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.

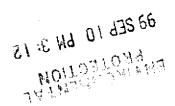
Soil Lithology: The site is underlain by silty and sandy clays of low to moderate estimated permeability to an explored depth of 20 feet below ground surface (ft bgs).

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

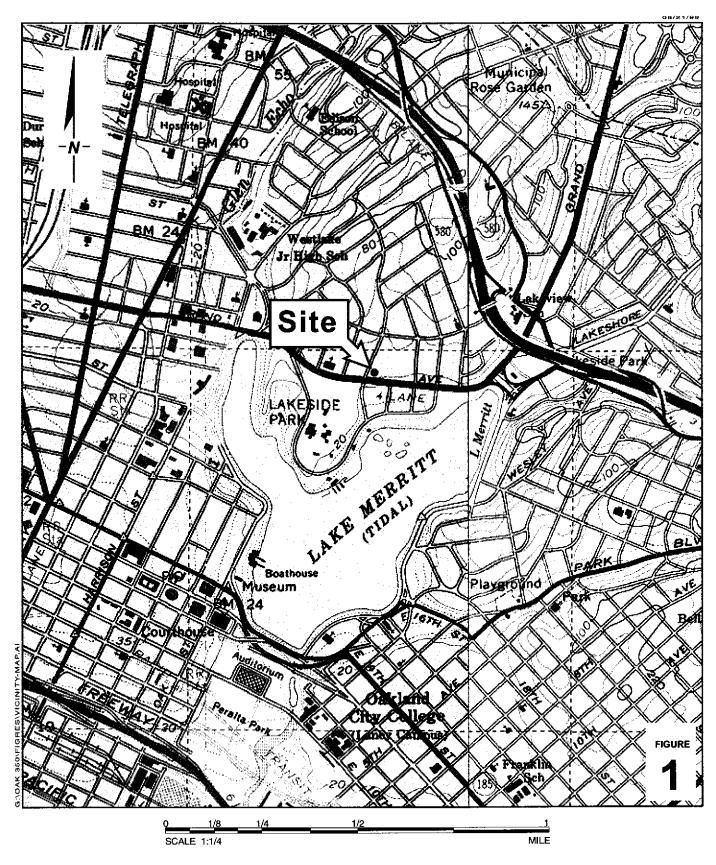
C – Laboratory Analytical Reports

cc:

Ms. Karen Petryna, Equiva Services LLC, P.O. Box 6249, Carson, CA

NO. 6717

90749-6249



Shell-branded Service Station

9

Vicinity Map

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

CAMBRIA



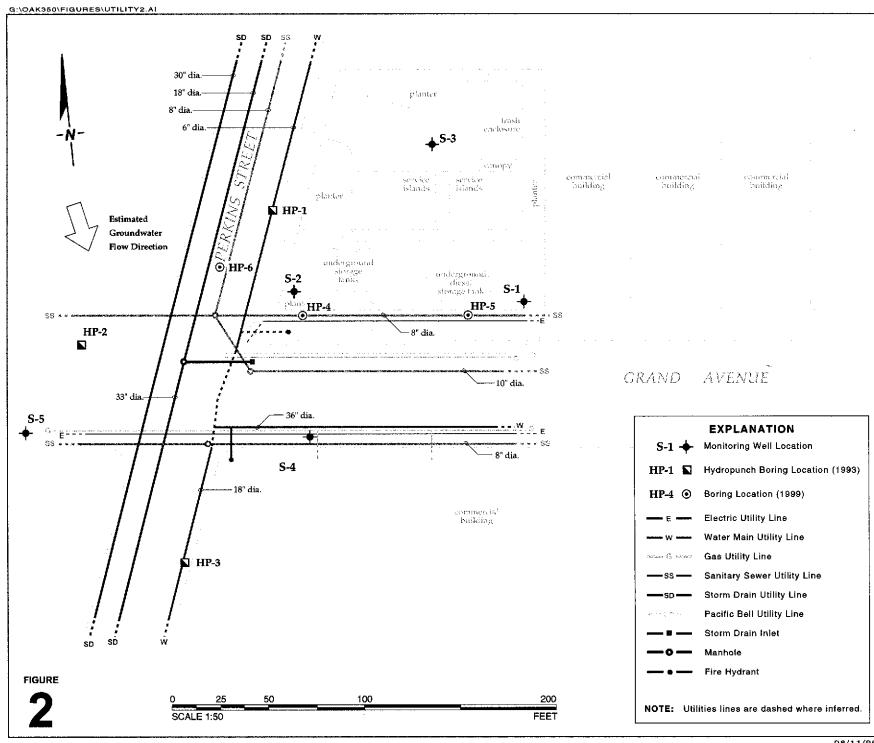


Table 1. Soil Analytical Data - Former Shell-branded Service Station, Incident #98