels were 440 mg/kg TPHg, 360 mg/kg TPHd, and 4.5 mg/kg benzene in soil at 8.5 ft bgs; and 2,500 micrograms per liter (µg/L) TPHg, 1,200 µg/L TPHd, and 550 µg/L benzene in groundwater. No TPHg, TPHd, or benzene was detected in the groundwater sample from well S-1.

1993 Hydropunch Borings: On January 27, 1993, GSI installed three hydropunch borings off site (Figure 2). The highest hydrocarbon concentrations were detected in boring HP-1, located cross gradient of the USTs. Levels were 1,500 mg/kg TPHg, 18 mg/kg TPHd, and 0.11 mg/kg benzene in soil at 6.5 ft bgs; and 22,000 µg/L TPHg, 14,000 µg/L TPHd, and 2,500 µg/L benzene in groundwater. TPHg and benzene were not detected in soil and groundwater samples from borings HP-2 and HP-3, located downgradient of the USTs.

1996 Tank Removal: On April 22, 1996, Weiss Associates of Emeryville, California (WA) observed the removal of three 10,000-gallon gasoline USTs and one 10,000-gallon diesel UST and collected soil samples. Up to 4,800 mg/kg TPHg, 2,800 mg/kg TPHd, and 22 mg/kg benzene were detected in samples collected from the UST excavation, product piping trenches, and beneath the product dispensers.

1998 Potential Receptor Survey: In April 1998, Cambria identified wells and surface water bodies within a one-half mile radius of the site. Three water producing wells are located between three-quarters and one-half mile cross gradient of the site. Lake Merritt is located approximately one-eighth of a mile downgradient of the site. The results of the potential receptor survey were presented to the ACHCSA in Cambria's May 31, 1998 *MTBE Investigation Report.*

1998 Geoprobe Well Installation: On April 16, 1998, Cambria installed two three-quarter inch diameter pre-packed wells within the Grand Avenue right of way, downgradient of the site. No TPHg, benzene, toluene, ethylbenzene, or xylenes (BTEX), or MTBE were detected in soil or groundwater in the borings.

INVESTIGATION PROCEDURES

Three Geoprobe™ soil borings were installed to evaluate whether utility conduit trenches serve as preferential pathways for the migration of contaminated groundwater. Boring locations (Figure 2) were based on the groundwater flow direction and the location of utility conduits adjacent to and down-gradient from the subject facility. Soil samples were collected for chemical analysis from the unsaturated zone at 5 ft intervals from each boring. Grab groundwater samples were collected from each boring from within the utility conduit trenches.

Soil Borings and Sampling Activities: C.U. Surveys of San Ramon California, performed a utility survey to locate the sanitary sewer line adjacent to the site on the south side, running adjacent to Grand Avenue. C.U. Surveys provided the location of the sanitary sewer line as well as the approximate depth of the line (approximately 10 feet bgs). Using a Geoprobe drill rig, Gregg Drilling advanced soil borings HP-4 and HP-5 within the sanitary sewer conduit trench along the north sidewalk on Grand Ave. HP-6 was advanced within Perkins Street. Soil borings, HP-4, HP-5, and HP-6 were advanced to 15.5, 15, and 20 ft bgs, respectively. Our standard field procedures for soil borings are presented as Attachment A. Soil boring logs are presented as Attachment B. During field activities, Cambria collected soil samples at a minimum of five-foot intervals, at lithologic changes, and from immediately above the water table. Samples were selected for chemical analysis based on observations of staining and odor and on the results of field screening with a photoionization detector (PID). Groundwater samples were collected from each boring from within the trench fill material.

Permits: Soil boring permits were obtained from the Alameda County Public Works Agency (ACPWA) for the installation of three soil borings (permit # 99WR059).

Drilling Date: March 17, 1999.

Drilling Company: Gregg Drilling of Martinez, California (C-57 License #485165).

Personnel Present:	*Tiltle:*	*Company:*
Troy Buggle	Sr. Staff Scientist	Cambria
Paul Rodgers	Driller	Gregg Drilling

Laboratory Analyses: Selected soil samples and water samples from each boring were analyzed for:

- TPPH by EPA Method 8015,
- TEPH by EPA Method 8015, and
- BTEX and MTBE by EPA Method 8020.

Due to laboratory oversight, the EPA method 8260 analysis for the confirmation of MTBE concentrations were not performed as requested by Cambria. Analytical results are summarized in Table 1 and Analytical Laboratory Reports are included in Attachment C.

INVESTIGATION RESULTS

Hydrocarbon Distribution in Soil: Petroleum hydrocarbon impact to soils in the utility trenches is limited. The maximum TPPH concentration detected in soil was 408 ppm in soil sample HP-4-10. The maximum MTBE concentration detected in soil was 2.52 ppb (by EPA method 8020) in soil sample HP-4-10. Hydrocarbon and MTBE concentrations in the trench fill material are likely due to groundwater. The analytical results for soil samples are summarized in Table 1 and the laboratory reports are included as Attachment C.

Hydrocarbon Distribution in Groundwater: Petroleum hydrocarbon impact to groundwater in the utility trenches is primarily limited to HP-4, located near the gasoline UST complex. HP-4 contained 100,000 ppb TPPH, 83,000 ppb TEPH, and 2,000 ppb MTBE (by EPA method 8020). HP-5, near the diesel UST complex, contained 160 ppb TEPH. TPPH, BTEX, and MTBE were below detection limits in groundwater samples from HP-5 and HP-6. The analytical results for groundwater are summarized in Table 2 and the laboratory reports are included as Attachment C.

CONCLUSIONS AND RECOMMENDATIONS

The objective of this investigation was to determine if utility conduit trenches, located down-gradient of the site, are serving as preferential migration pathways for dissolved contaminant distribution in groundwater. Groundwater analytical results from this investigation

do not suggest contaminants are migrating within the utility trenches. Maximum concentrations of TPPH, BTEX, and MTBE were detected in groundwater from soil boring HP-4, which was advanced within the sanitary sewer trench located down-gradient and nearest to the existing UST complex. Concentrations of TPPH, BTEX and MTBE were below detection limits in soil boring HP-5. HP-5 was completed approximately 85 feet east of HP-4 and was advanced within the same sewer trench; graded to flow east. Similarly, concentrations were below detection limits in HP-6, advanced west of the UST complex and within fill material near the storm drain conduits; graded to flow to Lake Merritt.

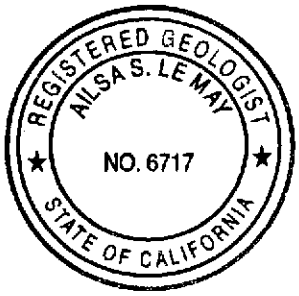
Since it does not appear that preferential pathway migration is occurring, down-gradient monitoring wells S-4 and S-5 are adequate in defining the dissolved plume down-gradient. Therefore, Cambria recommends continued groundwater monitoring from the existing monitoring network consisting of 5 monitoring wells.

CLOSING

Please call Darryk Ataide at (510) 420-3339 if you have any questions or comments. Thank you for your assistance.

Sincerely,
Cambria Environmental Technology, Inc.

Troy A. Buggle
Senior Staff Scientist



Ailsa Le May, R.G.
Senior Geologist

Figures 1 - Vicinity Map
2 – Soil Boring Location Map

Attachment: A - Standard Field Procedures for Soil Borings
B - Soil Boring Logs
C – Laboratory Analytical Reports

cc: Ms. Karen Petryna, Equiva Services LLC, P.O. Box 6249, Carson, CA 90749-6249

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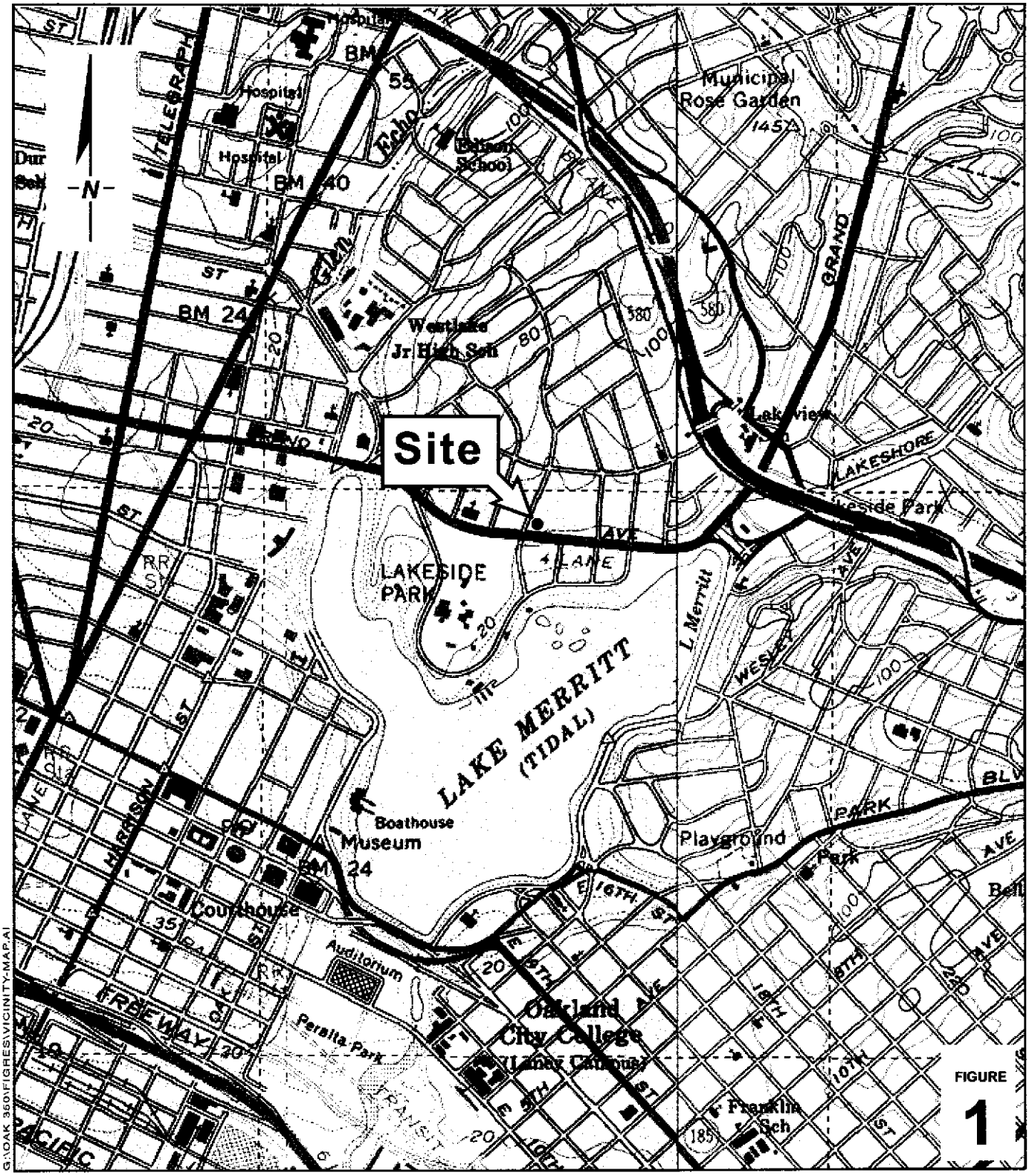

FIGURE 1

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Shell-branded Service Station
350 Grand Avenue
Oakland, California
Incident #98995755

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Vicinity Map

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Shell-branded Service Station
350 Grand Avenue
Oakland, California
Incident #98995755

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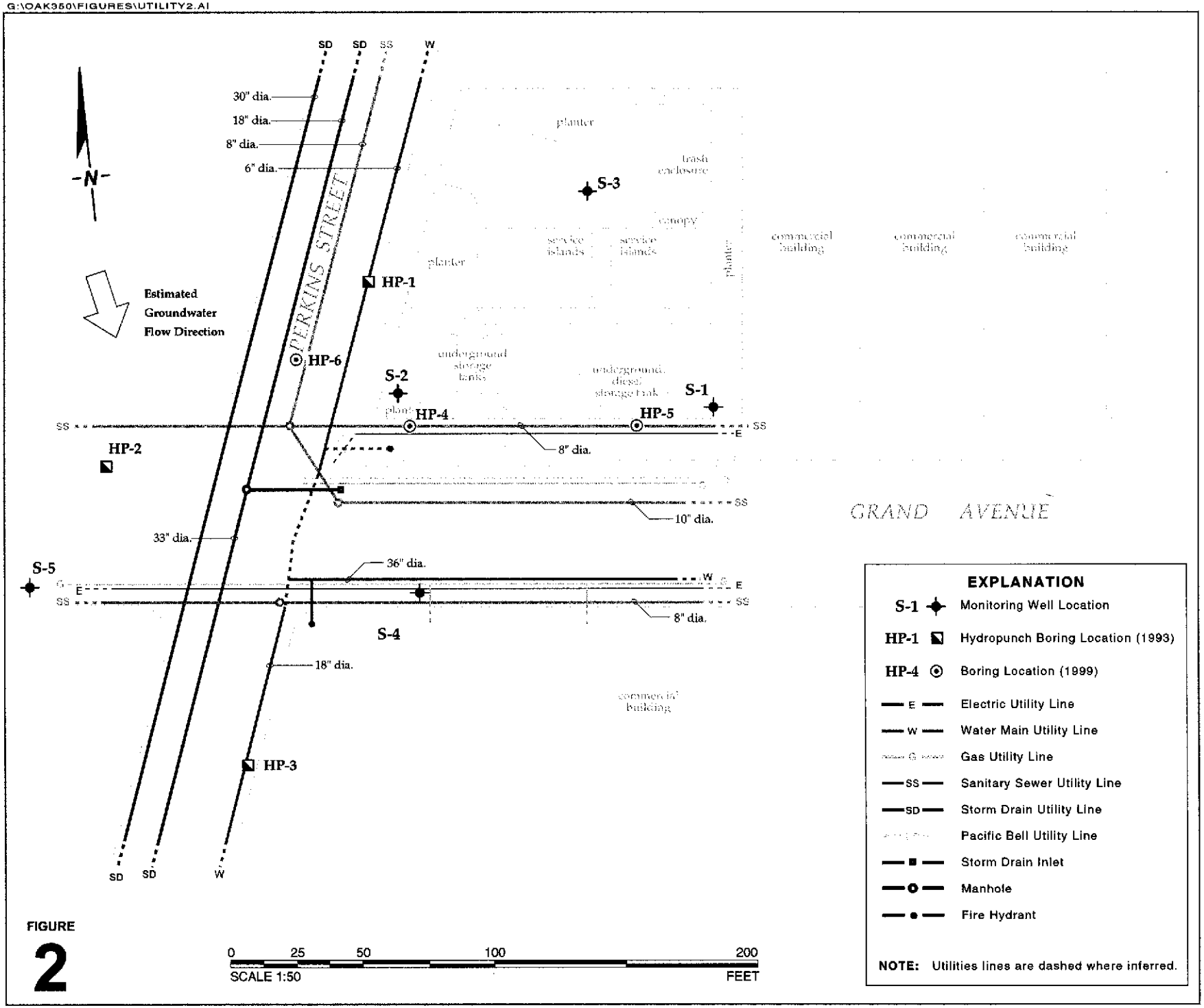
Underground Utilities and Boring Locations



EXPLANATION

- S-1 — Monitoring Well Location
- HP-1 — Hydropunch Boring Location (1993)
- HP-4 — Boring Location (1999)
- E — Electric Utility Line
- W — Water Main Utility Line
- G — Gas Utility Line
- SS — Sanitary Sewer Utility Line
- SD — Storm Drain Utility Line
- Pacific Bell Utility Line
- Storm Drain Inlet
- Manhole
- Fire Hydrant

NOTE: Utilities lines are dashed where inferred.

FIGURE 2

08/11/99

Table 1. Soil Analytical Data - Former Shell-branded Service Station, Incident #98995755, 350 Grand Avenue, Oakland, California

Sample ID	Depth (ft)	Date Sampled	TPPH	TEPH	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes
			← (Concentrations reported in milligrams per kilogram) →						
HP-4-5.5	5.5	3/17/99	<1.00	<1.0	<0.0500	<0.00500	<0.00500	<0.00500	<0.00500
HP-4-10	10	3/17/99	408	140	2.52	2.22	2.57	<0.250	0.35
HP-4-15	15	3/17/99	1.91	<1.0	0.132	<0.00500	<0.00500	0.0151	0.00510
HP-4-15.5	15.5	3/17/99	<1.00	5.1	0.110	0.00560	<0.00500	<0.00500	<0.00500
HP-5-5	5	3/17/99	<1.00	1.1	<0.0500	<0.00500	<0.00500	<0.00500	<0.00500
HP-5-7	7	3/17/99	<1.00	4.8	<0.0500	<0.00500	<0.00500	<0.00500	<0.00500
HP-5-10.5	10.5	3/17/99	<1.00	1.8	<0.0500	<0.00500	<0.00500	<0.00500	<0.00500
HP-5-14.5	14.5	3/17/99	<1.00	5.6	<0.0500	<0.00500	<0.00500	<0.00500	<0.00500
HP-5-15	15	3/17/99	<1.00	<1.0	<0.0500	<0.00500	<0.00500	<0.00500	<0.00500
HP-6-5	5	3/17/99	<1.00	<1.0	<0.0500	<0.00500	<0.00500	<0.00500	<0.00500
HP-6-8	8	3/17/99	<1.00	5.2	<0.0500	<0.00500	<0.00500	<0.00500	<0.00500
HP-6-10	10	3/17/99	<1.00	3.1	<0.0500	<0.00500	<0.00500	<0.00500	<0.00500
HP-6-15	15	3/17/99	<1.00	3.8	<0.0500	<0.00500	<0.00500	<0.00500	<0.00500
HP-6-19.5	19.5	3/17/99	<1.00	5.8	<0.0500	<0.00500	<0.00500	<0.00500	<0.00500
HP-6-20	20	3/17/99	<1.00	1.4	<0.0500	<0.00500	<0.00500	<0.00500	<0.00500

Notes and Abbreviations:

TEPH = Total petroleum hydrocarbons as diesel by modified EPA Method 8015

Benzene, toluene, ethylbenzene, and total xylenes by EPA Method 8020

MTBE = Methyl tert-butyl ether by EPA Method 8020.

mg/L = Milligrams per kilogram

<n = Below detection limit of n mg/L

Table 2. Ground Water Analytical Data - Shell Service Station, Incident # 98995755, 350 Grand Avenue, Oakland, California

Sample ID	Date Sampled	TEPH	TPPH	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes
		← (Concentrations in µg/L) →						
HP-4	3/17/99	83,000	100,000	2,000	1,000	420	590	280
HP-5	3/17/99	160	<50	<2.5	<0.50	<0.50	<0.50	<0.50
HP-6	3/17/99	<50	<50	5.2	<0.50	<0.50	<0.50	<0.50

Abbreviations and Notes:

TEPH = Total petroleum hydrocarbons as diesel by modified EPA Method 8015
TPPH = Total petroleum hydrocarbons as gasoline by modified EPA Method 8015
Benzene, toluene, ethylbenzene, and total xylenes by EPA Method 8020
MTBE = Methyl tert-butyl ether by EPA Method 8020.
µg/L = Micrograms per liter
<n = Below detection limit of n µg/L

ATTACHMENT A

Standard Field Procedures for Soil borings

CAMBRIA

STANDARD FIELD PROCEDURES FOR SOIL BORINGS

This document describes Cambria Environmental Technology's standard field methods for drilling and sampling soil borings. These procedures are designed to comply with Federal, State and local regulatory guidelines. Specific field procedures are summarized below.

Objectives

Soil samples are collected to characterize subsurface lithology, assess whether the soils exhibit obvious hydrocarbon or other compound vapor odor or staining, estimate ground water depth and quality and to submit samples for chemical analysis.

Soil Classification/Logging

All soil samples are classified according to the Unified Soil Classification System by a trained geologist or engineer working under the supervision of a California Registered Geologist (RG) or a Certified Engineering Geologist (CEG). The following soil properties are noted for each soil sample:

- Principal and secondary grain size category (i.e. sand, silt, clay or gravel)
- Approximate percentage of each grain size category,
- Color,
- Approximate water or product saturation percentage,
- Observed odor and/or discoloration,
- Other significant observations (i.e. cementation, presence of marker horizons, mineralogy), and
- Estimated permeability.

Soil Boring and Sampling

Soil borings are typically drilled using hollow-stem augers or hydraulic push technologies. At least one and one half ft of the soil column is collected for every five ft of drilled depth. Additional soil samples are collected near the water table and at lithologic changes. Samples are collected using lined split-barrel or equivalent samplers driven into undisturbed sediments beyond the bottom of the borehole. The vertical location of each soil sample is determined by measuring the distance from the middle of the soil sample tube to the end of the drive rod used to advance the split barrel sampler. All sample depths use the ground surface immediately adjacent to the boring as a datum. The horizontal location of each boring is measured in the field from an onsite permanent reference using a measuring wheel or tape measure.

Drilling and sampling equipment is steam-cleaned prior to drilling and between borings to prevent cross-contamination. Sampling equipment is washed between samples with trisodium phosphate or an equivalent EPA-approved detergent.

Sample Storage, Handling and Transport

Sampling tubes chosen for analysis are trimmed of excess soil and capped with Teflon tape and plastic end caps. Soil samples are labeled and stored at or below 4°C on either crushed or dry ice, depending upon local regulations. Samples are transported under chain-of-custody to a State-certified analytic laboratory.

Field Screening

One of the remaining tubes is partially emptied leaving about one-third of the soil in the tube. The tube is capped with plastic end caps and set aside to allow hydrocarbons to volatilize from the soil. After ten to fifteen minutes, a portable photoionization detector (PID) measures volatile hydrocarbon vapor concentrations in the tube headspace, extracting the vapor through a slit in the cap. PID measurements are used along with the field observations, odors, stratigraphy and ground water depth to select soil samples for analysis.

Water Sampling

Water samples, if they are collected from the boring, are either collected using a driven Hydropunch type sampler or are collected from the open borehole using bailers. The ground water samples are decanted into the appropriate containers supplied by the analytic laboratory. Samples are labeled, placed in protective foam sleeves, stored on crushed ice at or below 4°C, and transported under chain-of-custody to the laboratory.

Duplicates and Blanks

Blind duplicate water samples are collected usually collected only for monitoring well sampling programs, at a rate of one blind sample for every 10 wells sampled. Laboratory-supplied trip blanks accompany samples collected for all sampling programs to check for cross-contamination caused by sample handling and transport. These trip blanks are analyzed if the internal laboratory QA/QC blanks contain the suspected field contaminants. An equipment blank may also be analyzed if non-dedicated sampling equipment is used.

Grouting

If the borings are not completed as wells, the borings are filled to the ground surface with cement grout poured or pumped through a tremie pipe.

Waste Handling and Disposal

Soil cuttings from drilling activities are usually stockpiled onsite on top of and covered by plastic sheeting. At least four individual soil samples are collected from the stockpiles for later compositing at the analytic laboratory. The composite sample is analyzed for the same constituents analyzed in the borehole samples. Soil cuttings are transported by licenced waste haulers and disposed in secure, licenced facilities based on the composite analytic results.

Ground water removed during sampling and/or rinsate generated during decontamination procedures are stored onsite in sealed 55 gallon drums. Each drum is labeled with the drum number, date of generation, suspected contents, generator identification and consultant contact. Disposal of the water is based on the analytic results for the well samples. The water is either pumped out using a vacuum truck for transport to a licenced waste treatment/disposal facility or the individual drums are picked up and transported to the waste facility where the drum contents are removed and appropriately disposed.

ATTACHMENT B

Soil Boring Logs

Cambria Environmental Technology, Inc.
1144 - 65th St.
Oakland, CA 94608
Telephone: (510) 420-0700
Fax: (510) 420-9170

BORING/WELL LOG

CLIENT NAME	Equiva Services LLC	**BORING/WELL NAME**	HP-4
JOB/SITE NAME	Oakland 350	**DRILLING STARTED**	17-Mar-99
LOCATION	350 Grand Avenue, Oakland, California	**DRILLING COMPLETED**	17-Mar-99
PROJECT NUMBER	240-0715	**WELL DEVELOPMENT DATE (YIELD)**	NA
DRILLER	Gregg Drilling	**GROUND SURFACE ELEVATION**	Not Surveyed
DRILLING METHOD	Hydraulic push	**TOP OF CASING ELEVATION**	Not Surveyed
BORING DIAMETER	2"	**SCREENED INTERVAL**	NA
LOGGED BY	T. Buggle	**DEPTH TO WATER (First Encountered)**	8.0 ft (17-Mar-99)
REVIEWED BY	A. Le May, RG	**DEPTH TO WATER (Static)**	NA
REMARKS	Hand augered to 5' bgs.		

TPHg (mg/kg)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (ft bgs)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (ft bgs)	WELL DIAGRAM
							CONCRETE.	0.4	
							FILL; brown to grey; soft; slightly moist; low to medium plasticity; moderate estimated permeability.		
<1.0		HP-4 -5.5'		5			@ 5' - wet.		
							@ 6' - some gravels.		
									Portland Type I/II
								9.0	
408		HP-4 -10'		10	CL		**Sandy CLAY:** (CL); grey to brown; soft; wet; 70% clay, 25% sand, 5% gravel; low plasticity; moderate estimated permeability.		
								13.5	
1.91		HP-4 -15'		15	CH		**CLAY:** (CH); grey to brown; hard; slightly moist; 85% clay, 5% silt, 10% sand; medium plasticity; low estimated permeability.	15.5	Bottom of Boring @ 15.5 ft
<1.0		HP-4 -15.5'							

WELL LOG (TPH-G) G:\OAK350\GINT\OAK350.GPJ DEFAULT.GDT 9/8/99

Cambria Environmental Technology, Inc.
1144 - 65th St.
Oakland, CA 94608
Telephone: (510) 420-0700
Fax: (510) 420-9170

BORING/WELL LOG

CLIENT NAME	Equiva Services LLC	**BORING/WELL NAME**	HP-5
JOB/SITE NAME	Oakland 350	**DRILLING STARTED**	17-Mar-99
LOCATION	350 Grand Avenue, Oakland, California	**DRILLING COMPLETED**	17-Mar-99
PROJECT NUMBER	240-0715	**WELL DEVELOPMENT DATE (YIELD)**	NA
DRILLER	Gregg Drilling	**GROUND SURFACE ELEVATION**	Not Surveyed
DRILLING METHOD	Hydraulic push	**TOP OF CASING ELEVATION**	Not Surveyed
BORING DIAMETER	2"	**SCREENED INTERVAL**	NA
LOGGED BY	T. Buggle	**DEPTH TO WATER (First Encountered)**	8.0 ft (17-Mar-99) ▽
REVIEWED BY	A. Le May, RG	**DEPTH TO WATER (Static)**	NA ▼
REMARKS	Hand augered to 5' bgs.		

TPHg (mg/kg)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (ft bgs)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (ft bgs)	WELL DIAGRAM
							CONCRETE	0.4	
							FILL; brown; soft; moist; low plasticity; moderate estimated permeability.		
<1.0		HP-5 -5.5'		5			@ 5' - 20% clay, 75% sand, 5% gravel.		
<1.0		HP-5 -7'					@ 6' - brown to grey; wet. ▽		Portland Type I/II
<1.0		HP-5 -10.5'		10			@ 10' - brown to grey; wet; 25% clay, 70% sand, 5% gravel.	11.0	
					CL		**CLAY**; (CL); brown to red; stiff; 90% clay, 5% silt, 5% sand; medium plasticity; low estimated permeability.		
<1.0		HP-5 -14.5'							
<1.0		HP-5 -15'		15				15.0	Bottom of Boring @ 15 ft

WELL LOG (TPH-G) G:\OAK350\GINT\OAK350.GPJ DEFAULT.GDT 9/8/99

Cambria Environmental Technology, Inc.
1144 - 65th St.
Oakland, CA 94608
Telephone: (510) 420-0700
Fax: (510) 420-9170

BORING/WELL LOG

CLIENT NAME	Equiva Services LLC	**BORING/WELL NAME**	HP-6
JOB/SITE NAME	Oakland 350	**DRILLING STARTED**	17-Mar-99
LOCATION	350 Grand Avenue, Oakland, California	**DRILLING COMPLETED**	17-Mar-99
PROJECT NUMBER	240-0715	**WELL DEVELOPMENT DATE (YIELD)**	NA
DRILLER	Gregg Drilling	**GROUND SURFACE ELEVATION**	Not Surveyed
DRILLING METHOD	Hydraulic push	**TOP OF CASING ELEVATION**	Not Surveyed
BORING DIAMETER	2"	**SCREENED INTERVAL**	NA
LOGGED BY	T. Buggle	**DEPTH TO WATER (First Encountered)**	10.0 ft (17-Mar-99) ▽
REVIEWED BY	A. Le May, RG	**DEPTH TO WATER (Static)**	NA ▼
REMARKS	Hand augered to 5' bgs.		

TPHg (mg/kg)	BLOW COUNTS	SAMPLE ID	DEPTH (ft bgs)	U.S.C.S.	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (ft bgs)	WELL DIAGRAM
					ASPHALT. FILL; brown; soft; dry; low plasticity; high estimated permeability.	0.4	
<1.0		HP-6 -5'	5				
<1.0		HP-6 -8'			@ 7' - slightly moist; low to medium plasticity; moderate estimated permeability.		
<1.0		HP-6 -10'	10		@ 10' - dark brown; wet; low plasticity; moderate to high estimated permeability. ▽	11.0	Portland Type I/II
					Sandy CLAY; (CL); brown; stiff; moist; 60% clay, 5% silt, 35% sand; medium plasticity; low estimated permeability.		
<1.0		HP-6 -15'	15	CL	@ 15' - medium stiff; slightly moist.		
<1.0		HP-6 -19.5'				20.0	
<1.0		HP-6 -20'	20				Bottom of Boring @ 20 ft

WELL LOG (TPH-G) G:\OAK350\GINT\OAK350.GPJ DEFAULT.GDT 9/8/99

ATTACHMENT C

Laboratory Analytical Reports

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (650) 364-9600, FAX (650) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (925) 988-9600, FAX (925) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100
1455 McDowell Blvd. North, Ste. D, Petaluma, CA 94954, (707) 792-1865, FAX (707) 792-0342
1551 Industrial Road, San Carlos, CA 94070-4111, (650) 232-9600, FAX (650) 232-9612

Cambria
1144 65th St. Suite C
Oakland, CA 94608
Attention: Darryk Ataide

Client Proj. ID: Shell 350 Grand Ave, Oakland
Lab Proj. ID: 9903A94

Received: 03/18/99
Reported: 04/13/99

LABORATORY NARRATIVE

In order to properly interpret this report, it must be reproduced in its entirety. This report contains a total of 55 pages including the laboratory narrative, sample results, quality control, and related documents as required (cover page, COC, raw data, etc.).

Notes:
EPA Method 8020/8015(mod.)-Gas:
The analyses for Total Purgeable Hydrocarbons, BTEX, and MTBE were subcontracted to Sequoia Analytical-San Carlos.
Sample 9903A94-16 had a high surrogate recovery due to the sample's matrix effect.

General Chemical Properties:
The analyses for Porosity, Permeability, and Bulk Density were subcontracted to Core Laboratories.

SEQUOIA ANALYTICAL

Project Manager

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (650) 364-9600, FAX (650) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (925) 988-9600, FAX (925) 988-9673
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1455 McDowell Blvd. North, Ste. D, Petaluma, CA 94954, (707) 792-1865, FAX (707) 792-0342
1551 Industrial Road, San Carlos, CA 94070-4111, (650) 232-9600, FAX (650) 232-9612

Cambria	Client Proj. ID: Shell 350 Grand Ave, Oakland	Sampled: 03/17/99
1144 65th St. Suite C	Sample Descript: HP-6-19.5'	Received: 03/18/99
Oakland, CA 94608	Matrix: SOLID	Extracted: 03/29/99
	Analysis Method: EPA 8015 Mod	Analyzed: 03/31/99
Attention: Darryk Ataide	Lab Number: 9903A94-01	Reported: 04/13/99

QC Batch Number: GC0329990HBPEXA
Instrument ID: GCHP5B

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TEPH as Diesel	1.0	5.8
Chromatogram Pattern:		
Unidentified HC		C9-C24

Surrogates	Control Limits %		% Recovery
n-Pentacosane (C25)	50	150	85

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Project Manager

Sequoia Analytical

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1551 Industrial Road, San Carlos, CA 94070-4111, (650) 232-9600, FAX (650) 232-9612

Cambria	Client Proj. ID: Shell 350 Grand Ave, Oakland	Sampled: 03/17/99
1144 65th St. Suite C	Sample Descript: HP-6-15'	Received: 03/18/99
Oakland, CA 94608	Matrix: SOLID	Extracted: 03/29/99
	Analysis Method: EPA 8015 Mod	Analyzed: 03/31/99
Attention: Darryk Ataide	Lab Number: 9903A94-02	Reported: 04/13/99

QC Batch Number: GC0329990HBPEXA
Instrument ID: GCHP5B

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TEPH as Diesel	**1.0**	**3.8**
Chromatogram Pattern:		
Unidentified HC		**C9-C24**

Surrogates	Control Limits %		% Recovery
n-Pentacosane (C25)	50	150	93

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Project Manager

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1551 Industrial Road, San Carlos, CA 94070-4111, (650) 232-9600, FAX (650) 232-9612

Cambria	Client Proj. ID: Shell 350 Grand Ave, Oakland	Sampled: 03/17/99
1144 65th St. Suite C	Sample Descript: HP-6-10'	Received: 03/18/99
Oakland, CA 94608	Matrix: SOLID	Extracted: 03/29/99
	Analysis Method: EPA 8015 Mod	Analyzed: 03/31/99
Attention: Darryk Ataide	Lab Number: 9903A94-03	Reported: 04/13/99

QC Batch Number: GC0329990HBPEXA
Instrument ID: GCHP5A

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TEPH as Diesel	**1.0**	**3.1**
Chromatogram Pattern:		
Unidentified HC		**C9-C24**

Surrogates	Control Limits %		% Recovery
n-Pentacosane (C25)	50	150	111

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Project Manager

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1551 Industrial Road, San Carlos, CA 94070-4111, (650) 232-9600, FAX (650) 232-9612

Cambria	Client Proj. ID: Shell 350 Grand Ave, Oakland	Sampled: 03/17/99
1144 65th St. Suite C	Sample Descript: HP-6-8'	Received: 03/18/99
Oakland, CA 94608	Matrix: SOLID	Extracted: 03/29/99
	Analysis Method: EPA 8015 Mod	Analyzed: 03/31/99
Attention: Darryk Ataide	Lab Number: 9903A94-04	Reported: 04/13/99

QC Batch Number: GC0329990HBPEXA
Instrument ID: GCHP5A

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TEPH as Diesel	**1.0**	**5.2**
Chromatogram Pattern:		
Unidentified HC		**C9-C24**

Surrogates	Control Limits %		% Recovery
n-Pentacosane (C25)	50	150	96

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Project Manager

Sequoia Analytical

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1551 Industrial Road, San Carlos, CA 94070-4111, (650) 232-9600, FAX (650) 232-9612

Cambria	Client Proj. ID: Shell 350 Grand Ave, Oakland	Sampled: 03/17/99
1144 65th St. Suite C	Sample Descript: HP-6-5'	Received: 03/18/99
Oakland, CA 94608	Matrix: SOLID	Extracted: 03/29/99
	Analysis Method: EPA 8015 Mod	Analyzed: 03/31/99
Attention: Darryk Ataide	Lab Number: 9903A94-05	Reported: 04/13/99

QC Batch Number: GC0329990HBPEXA
Instrument ID: GCHP5B

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TEPH as Diesel	1.0	N.D.
Chromatogram Pattern:		

Surrogates	Control Limits %		% Recovery
n-Pentacosane (C25)	50	150	83

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Project Manager

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1551 Industrial Road, San Carlos, CA 94070-4111, (650) 232-9600, FAX (650) 232-9612

Cambria	Client Proj. ID: Shell 350 Grand Ave, Oakland	Sampled: 03/17/99
1144 65th St. Suite C	Sample Descript: HP-5-14.5'	Received: 03/18/99
Oakland, CA 94608	Matrix: SOLID	Extracted: 03/29/99
	Analysis Method: EPA 8015 Mod	Analyzed: 03/31/99
Attention: Darryk Ataide	Lab Number: 9903A94-06	Reported: 04/13/99

QC Batch Number: GC0329990HBPEXA
Instrument ID: GCHP5B

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TEPH as Diesel	**1.0**	**5.6**
Chromatogram Pattern:		
Unidentified HC		**C9-C24**

Surrogates	Control Limits %		% Recovery
n-Pentacosane (C25)	50	150	57

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Project Manager

Sequoia Analytical

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1551 Industrial Road, San Carlos, CA 94070-4111, (650) 232-9600, FAX (650) 232-9612

Cambria	Client Proj. ID: Shell 350 Grand Ave, Oakland	Sampled: 03/17/99
1144 65th St. Suite C	Sample Descript: HP-5-10'	Received: 03/18/99
Oakland, CA 94608	Matrix: SOLID	Extracted: 03/29/99
	Analysis Method: EPA 8015 Mod	Analyzed: 03/31/99
Attention: Darryk Ataide	Lab Number: 9903A94-07	Reported: 04/13/99

QC Batch Number: GC0329990HBPEXA
Instrument ID: GCHP5B

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TEPH as Diesel	**1.0**	**1.8**
Chromatogram Pattern:		
Unidentified HC		**C9-C24**

Surrogates	Control Limits %		% Recovery
n-Pentacosane (C25)	50	150	87

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Project Manager

Sequoia Analytical

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1551 Industrial Road, San Carlos, CA 94070-4111, (650) 232-9600, FAX (650) 232-9612

Cambria	Client Proj. ID: Shell 350 Grand Ave, Oakland	Sampled: 03/17/99
1144 65th St. Suite C	Sample Descript: HP-5-7'	Received: 03/18/99
Oakland, CA 94608	Matrix: SOLID	Extracted: 03/29/99
	Analysis Method: EPA 8015 Mod	Analyzed: 03/31/99
Attention: Darryk Ataide	Lab Number: 9903A94-08	Reported: 04/13/99

QC Batch Number: GC0329990HBPEXA
Instrument ID: GCHP5B

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TEPH as Diesel	1.0	4.8
Chromatogram Pattern:		
Unidentified HC		C9-C24

Surrogates	Control Limits %		% Recovery
n-Pentacosane (C25)	50	150	124

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Project Manager

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1551 Industrial Road, San Carlos, CA 94070-4111, (650) 232-9600, FAX (650) 232-9612

Cambria	Client Proj. ID: Shell 350 Grand Ave, Oakland	Sampled: 03/17/99
1144 65th St. Suite C	Sample Descript: HP-5-5'	Received: 03/18/99
Oakland, CA 94608	Matrix: SOLID	Extracted: 03/29/99
	Analysis Method: EPA 8015 Mod	Analyzed: 03/31/99
Attention: Darryk Ataide	Lab Number: 9903A94-09	Reported: 04/13/99

QC Batch Number: GC0329990HBPEXA
Instrument ID: GCHP5A

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TEPH as Diesel	**1.0**	**1.1**
Chromatogram Pattern:		
Unidentified HC		**C9-C24**

Surrogates	Control Limits %		% Recovery
n-Pentacosane (C25)	50	150	84

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Project Manager

Sequoia Analytical

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1551 Industrial Road, San Carlos, CA 94070-4111, (650) 232-9600, FAX (650) 232-9612

Cambria	Client Proj. ID: Shell 350 Grand Ave, Oakland	Sampled: 03/17/99
1144 65th St. Suite C	Sample Descript: HP-4-5.5'	Received: 03/18/99
Oakland, CA 94608	Matrix: SOLID	Extracted: 03/29/99
	Analysis Method: EPA 8015 Mod	Analyzed: 03/31/99
Attention: Darryk Ataide	Lab Number: 9903A94-10	Reported: 04/13/99

QC Batch Number: GC0329990HBPEXA
Instrument ID: GCHP5A

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TEPH as Diesel	1.0	N.D.
Chromatogram Pattern:		

Surrogates	Control Limits %		% Recovery
n-Pentacosane (C25)	50	150	87

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Project Manager

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1551 Industrial Road, San Carlos, CA 94070-4111, (650) 232-9600, FAX (650) 232-9612

Cambria	Client Proj. ID: Shell 350 Grand Ave, Oakland	Sampled: 03/17/99
1144 65th St. Suite C	Sample Descript: HP-4-10'	Received: 03/18/99
Oakland, CA 94608	Matrix: SOLID	Extracted: 03/30/99
	Analysis Method: EPA 8015 Mod	Analyzed: 04/01/99
Attention: Darryk Ataide	Lab Number: 9903A94-11	Reported: 04/13/99

QC Batch Number: GC0330990HBPEXA
Instrument ID: GCHP4B

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TEPH as Diesel	**20**	**140**
Chromatogram Pattern:		
Unidentified HC		**C9-C24**

Surrogates	Control Limits %		% Recovery
n-Pentacosane (C25)	50	150	111

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Project Manager

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1551 Industrial Road, San Carlos, CA 94070-4111, (650) 232-9600, FAX (650) 232-9612

Cambria	Client Proj. ID: Shell 350 Grand Ave, Oakland	Sampled: 03/17/99
1144 65th St. Suite C	Sample Descript: HP-4-15.0'	Received: 03/18/99
Oakland, CA 94608	Matrix: SOLID	Extracted: 03/30/99
	Analysis Method: EPA 8015 Mod	Analyzed: 04/01/99
Attention: Darryk Ataide	Lab Number: 9903A94-12	Reported: 04/13/99

QC Batch Number: GC0330990HBPEXA
Instrument ID: GCHP5A

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TEPH as Diesel	1.0	N.D.
Chromatogram Pattern:		

Surrogates	Control Limits %		% Recovery
n-Pentacosane (C25)	50	150	52

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Project Manager

Sequoia Analytical

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1551 Industrial Road, San Carlos, CA 94070-4111, (650) 232-9600, FAX (650) 232-9612

Cambria	Client Proj. ID: Shell 350 Grand Ave, Oakland	Sampled: 03/17/99
1144 65th St. Suite C	Sample Descript: HP-6-20'	Received: 03/18/99
Oakland, CA 94608	Matrix: SOLID	Extracted: 03/30/99
	Analysis Method: EPA 8015 Mod	Analyzed: 03/31/99
Attention: Darryk Ataide	Lab Number: 9903A94-13	Reported: 04/13/99

QC Batch Number: GC0330990HBPEXA
Instrument ID: GCHP5A

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TEPH as Diesel	**1.0**	**1.4**
Chromatogram Pattern:		
Unidentified HC		**C9-C24**

Surrogates	Control Limits %		% Recovery
n-Pentacosane (C25)	50	150	84

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Project Manager

Sequoia Analytical

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1551 Industrial Road, San Carlos, CA 94070-4111, (650) 232-9600, FAX (650) 232-9612

Cambria	Client Proj. ID: Shell 350 Grand Ave, Oakland	Sampled: 03/17/99
1144 65th St. Suite C	Sample Descript: HP-5-15'	Received: 03/18/99
Oakland, CA 94608	Matrix: SOLID	Extracted: 03/30/99
	Analysis Method: EPA 8015 Mod	Analyzed: 04/01/99
Attention: Darryk Ataide	Lab Number: 9903A94-14	Reported: 04/13/99

QC Batch Number: GC0330990HBPEXA
Instrument ID: GCHP5A

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TEPH as Diesel	1.0	N.D.
Chromatogram Pattern:		

Surrogates	Control Limits %		% Recovery
n-Pentacosane (C25)	50	150	68

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Project Manager

Sequoia Analytical

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1551 Industrial Road, San Carlos, CA 94070-4111, (650) 232-9600, FAX (650) 232-9612

Cambria	Client Proj. ID: Shell 350 Grand Ave, Oakland	Sampled: 03/17/99
1144 65th St. Suite C	Sample Descript: HP-4-15.5'	Received: 03/18/99
Oakland, CA 94608	Matrix: SOLID	Extracted: 03/30/99
	Analysis Method: EPA 8015 Mod	Analyzed: 04/01/99
Attention: Darryk Ataide	Lab Number: 9903A94-15	Reported: 04/13/99

QC Batch Number: GC0330990HBPEXA
Instrument ID: GCHP5A

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TEPH as Diesel	1.0	5.1
Chromatogram Pattern: **Unidentified HC**		C9-C24

Surrogates	Control Limits %		% Recovery
n-Pentacosane (C25)	50	150	67

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Project Manager

Sequoia Analytical

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1551 Industrial Road, San Carlos, CA 94070-4111, (650) 232-9600, FAX (650) 232-9612

Cambria	Client Proj. ID: Shell 350 Grand Ave, Oakland	Sampled: 03/17/99
1144 65th St. Suite C	Sample Descript: HP-4	Received: 03/18/99
Oakland, CA 94608	Matrix: LIQUID	Extracted: 03/29/99
	Analysis Method: EPA 8015 Mod	Analyzed: 03/31/99
Attention: Darryk Ataide	Lab Number: 9903A94-16	Reported: 04/13/99

QC Batch Number: GC0329990HBPEXB
Instrument ID: GCHP5A

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit ug/L	Sample Results ug/L
TEPH as Diesel	**5000**	**83000**
Chromatogram Pattern:		
Unidentified HC		**C9-C24**

Surrogates	Control Limits %		% Recovery
n-Pentacosane (C25)	50	150	Q

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Project Manager

Sequoia Analytical

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1551 Industrial Road, San Carlos, CA 94070-4111, (650) 232-9600, FAX (650) 232-9612

Cambria	Client Proj. ID: Shell 350 Grand Ave, Oakland	Sampled: 03/17/99
1144 65th St. Suite C	Sample Descript: HP-4	Received: 03/18/99
Oakland, CA 94608	Matrix: LIQUID	
	Analysis Method: 8015Mod/8020	Analyzed: 03/29/99
Attention: Darryk Ataide	Lab Number: 9903A94-16	Reported: 04/13/99

QC Batch Number: GC032999BTEX03A
Instrument ID: GCHP03

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	**20000**	**100000**
Methyl t-Butyl Ether	**1000**	**2000**
Benzene	**200**	**1000**
Toluene	**200**	**420**
Ethyl Benzene	**200**	**590**
Xylenes (Total)	**200**	**280**
Chromatogram Pattern:		**C6-C12**

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	134 Q

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Project Manager

Sequoia Analytical

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Cambria
1144 65th St. Suite C
Oakland, CA 94608

Attention: Darryk Ataide

Client Proj. ID: Shell 350 Grand Ave, Oakland
Sample Descript: HP-5
Matrix: LIQUID
Analysis Method: EPA 8015 Mod
Lab Number: 9903A94-17

Sampled: 03/17/99
Received: 03/18/99
Extracted: 03/29/99
Analyzed: 03/31/99
Reported: 04/13/99

QC Batch Number: GC0329990HBPEXB
Instrument ID: GCHP5A

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit ug/L	Sample Results ug/L
TEPH as Diesel	50	160
Chromatogram Pattern: **Unidentified HC**		C9-C24

Surrogates	Control Limits %		% Recovery
n-Pentacosane (C25)	50	150	95

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Project Manager

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1551 Industrial Road, San Carlos, CA 94070-4111, (650) 232-9600, FAX (650) 232-9612

Cambria	Client Proj. ID: Shell 350 Grand Ave, Oakland	Sampled: 03/17/99
1144 65th St. Suite C	Sample Descript: HP-5	Received: 03/18/99
Oakland, CA 94608	Matrix: LIQUID	
	Analysis Method: 8015Mod/8020	Analyzed: 03/29/99
Attention: Darryk Ataide	Lab Number: 9903A94-17	Reported: 04/13/99

QC Batch Number: GC032999BTEX03A
Instrument ID: GCHP03

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	50	N.D.
Methyl t-Butyl Ether	2.5	N.D.
Benzene	0.50	N.D.
Toluene	0.50	N.D.
Ethyl Benzene	0.50	N.D.
Xylenes (Total)	0.50	N.D.
Chromatogram Pattern:		

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	104

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Project Manager

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Cambria
1144 65th St. Suite C
Oakland, CA 94608

Attention: Darryk Ataide

Client Proj. ID: Shell 350 Grand Ave, Oakland
Sample Descript: HP-6
Matrix: LIQUID
Analysis Method: EPA 8015 Mod
Lab Number: 9903A94-18

Sampled: 03/17/99
Received: 03/18/99
Extracted: 03/29/99
Analyzed: 03/31/99
Reported: 04/13/99

QC Batch Number: GC0329990HBPEXB
Instrument ID: GCHP5A

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit ug/L	Sample Results ug/L
TEPH as Diesel	50	N.D.
Chromatogram Pattern:		

Surrogates	Control Limits %		% Recovery
n-Pentacosane (C25)	50	150	94

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Project Manager

Sequoia Analytical

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Cambria	Client Proj. ID: Shell 350 Grand Ave, Oakland	Sampled: 03/17/99
1144 65th St. Suite C	Sample Descript: HP-6	Received: 03/18/99
Oakland, CA 94608	Matrix: LIQUID	
	Analysis Method: 8015Mod/8020	Analyzed: 03/29/99
Attention: Darryk Ataide	Lab Number: 9903A94-18	Reported: 04/13/99

QC Batch Number: GC032999BTEX03A
Instrument ID: GCHP03

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	50	N.D.
Methyl t-Butyl Ether	**2.5**	**5.2**
Benzene	0.50	N.D.
Toluene	0.50	N.D.
Ethyl Benzene	0.50	N.D.
Xylenes (Total)	0.50	N.D.
Chromatogram Pattern:		

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	99

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Project Manager

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Cambria
1144 65th St. Suite C
Oakland, CA 94608
Attention: Darryk Ataide

Client Project ID: Shell 350 Grand Ave, Oakland

QC Sample Group: 9903A94 01-10

Reported: Apr 14, 1999

QUALITY CONTROL DATA REPORT

Matrix:	Solid
Method:	EPA 8015M
Analyst:	J.BONNVILLE
ANALYTE	Diesel

QC Batch #: GC0329990HBPEXA

Sample No.:	9903812-13
Date Prepared:	3/25/99
Date Analyzed:	3/26/99
Instrument I.D.#:	GCHP4B
Sample Conc., mg/Kg:	16 mg/Kg
Conc. Spiked, mg/Kg:	17
Matrix Spike, mg/Kg:	28
% Recovery:	71
Matrix Spike Duplicate, mg/Kg:	28
% Recovery:	71
Relative % Difference:	0.0
RPD Control Limits:	0-50

MS/MSD ARE REFFERED FROM GC0325990HBPEXA

LCS Batch#: BLK032999AS

Date Prepared:	3/29/99
Date Analyzed:	3/30/99
Instrument I.D.#:	GCHP5A
Conc. Spiked, mg/Kg:	17
Recovery, mg/Kg:	13
LCS % Recovery:	76

Percent Recovery Control Limits:

MS/MSD	50-150
LCS	60-140

Quality Assurance Statement: All standard operating procedures and quality control requirements have been met.

SEQUOIA ANALYTICAL

Kayvan Kimyai
Project Manager

Please Note:
The LCS is a control sample of known, interferent free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

Sequoia Analytical

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Cambria
1144 65th St. Suite C
Oakland, CA 94608
Attention: Darryk Ataide

Client Project ID: Shell 350 Grand Ave, Oakland

QC Sample Group: 9903A94 16-18

Reported: Apr 14, 1999

QUALITY CONTROL DATA REPORT

Matrix:	Liquid			
Method:	EPA 8020			
Analyst:	MM			
ANALYTE	Benzene	Toluene	Ethylbenzene	Xylenes
QC Batch #:	GC032999BTEX03A			
Sample No.:	9903A64-1			
Date Prepared:	3/28/99	3/28/99	3/28/99	3/28/99
Date Analyzed:	3/28/99	3/28/99	3/28/99	3/28/99
Instrument I.D.#:	GCHP03	GCHP03	GCHP03	GCHP03
Sample Conc., ug/L:	N.D.	N.D.	N.D.	N.D.
Conc. Spiked, ug/L:	10	10	10	30
Matrix Spike, ug/L:	11	11	11	32
% Recovery:	110	110	110	107
Matrix Spike Duplicate, ug/L:	11	11	11	32
% Recovery:	110	110	110	107
Relative % Difference:	0.0	0.0	0.0	0.0
RPD Control Limits:	0-25	0-25	0-25	0-25

LCS Batch#:	GC032999BTEX03A			
Date Prepared:	3/29/99	3/29/99	3/29/99	3/29/99
Date Analyzed:	3/29/99	3/29/99	3/29/99	3/29/99
Instrument I.D.#:	GCHP03	GCHP03	GCHP03	GCHP03
Conc. Spiked, ug/L:	10	10	10	30
LCS Recovery, ug/L:	9.3	11	11	32
LCS % Recovery:	93	110	110	107

Percent Recovery Control Limits:

MS/MSD	60-140	60-140	60-140	60-140
LCS	70-130	70-130	70-130	70-130

Quality Assurance Statement: All standard operating procedures and quality control requirements have been met.

SEQUOIA ANALYTICAL

Kayvan Kimyai
Project Manager

Please Note:
The LCS is a control sample of known, interferent free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

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Cambria
1144 65th St. Suite C
Oakland, CA 94608
Attention: Darryk Ataide

Client Project ID: Shell 350 Grand Ave, Oakland

QC Sample Group: 9903A94 11-15

Reported: Apr 14, 1999

QUALITY CONTROL DATA REPORT

Matrix:	Solid
Method:	EPA 8015M
Analyst:	J.BONNVILLE
ANALYTE	Diesel

QC Batch #: GC0330990HBPEXA

Sample No.:	9903A94-13
Date Prepared:	3/30/99
Date Analyzed:	3/31/99
Instrument I.D.#:	GCHP5A
Sample Conc., mg/Kg:	1.4 mg/Kg
Conc. Spiked, mg/Kg:	17
Matrix Spike, mg/Kg:	11
% Recovery:	56
Matrix Spike Duplicate, mg/Kg:	11
% Recovery:	56
Relative % Difference:	0.0
RPD Control Limits:	0-50

LCS Batch#: BLK033099AS

Date Prepared:	3/30/99
Date Analyzed:	3/31/99
Instrument I.D.#:	GCHP5A
Conc. Spiked, mg/Kg:	17
Recovery, mg/Kg:	14
LCS % Recovery:	82

Percent Recovery Control Limits:

MS/MSD	50-150
LCS	60-140

Quality Assurance Statement: All standard operating procedures and quality control requirements have been met.

SEQUOIA ANALYTICAL

Kavvan Kimyai
Project Manager

Please Note:
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Cambria
1144 65th St. Suite C
Oakland, CA 94608
Attention: Darryk Ataide

Client Project ID: Shell 350 Grand Ave, Oakland

QC Sample Group: 9903A94 16-18

Reported: Apr 14, 1999

QUALITY CONTROL DATA REPORT

Matrix:	Liquid
Method:	EPA 8015A
Analyst:	J.BONNVILLE
ANALYTE	Diesel

QC Batch #: GC0329990HBPEXB

Sample No.:	9903924-1
Date Prepared:	3/29/99
Date Analyzed:	3/30/99
Instrument I.D.#:	GCHP5A
Sample Conc., ug/L:	N.D.
Conc. Spiked, ug/L:	1000
Matrix Spike, ug/L:	860
% Recovery:	86
Matrix Spike Duplicate, ug/L:	820
% Recovery:	82
Relative % Difference:	4.8
RPD Control Limits:	0-50

LCS Batch#: BLK032999BS

Date Prepared:	3/29/99
Date Analyzed:	3/30/99
Instrument I.D.#:	GCHP5A
Conc. Spiked, ug/L:	1000
Recovery, ug/L:	670
LCS % Recovery:	67

Percent Recovery Control Limits:

MS/MSD	50-150
LCS	60-140

Quality Assurance Statement: All standard operating procedures and quality control requirements have been met.

SEQUOIA ANALYTICAL

Kayvan Kimyai
Project Manager

Please Note:
The LCS is a control sample of known, interferent free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

CORE LAB

CORE LABORATORIES

K. Kimyai
Sequoia Analytical
680 Chesapeake Dr.
Redwood City, CA 94063

April 5, 1999

Subject : Transmittal of Geotechnical Analysis Data
SA Work order # P9903A94
Core Lab File No. 57111-99065

Dear K. Kimyai :

Soil samples were submitted to our Bakersfield laboratory for geotechnical analysis. Determinations of bulk density, total porosity, permeability to air and water saturation were requested. Grain and pore volumes were determined by Boyles Law double-cell methods utilizing an extended range helium porosimeter. The bulk densities, water saturations, permeability to air and total porosity measurements and calculations were performed as described in **API RP-40**, API Recommended Practice for Core-Analysis Procedure, 1960. Accompanying this letter please find the results of this study.

We appreciate this opportunity to be of service to you and to Sequoia Analytical. Should you have any questions, or if we may be of further help in the future, please do not hesitate to contact us.

Very truly yours,

Jeffry L. Smith
Laboratory Supervisor - Rock Properties

JLS:nw
1 original report, 1 cc report: Addressee

CORELAB

Sequoia Analytical

(Redwood City)

Cambria -9903A94

File No.:57111-99065

Sample ID		Permeability Vertical (Kair)		Porosity (Total)	Water Saturation	Density			Description
Fraction	Desc.	md	cm/sec	%	%PV	Dry Bulk g/cc	Natural Bulk g/cc	Grain g/cc	
13	HP-6-20.0'	442.0	3.79E-04	26.0	99.4	1.95	2.21	2.63	Gray v slty vf-gran clayey sd
14	HP-5-15.0'	<1.0	< 8.58E-07	40.4	99.8	1.55	1.95	2.59	Gray clayey slt
15	HP-4-15.5'	<1.0	< 8.58E-07	30.5	99.7	1.81	2.12	2.61	Gray vf-pbly sandy silty clay

Permeability to air, total porosity, fluid saturations, grain and pore volumes were determined as per API RP-40.

Sequoia Analytical

File No.:57111-99065

(Redwood City)

Cambria -9903494

Sample ID		Permeability Horizontal (Kair)		Porosity (Total)	Water Saturation	Density			Description
						Dry Bulk	Natural Bulk	Grain	
Fraction	Desc.	md	cm/sec	%	%PV	g/cc	g/cc	g/cc	
13	HP-6-20'	442.0	3.79E-04	26.0	99.4	1.95	2.21	2.63	Gray v slty vf-gran clayey sd
14	HP-5-15'	<1.0	8.58E-07	40.4	99.8	1.55	1.95	2.59	Gray clayey slt
15	HP-4-15.5'	<1.0	8.58E-07	30.5	99.7	1.81	2.12	2.61	Gray vf-pbly sandy silty clay

Permeability to air, total porosity, fluid saturations, grain and pore volumes were determined as per API RP-40.

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April 5, 1999

Kayvan Kimyai
Sequoia - Redwood City
680 Chesapeake Drive
Redwood City, CA 94063

RE: Kayvan Kimyai/L903297

Dear Kayvan Kimyai:

Enclosed are the results of analyses for sample(s) received by the laboratory on March 30, 1999. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Mike Gregory
Project Manager D.M.

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (650) 364-9600, FAX (650) 364-9233
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Sequoia - Redwood City	Project:	Kayvan Kimyai	Sampled: 3/17/99
680 Chesapeake Drive	Project Number:	9903A94(Cambria)	Received: 3/30/99
Redwood City, CA 94063	Project Manager:	Kayvan Kimyai	Reported: 4/5/99

Sample Description: **9903A94-04/HP-6-8'**
Laboratory Sample Number: **L903297-04**

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method/ Surrogate Limits	Reporting Limit	Result	Units	Notes*
Sequoia Analytical - San Carlos								
Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT								
Purgeable Hydrocarbons as Gasoline	9040012	3/30/99	3/30/99		1.00	ND	mg/kg	
Benzene	"	"	"		0.00500	ND	"	
Toluene	"	"	"		0.00500	ND	"	
Ethylbenzene	"	"	"		0.00500	ND	"	
Xylenes (total)	"	"	"		0.00500	ND	"	
Methyl tert-butyl ether	"	"	"		0.0500	ND	"	
Surrogate: a,a,a-Trifluorotoluene	"	"	"	*70.0-130*		*90.5*	*%*	

Sequoia Analytical

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Sequoia - Redwood City	Project:	Kayvan Kimyai	Sampled: 3/17/99
680 Chesapeake Drive	Project Number:	9903A94(Cambria)	Received: 3/30/99
Redwood City, CA 94063	Project Manager:	Kayvan Kimyai	Reported: 4/5/99

Sample Description: **9903A94-05/HP-6-5'**
Laboratory Sample Number: **L903297-05**

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method/ Surrogate Limits	Reporting Limit	Result	Units	Notes*
Sequoia Analytical - San Carlos								
Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT								
Purgeable Hydrocarbons as Gasoline	9040012	3/30/99	3/30/99		1.00	ND	mg/kg	
Benzene	"	"	"		0.00500	ND	"	
Toluene	"	"	"		0.00500	ND	"	
Ethylbenzene	"	"	"		0.00500	ND	"	
Xylenes (total)	"	"	"		0.00500	ND	"	
Methyl tert-butyl ether	"	"	"		0.0500	ND	"	
Surrogate: a,a,a-Trifluorotoluene	"	"	"	*70.0-130*		*89.5*	*%*	

Sequoia Analytical

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Sequoia - Redwood City	Project:	Kayvan Kimyai	Sampled:	3/17/99
680 Chesapeake Drive	Project Number:	9903A94(Cambria)	Received:	3/30/99
Redwood City, CA 94063	Project Manager:	Kayvan Kimyai	Reported:	4/5/99

Sample Description: **9903A94-06/HP-5-14.5'**
Laboratory Sample Number: **L903297-06**

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method/ Surrogate Limits	Reporting Limit	Result	Units	Notes*
Sequoia Analytical - San Carlos								
Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT								
Purgeable Hydrocarbons as Gasoline	9040012	3/30/99	3/30/99		1.00	ND	mg/kg	
Benzene	"	"	"		0.00500	ND	"	
Toluene	"	"	"		0.00500	ND	"	
Ethylbenzene	"	"	"		0.00500	ND	"	
Xylenes (total)	"	"	"		0.00500	ND	"	
Methyl tert-butyl ether	"	"	"		0.0500	ND	"	
Surrogate: a,a,a-Trifluorotoluene	"	"	"	*70.0-130*		*87.5*	%	

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Sequoia - Redwood City	Project:	Kayvan Kimyai	Sampled: 3/17/99
680 Chesapeake Drive	Project Number:	9903A94(Cambria)	Received: 3/30/99
Redwood City, CA 94063	Project Manager:	Kayvan Kimyai	Reported: 4/5/99

Sample Description: **9903A94-07/HP-5-5-10'**
Laboratory Sample Number: **L903297-07**

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method/ Surrogate Limits	Reporting Limit	Result	Units	Notes*
Sequoia Analytical - San Carlos								
Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT								
Purgeable Hydrocarbons as Gasoline	9040012	3/30/99	3/30/99		1.00	ND	mg/kg	
Benzene	"	"	"		0.00500	ND	"	
Toluene	"	"	"		0.00500	ND	"	
Ethylbenzene	"	"	"		0.00500	ND	"	
Xylenes (total)	"	"	"		0.00500	ND	"	
Methyl tert-butyl ether	"	"	"		0.0500	ND	"	
Surrogate: a,a,a-Trifluorotoluene	"	"	"	*70.0-130*		*91.5*	*%*	

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Sequoia - Redwood City	Project:	Kayvan Kimyai	Sampled:	3/17/99
680 Chesapeake Drive	Project Number:	9903A94(Cambria)	Received:	3/30/99
Redwood City, CA 94063	Project Manager:	Kayvan Kimyai	Reported:	4/5/99

Sample Description: **9903A94-08/HP-5-7'**
Laboratory Sample Number: **L903297-08**

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method/ Surrogate Limits	Reporting Limit	Result	Units	Notes*
Sequoia Analytical - San Carlos								
Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT								
Purgeable Hydrocarbons as Gasoline	9040012	3/30/99	3/30/99		1.00	ND	mg/kg	
Benzene	"	"	"		0.00500	ND	"	
Toluene	"	"	"		0.00500	ND	"	
Ethylbenzene	"	"	"		0.00500	ND	"	
Xylenes (total)	"	"	"		0.00500	ND	"	
Methyl tert-butyl ether	"	"	"		0.0500	ND	"	
Surrogate: a,a,a-Trifluorotoluene	"	"	"	*70.0-130*		*91.5*	*%*	

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Sequoia - Redwood City	Project:	Kayvan Kimyai	Sampled:	3/17/99
680 Chesapeake Drive	Project Number:	9903A94(Cambria)	Received:	3/30/99
Redwood City, CA 94063	Project Manager:	Kayvan Kimyai	Reported:	4/5/99

Sample Description: **9903A94-09/HP-5-5'**
Laboratory Sample Number: **L903297-09**

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method/ Surrogate Limits	Reporting Limit	Result	Units	Notes*
Sequoia Analytical - San Carlos								
Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT								
Purgeable Hydrocarbons as Gasoline	9040012	3/30/99	3/30/99		1.00	ND	mg/kg	
Benzene	"	"	"		0.00500	ND	"	
Toluene	"	"	"		0.00500	ND	"	
Ethylbenzene	"	"	"		0.00500	ND	"	
Xylenes (total)	"	"	"		0.00500	ND	"	
Methyl tert-butyl ether	"	"	"		0.0500	ND	"	
Surrogate: a,a,a-Trifluorotoluene	"	"	"	*70.0-130*		*84.5*	*%*	

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Sequoia - Redwood City	Project:	Kayvan Kimyai	Sampled:	3/17/99
680 Chesapeake Drive	Project Number:	9903A94(Cambria)	Received:	3/30/99
Redwood City, CA 94063	Project Manager:	Kayvan Kimyai	Reported:	4/5/99

ANALYTICAL REPORT FOR L903297

Sample Description	Laboratory Sample Number	Sample Matrix	Date Sampled
9903A94-01/HP-6-19.5'	L903297-01	Soil	3/17/99
9903A94-02/HP-6-15'	L903297-02	Soil	3/17/99
9903A94-03/HP-6-10'	L903297-03	Soil	3/17/99
9903A94-04/HP-6-8'	L903297-04	Soil	3/17/99
9903A94-05/HP-6-5'	L903297-05	Soil	3/17/99
9903A94-06/HP-5-14.5'	L903297-06	Soil	3/17/99
9903A94-07/HP-5-5-10'	L903297-07	Soil	3/17/99
9903A94-08/HP-5-7'	L903297-08	Soil	3/17/99
9903A94-09/HP-5-5'	L903297-09	Soil	3/17/99
9903A94-10/HP-4-5'	L903297-10	Soil	3/17/99
9903A94-11/HP-4-10'	L903297-11	Soil	3/17/99
9903A94-12/HP-4-15.0'	L903297-12	Soil	3/17/99
9903A94-13/HP-6-20'	L903297-13	Soil	3/17/99
9903A94-14/HP-5-15'	L903297-14	Soil	3/17/99
9903A94-15/HP-4-15.5'	L903297-15	Soil	3/17/99

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Sequoia - Redwood City	Project:	Kayvan Kimyai	Sampled: 3/17/99
680 Chesapeake Drive	Project Number:	9903A94(Cambria)	Received: 3/30/99
Redwood City, CA 94063	Project Manager:	Kayvan Kimyai	Reported: 4/5/99

Sample Description: **9903A94-01/HP-6-19.5'**
Laboratory Sample Number: **L903297-01**

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method/ Surrogate Limits	Reporting Limit	Result	Units	Notes*
Sequoia Analytical - San Carlos								
Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT								
Purgeable Hydrocarbons as Gasoline	9040012	3/30/99	3/30/99		1.00	ND	mg/kg	
Benzene	"	"	"		0.00500	ND	"	
Toluene	"	"	"		0.00500	ND	"	
Ethylbenzene	"	"	"		0.00500	ND	"	
Xylenes (total)	"	"	"		0.00500	ND	"	
Methyl tert-butyl ether	"	"	"		0.0500	ND	"	
Surrogate: a,a,a-Trifluorotoluene	"	"	"	*70.0-130*		*93.5*	%	

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Sequoia - Redwood City	Project:	Kayvan Kimyai	Sampled: 3/17/99
680 Chesapeake Drive	Project Number:	9903A94(Cambria)	Received: 3/30/99
Redwood City, CA 94063	Project Manager:	Kayvan Kimyai	Reported: 4/5/99

Sample Description: **9903A94-02/HP-6-15'**
Laboratory Sample Number: **L903297-02**

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method/ Surrogate Limits	Reporting Limit	Result	Units	Notes*
Sequoia Analytical - San Carlos								
Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT								
Purgeable Hydrocarbons as Gasoline	9040012	3/30/99	3/30/99		1.00	ND	mg/kg	
Benzene	"	"	"		0.00500	ND	"	
Toluene	"	"	"		0.00500	ND	"	
Ethylbenzene	"	"	"		0.00500	ND	"	
Xylenes (total)	"	"	"		0.00500	ND	"	
Methyl tert-butyl ether	"	"	"		0.0500	ND	"	
Surrogate: a,a,a-Trifluorotoluene	"	"	"	*70.0-130*		*90.5*	%	

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Sequoia - Redwood City	Project:	Kayvan Kimyai	Sampled:	3/17/99
680 Chesapeake Drive	Project Number:	9903A94(Cambria)	Received:	3/30/99
Redwood City, CA 94063	Project Manager:	Kayvan Kimyai	Reported:	4/5/99

Sample Description: **9903A94-03/HP-6-10'**
Laboratory Sample Number: **L903297-03**

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method/ Surrogate Limits	Reporting Limit	Result	Units	Notes*
Sequoia Analytical - San Carlos								
Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT								
Purgeable Hydrocarbons as Gasoline	9040012	3/30/99	3/30/99		1.00	ND	mg/kg	
Benzene	"	"	"		0.00500	ND	"	
Toluene	"	"	"		0.00500	ND	"	
Ethylbenzene	"	"	"		0.00500	ND	"	
Xylenes (total)	"	"	"		0.00500	ND	"	
Methyl tert-butyl ether	"	"	"		0.0500	ND	"	
Surrogate: a,a,a-Trifluorotoluene	"	"	"	*70.0-130*		*84.5*	*%*	

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Sequoia - Redwood City	Project:	Kayvan Kimyai	Sampled: 3/17/99
680 Chesapeake Drive	Project Number:	9903A94(Cambria)	Received: 3/30/99
Redwood City, CA 94063	Project Manager:	Kayvan Kimyai	Reported: 4/5/99

Sample Description: **9903A94-10/HP-4-5'**
Laboratory Sample Number: **L903297-10**

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method/ Surrogate Limits	Reporting Limit	Result	Units	Notes*
Sequoia Analytical - San Carlos								
Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT								
Purgeable Hydrocarbons as Gasoline	9040012	3/30/99	3/30/99		1.00	ND	mg/kg	
Benzene	"	"	"		0.00500	ND	"	
Toluene	"	"	"		0.00500	ND	"	
Ethylbenzene	"	"	"		0.00500	ND	"	
Xylenes (total)	"	"	"		0.00500	ND	"	
Methyl tert-butyl ether	"	"	"		0.0500	ND	"	
Surrogate: a,a,a-Trifluorotoluene	"	"	"	*70.0-130*		*89.0*	*%*	

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Sequoia - Redwood City	Project:	Kayvan Kimyai	Sampled: 3/17/99
680 Chesapeake Drive	Project Number:	9903A94(Cambria)	Received: 3/30/99
Redwood City, CA 94063	Project Manager:	Kayvan Kimyai	Reported: 4/5/99

Sample Description: **9903A94-11/HP-4-10'**
Laboratory Sample Number: **L903297-11**

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method/ Surrogate Limits	Reporting Limit	Result	Units	Notes*
Sequoia Analytical - San Carlos								
Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT								
Purgeable Hydrocarbons as Gasoline	9040012	3/30/99	3/30/99		50.0	**408**	mg/kg	1
Benzene	"	"	"		0.250	**2.22**	"	
Toluene	"	"	"		0.250	**2.57**	"	
Ethylbenzene	"	"	"		0.250	ND	"	
Xylenes (total)	"	"	"		0.250	**0.350**	"	
Methyl tert-butyl ether	"	"	"		2.50	**2.52**	"	
Surrogate: a,a,a-Trifluorotoluene	"	"	"	*70.0-130*		*11.4*	*%*	

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Sequoia - Redwood City	Project:	Kayvan Kimyai	Sampled: 3/17/99
680 Chesapeake Drive	Project Number:	9903A94(Cambria)	Received: 3/30/99
Redwood City, CA 94063	Project Manager:	Kayvan Kimyai	Reported: 4/5/99

Sample Description: **9903A94-12/HP-4-15.0'**
Laboratory Sample Number: **L903297-12**

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method/ Surrogate Limits	Reporting Limit	Result	Units	Notes*
Sequoia Analytical - San Carlos								
Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT								
Purgeable Hydrocarbons as Gasoline	9040012	3/30/99	3/30/99		1.00	**1.91**	mg/kg	1
Benzene	"	"	"		0.00500	ND	"	
Toluene	"	"	"		0.00500	ND	"	
Ethylbenzene	"	"	"		0.00500	**0.0151**	"	
Xylenes (total)	"	"	"		0.00500	**0.00510**	"	
Methyl tert-butyl ether	"	"	"		0.0500	**0.132**	"	
Surrogate: a,a,a-Trifluorotoluene	"	"	"	*70.0-130*		*93.5*	*%*	

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Sequoia - Redwood City	Project:	Kayvan Kimyai	Sampled: 3/17/99
680 Chesapeake Drive	Project Number:	9903A94(Cambria)	Received: 3/30/99
Redwood City, CA 94063	Project Manager:	Kayvan Kimyai	Reported: 4/5/99

Sample Description: **9903A94-13/HP-6-20'**
Laboratory Sample Number: **L903297-13**

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method/ Surrogate Limits	Reporting Limit	Result	Units	Notes*
Sequoia Analytical - San Carlos								
Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT								
Purgeable Hydrocarbons as Gasoline	9040012	3/30/99	3/30/99		1.00	ND	mg/kg	
Benzene	"	"	"		0.00500	ND	"	
Toluene	"	"	"		0.00500	ND	"	
Ethylbenzene	"	"	"		0.00500	ND	"	
Xylenes (total)	"	"	"		0.00500	ND	"	
Methyl tert-butyl ether	"	"	"		0.0500	ND	"	
Surrogate: a,a,a-Trifluorotoluene	"	"	"	*70.0-130*		*86.0*	*%*	

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Sequoia - Redwood City	Project:	Kayvan Kimyai	Sampled:	3/17/99
680 Chesapeake Drive	Project Number:	9903A94(Cambria)	Received:	3/30/99
Redwood City, CA 94063	Project Manager:	Kayvan Kimyai	Reported:	4/5/99

Sample Description: **9903A94-14/HP-5-15'**
Laboratory Sample Number: **L903297-14**

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method/ Surrogate Limits	Reporting Limit	Result	Units	Notes*
Sequoia Analytical - San Carlos								
Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT								
Purgeable Hydrocarbons as Gasoline	9040012	3/30/99	3/30/99		1.00	ND	mg/kg	
Benzene	"	"	"		0.00500	ND	"	
Toluene	"	"	"		0.00500	ND	"	
Ethylbenzene	"	"	"		0.00500	ND	"	
Xylenes (total)	"	"	"		0.00500	ND	"	
Methyl tert-butyl ether	"	"	"		0.0500	ND	"	
Surrogate: a,a,a-Trifluorotoluene	"	"	"	*70.0-130*		*82.0*	*%*	

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Sequoia - Redwood City	Project:	Kayvan Kimyai	Sampled: 3/17/99
680 Chesapeake Drive	Project Number:	9903A94(Cambria)	Received: 3/30/99
Redwood City, CA 94063	Project Manager:	Kayvan Kimyai	Reported: 4/5/99

Sample Description: **9903A94-15/HP-4-15.5'**
Laboratory Sample Number: **L903297-15**

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method/ Surrogate Limits	Reporting Limit	Result	Units	Notes*
Sequoia Analytical - San Carlos								
Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT								
Purgeable Hydrocarbons as Gasoline	9040012	3/30/99	3/30/99		1.00	ND	mg/kg	
Benzene	"	"	"		0.00500	**0.00560**	"	
Toluene	"	"	"		0.00500	ND	"	
Ethylbenzene	"	"	"		0.00500	ND	"	
Xylenes (total)	"	"	"		0.00500	ND	"	
Methyl tert-butyl ether	"	"	"		0.0500	**0.110**	"	
Surrogate: a,a,a-Trifluorotoluene	*"*	*"*	*"*	*70.0-130*		*87.5*	*%*	

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (650) 364-9600, FAX (650) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (925) 988-9600, FAX (925) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100
1455 McDowell Blvd. North, Ste. D, Petaluma, CA 94954, (707) 792-1865, FAX (707) 792-0342
1551 Industrial Road, San Carlos, CA 94070-4111, (650) 232-9600, FAX (650) 232-9612

Sequoia - Redwood City	Project:	Kayvan Kimyai	Sampled: 3/17/99
680 Chesapeake Drive	Project Number:	9903A94(Cambria)	Received: 3/30/99
Redwood City, CA 94063	Project Manager:	Kayvan Kimyai	Reported: 4/5/99

Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT/Quality Control
Sequoia Analytical - San Carlos

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit / Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Batch: 9040012	**Date Prepared: 3/30/99**					**Extraction Method: EPA 5030B [P/T]**				
Blank	**9040012-BLK1**									
Purgeable Hydrocarbons as Gasoline	3/30/99			**ND**	mg/kg	**1.00**				
Benzene	"			**ND**	"	**0.00500**				
Toluene	"			**ND**	"	**0.00500**				
Ethylbenzene	"			**ND**	"	**0.00500**				
Xylenes (total)	"			**ND**	"	**0.00500**				
Methyl tert-butyl ether	"			**ND**	"	**0.0500**				
Surrogate: a,a,a-Trifluorotoluene	"	*0.200*		*0.185*	"	*70.0-130*	*92.5*			
LCS	**9040012-BS1**									
Benzene	3/30/99	0.200		0.211	mg/kg	70.0-130	105			
Toluene	"	0.200		0.218	"	70.0-130	109			
Ethylbenzene	"	0.200		0.227	"	70.0-130	113			
Xylenes (total)	"	0.600		0.675	"	70.0-130	112			
Surrogate: a,a,a-Trifluorotoluene	"	*0.200*		*0.210*	"	*70.0-130*	*105*			
Matrix Spike	**9040012-MS1**		**L903297-01**							
Benzene	3/30/99	0.200	ND	0.156	mg/kg	60.0-140	**78.0**			
Toluene	"	0.200	ND	0.159	"	60.0-140	**79.5**			
Ethylbenzene	"	0.200	ND	0.167	"	60.0-140	**83.5**			
Xylenes (total)	"	0.600	ND	0.499	"	60.0-140	**83.2**			
Surrogate: a,a,a-Trifluorotoluene	"	*0.200*		*0.167*	"	*70.0-130*	*83.5*			
Matrix Spike Dup	**9040012-MSD1**		**L903297-01**							
Benzene	3/30/99	0.200	ND	0.185	mg/kg	60.0-140	**92.5**	25.0	**17.0**	
Toluene	"	0.200	ND	0.189	"	60.0-140	**94.5**	25.0	**17.2**	
Ethylbenzene	"	0.200	ND	0.202	"	60.0-140	**101**	25.0	**19.0**	
Xylenes (total)	"	0.600	ND	0.596	"	60.0-140	**99.3**	25.0	**17.6**	
Surrogate: a,a,a-Trifluorotoluene	"	*0.200*		*0.185*	"	*70.0-130*	*92.5*			

Sequoia Analytical

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1551 Industrial Road, San Carlos, CA 94070-4111, (650) 232-9600, FAX (650) 232-9612

Sequoia - Redwood City	Project:	Kayvan Kimyai	Sampled:	3/17/99
680 Chesapeake Drive	Project Number:	9903A94(Cambria)	Received:	3/30/99
Redwood City, CA 94063	Project Manager:	Kayvan Kimyai	Reported:	4/5/99

Notes and Definitions

#	Note
1	Chromatogram Pattern: C6-C12
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
Recov.	Recovery
RPD	Relative Percent Difference

L983297

SEQUOIA ANALYTICAL
680 CHESAPEAKE DRIVE
REDWOOD CITY, CA 94063
TEL415-364-9600 FAX415-364-9233

SUB-CHAIN OF CUSTODY

PROJECT SUBBED TO: San Carlos

TAT REQUESTED: ☐ 24H ☐ 48H ☐ 72H ☐ 5D ☐ 10D

DUE DATE: 3/30

REPORT TO: K. Kinzi

WORKORDER # 99-03-A94

PROJECT NAME: Cam Bria

ANALYSIS REQUESTED

FRACTION NUMBER	SAMPLE DESCRIPTION	MATRIX	NUMBER OF CONT.	TYPE CONT.	SAMPLING TIME/DATE	TPH gas / BTEX MTBE							REMARKS
01	HP-6-19.5'	S	1		3/7	X							
02	15'												
03	10'												
04	8'												
05	5'												
06	HP-5-14.5'												
07	10'												
08	7'												
09	5'												
10	HP-4-5'												
11	10'												

RELINQUISHED FROM SEQUOIA BY:	DATE	TIME	RECEIVED BY:	DATE	TIME
	3/29		TN	033099	1430
RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME
RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME

SAMPLE CONDITION? YES

TEMP? 8.2°C

L983297

SEQUOIA ANALYTICAL
680 CHESAPEAKE DRIVE
REDWOOD CITY, CA 94063
TEL415-364-9600 FAX415-364-9233

SUB-CHAIN OF CUSTODY

PROJECT SUBBED TO: San Carlos

TAT REQUESTED: ☐ 24H ☐ 48H ☐ 72H ☐ 5D ☐ 10D

DUE DATE: 3/30

REPORT TO: R. Kinter

WORKORDER # 99-03-A94

PROJECT NAME: Cambria

FRACTION NUMBER	SAMPLE DESCRIPTION	MATRIX	NUMBER OF CONT.	TYPE CONT.	SAMPLING TIME/DATE	ANALYSIS REQUESTED: TPH gas / BTEX MTBE	REMARKS
12	HP-4-15.0'	S	1		3/17	X	
13	6-20'	"	"		"	"	
14	5-15'	"	"		"	"	
15	4-15.5'	"	"		"	"	

RELINQUISHED FROM SEQUOIA BY: DATE 3/29 TIME

RECEIVED BY: DATE 133099 TIME 1431

RELINQUISHED BY: DATE TIME

RECEIVED BY: DATE TIME

RELINQUISHED BY: DATE TIME

RECEIVED BY: DATE TIME

SAMPLE CONDITION? YES

TEMP? 8.2°C

SHELL OIL COMPANY
RETAIL ENVIRONMENTAL ENGINEERING - WEST

CHAIN OF CUSTODY RECORD
Serial No:

Date:
Page 1 of 3

Site Address: 350 Grand Ave, Oakland CA

WIC#: 204-5510-0204

Shell Engineer: Karen Petryna
Phone No: 559-645-9306
Fax #: -> -5643

Consultant Name & Address: CAMBRIA ENVIRONMENTAL
1144 65th St, Suite C, Oakland, CA 94608

Consultant Contact: Darryk Ataide
Phone No.: 510 420-0700
Fax #: 420-9170

Comments: 9903A94

Sampled by: TROY BUGGLE

Printed Name: Troy A Buggle

LAB: Seguoia - Redwood City

CHECK ONE (1) BOX ONLY | C1/D1
- G.W. Monitoring [ ] 4461
- Site Investigation [X] 4461
- Soil Classify/Disposal [ ] 4462
- Water Classify/Disposal [ ] 4463
- Soil/Air Remt. or Sys. O & M [ ] 4452
- Water Remt. or Sys. O & M [ ] 4453
- Other [ ]

TURN AROUND TIME
- 24 hours [ ]
- 48 hours [ ]
- 72 days [X] (Normal)
- Other [ ]

NOTE: Notify Lab as soon as Possible of 24/48 hr. TAT.

UST AGENCY:

Analysis Required

Sample ID	Date	Sludge	Soil	Water	Air	No. of conts.	TPH (EPA 8015 Mod. Gas)	TPH (EPA 8015 Mod. Diesel)	BTEX (EPA 8020/602) + MTBE	Volatile Organics (EPA 8240)	Test for Disposal	Combination TPH 8015 & BTEX 8020		Asbestos	Container Size	Preparation Used	Composite Y/N	MATERIAL DESCRIPTION	SAMPLE CONDITION/ COMMENTS
HP-6 -19.5'	3/17/99		X			1	X	X	X									01	See Page 3. - Confirm highest soil and highest water mTBE concentration via EPA 8260
HP-6 -15'			X			1												02	
HP-6 -10'			X			1												03	
HP-6 8'			X			1												04	
HP-6 5'			X			1												05	
HP-5 -14.5'			X			1												06	
HP-5 -10.5'			X			1												07	
HP-5 -7'	✓		X			1	✓	✓	✓									08	

Relinquished By (signature): Troy A Buggle
Printed Name: TROY BUGGLE
Date: 3/18/99 Time: 10:30

Relinquished By (signature):
Printed Name: LANCE DAVIDSON
Date: 3-18-99 Time:

Relinquished By (signature):
Printed Name:
Date: Time:

Received (signature):
Printed Name: LANCE DAVIDSON
Date: 3-18-99 Time: 1330

Received (signature): Noelle Lane
Printed Name: Noelle Lane
Date: 3/18/99 Time: 1604

Received (signature):
Printed Name:
Date: Time:

THE LABORATORY MUST PROVIDE A COPY OF THIS CHAIN-OF-CUSTODY WITH INVOICE AND RESULTS

SHELL OIL COMPANY
RETAIL ENVIRONMENTAL ENGINEERING - WEST

CHAIN OF CUSTODY RECORD
Seal#:

Date: 2 of 3
Page

Site Address: 350 Grand Ave, Oakland, CA

WIC#: 204-5510-0204

Shell Engineer: Karen Petryna — Phone No.: 559-645-9306 — Fax #: ⇒-5643

Consultant Name & Address: CAMBRIA ENVIRONMENTAL
1144 65th St. Suite C, Oakland, CA 94608

Consultant Contact: Darryk Ataide — Phone No.: 510 420-0700 — Fax #: 420-9170

Comments: 9903A94

Sampled by: TROY BUGGLE

Printed Name: TROY A BUGGLE

LAB: Sequoia Redwood City

UST AGENCY:

Sample ID	Date	Sludge	Soil	Water	Air	No. of conts.	TPH (EPA 8015 Mod. Gas)	TPH (EPA 8015 Mod. Diesel)	BTEX (EPA 8020/602) + MTBE	Volatile Organics (EPA 8240)	Test for Disposal	Combination TPH 8015 & BTEX 8020	Soil Properties	Asbestos	Container Size	Preparation Used	Composite Y/N	MATERIAL DESCRIPTION	SAMPLE CONDITION/ COMMENTS
HP-5-5'	3/17/99		X			1	X	X	X									09	
HP-4-5.5'			X			1												10	
HP-4-10'			X			1												11	
HP-4-15.0'			X			1	X	X	X									12	
HP-6-20'			X			1							X					13	Soil Prop.
HP-5-15'			X			1							X					14	↓
HP-4-15.5'			X			1							X					15	

CHECK ONE (1) BOX ONLY — G/W — TURN AROUND TIME

G.W. Monitoring	☐	4461	24 hours ☐
Site Investigation	☒	4461	48 hours ☐
Soil Classify/Disposal	☐	4462	15 days ☒ (Normal)
Water Classify/Disposal	☐	4463	Other ☐ .....
Soil/Air Remt. or Sys. O & M	☐	4462	
Water Remt. or Sys. O & M	☐	4463	
Other	☐		

NOTE: Notify Lab as soon as Possible of 24/48 hr. TAT.

Relinquished By (signature):	Printed Name:	Date: 3/18/99 Time: 10:30	Received (signature):	Printed Name:	Date: 3/18/99 Time: 1341
Relinquished By (signature):	Printed Name:	Date: 3/18/99 Time:	Received (signature):	Printed Name:	Date: 3/18/99 Time: 1611
Relinquished By (signature):	Printed Name:	Date: Time:	Received (signature):	Printed Name:	Date: Time:

THE LABORATORY MUST PROVIDE A COPY OF THIS CHAIN-OF-CUSTODY WITH INVOICE AND RESULTS

SHELL OIL COMPANY
RETAIL ENVIRONMENTAL ENGINEERING - WEST

CHAIN OF CUSTODY RECORD
Serial No: _____

Date: 3/18/99
Page 3 of 3

Site Address: 350 Grand Ave, Oakland, CA

WIC#: 204-5510-0204

Shell Engineer: Karen Petryna
Phone No.: 559-645-9306
Fax #: -5643

Consultant Name & Address: CAMBRIA ENVIRONMENTAL
1144 65th St. Suite C, Oakland, CA 94608

Consultant Contact: Darryk Attaide
Phone No.: 510 420-0700
Fax #: 420-9170

Comments: 9903A94

Sampled by: TROY BUGGLE

Printed Name: Troy A Bugle

LAB: Sequoia - Redwood City

CHECK ONE (1) BOX ONLY | C/D# | TURN AROUND TIME

CHECK ONE (1) BOX ONLY	C/D#	TURN AROUND TIME
G.W. Monitoring	4461	24 hours
Site Investigation	X 4461	48 hours
Soil Classify/Disposal	4462	96 days X (Normal)
Water Classify/Disposal	4463	Other
Soil/Air Rem. or Sys. O & M	4452	
Water Rem. or Sys. O & M	4453	
Other		

NOTE: Notify Lab as soon as Possible of 24/48 hr. TAT.

UST AGENCY: _____

Sample ID	Date	Sludge	Soil	Water	Air	No. of conts.	TPH (EPA 8015 Mod. Gas)	TPH (EPA 8015 Mod. Diesel)	BTEX (EPA 8020/5030) + MTBE	Volatile Organics (EPA 8240)	Test for Disposal	Combination TPH 8015 & BTEX 8020			Asbestos	Container Size	Preservation Used	Composite Y/N	MATERIAL DESCRIPTION	SAMPLE CONDITION/ COMMENTS
HP-4	3/17/99			X		4	X	X	X										16	Confirm highest MTBE in Water/Soil Samples by EPA Method 8260
HP-5	"			X		4	"	"	"										17	
HP-6	"			X		4	"	"	"										18	
HP-6-14.5																			Hold	
HP-5-11.5																			Hold	
HP-6-15.5																			Hold	

Relinquished By (signature)	Printed Name	Date	Time	Received (signature)	Printed Name	Date	Time
Troy Bugle	TROY BUGGLE	3/18/99	10:30		LANCE DAVIDSON	3-18-99	1330
	LANCE A. DAVIDSON	3-18-99		Noelle Lane	Noelle Lane	3/18/99	1611

THE LABORATORY MUST PROVIDE A COPY OF THIS CHAIN-OF-CUSTODY WITH INVOICE AND RESULTS

SHELL OIL COMPANY
RETAIL ENVIRONMENTAL ENGINEERING - WEST

CHAIN OF CUSTODY RECORD
Serial No: _____

Date: Page 1 of 3

Site Address: 350 Grand Ave, Oakland CA

WIC#: 204-5510-0204

Shell Engineer: Karen Petryna — Phone No.: 559-645-9306, Fax #: -> -5643

Consultant Name & Address: CAMBRIA ENVIRONMENTAL 1144 65th St, Suite C, Oakland, CA 94608

Consultant Contact: Darryk Attarde — Phone No.: 510 420-0700, Fax #: 420-9170

Comments: 9903A94

Sampled by: TROY BUGGLE

Printed Name: Troy A Bugle

LAB: Seguoia - Redwood City

CHECK ONE (1) BOX ONLY — CT/01

- G.W. Monitoring [ ] 4461
- Site Investigation [X] 4441
- Soil Classify/Disposal [ ] 4442
- Water Classify/Disposal [ ] 4443
- Soil/Air Rem. or Sys. O & M [ ] 4452
- Water Rem. or Sys. O & M [ ] 4453
- Other [ ]

TURN AROUND TIME

- 24 hours [ ]
- 48 hours [ ]
- 15 days [X] (Normal)
- Other [ ] _____

NOTE: Notify Lab as soon as Possible of 24/48 hrs. TAT.

UST AGENCY: _____

Analysis Required: TPH (EPA 8015 Mod. Gas); TPH (EPA 8015 Mod. Diesel); BTEX (EPA 8020/5030) + MTBE; Volatile Organics (EPA 8220); Test for Disposal; Combination TPH 8015 & BTEX 8020; Asbestos; Container Size; Preparation Used; Composite Y/N

Sample ID	Date	Sludge	Soil	Water	Air	No. of conts.	MATERIAL DESCRIPTION	SAMPLE CONDITION/ COMMENTS
HP-6-19.5'	3/17/99		X			1	01	See Page 3. - Confirm highest soil and highest water mTBE concentration via EPA 8260.
HP-6-15'			X			1	02	
HP-6-10'			X			1	03	
HP-6 8'			X			1	04	
HP-6 5'			X			1	05	
HP-5-14.5'			X			1	06	
HP-5-10.5'			X			1	07	
HP-5-7'			X			1	08	

Relinquished By (signature)	Printed Name	Date/Time	Received (signature)	Printed Name	Date/Time
Troy A Bugle	TROY BUGGLE	3/18/99 10:30		LANCE DAVISON	3-18-99 1330
Relinquished By (signature):	Printed Name: LANCE DAVISON	Date/Time: 3-18-99	Received (signature): Noelle Lane	Printed Name: Noelle Lane	Date/Time: 3/18/99 1604
Relinquished By (signature):	Printed Name:	Date/Time:	Received (signature):	Printed Name:	Date/Time:

THE LABORATORY MUST PROVIDE A COPY OF THIS CHAIN-OF-CUSTODY WITH INVOICE AND RESULTS

SHELL OIL COMPANY
RETAIL ENVIRONMENTAL ENGINEERING - WEST

CHAIN OF CUSTODY RECORD
Serial No: _____

Date: 2/3
Page 2 of 3

Site Address: 350 Grand Ave, Oakland, CA

WIC#: 204-5510-0204

Shell Engineer: Karen Petryna — Phone No.: 559-645-9306 Fax #: ⇒-5643

Consultant Name & Address: CAMBRIA ENVIRONMENTAL 1144 65th St. Suite C, Oakland, CA 94608

Consultant Contact: Darryk Ataide — Phone No.: 510 420-0700 Fax #: 420-9170

Comments: 9903AG4

Sampled by: TROY BUGGLE

Printed Name: Troy A Bugle

LAB: Sequoia Redwood City

CHECK OFF (1) BOX ONLY — C1/D1

G.W. Monitoring	☐	4461
Site Investigation	☒	4441
Soil Classify/Disposal	☐	4442
Water Classify/Disposal	☐	4443
Soil/Air Remt. or Sys. O & M	☐	4452
Water Remt. or Sys. O & M	☐	4453
Other	☐	

TURN AROUND TIME

24 hours ☐
48 hours ☐
10 days ☒ (Normal)
Other ☐ _____

NOTE: Notify lab as soon as Possible of 24/48 hr. TAT.

UST AGENCY: _____

Analysis Required

Sample ID	Date	Sludge	Soil	Water	Air	No. of conts.	TPH (EPA 8015 Mod. Gas)	TPH (EPA 8015 Mod. Diesel)	BTEX (EPA 8020/602) + MTBE	Volatile Organics (EPA 8240)	Test for Dispersol	Combination TPH 8015 & BTEX 8020	Soil Properties	Asbestos	Container Size	Preparation Used	Composite Y/N	MATERIAL DESCRIPTION	SAMPLE CONDITION/ COMMENTS
HP-5-5'	3/17/99		X			1	X	X	X									09	
HP-4-5.5			X			1												10	
HP-4-10'			X			1												11	
HP-4-15.0'			X			1	X	X	X									12	
HP-6-20'			X			1							X					13	Soil Prop.
HP-5-15'			X			1							X					14	↓
HP-4-15.5			X			1							X					15	

Relinquished By (signature)	Printed Name	Date	Time	Received (signature)	Printed Name	Date	Time
	TROY BUGGLE	3/18/99	10:30		CANCE DAVIDSON	3/18/99	1334
	CANCE DAVIDSON	3/18/99	1611		Noelle Lane	3/18/99	1611

THE LABORATORY MUST PROVIDE A COPY OF THIS CHAIN-OF-CUSTODY WITH INVOICE AND RESULTS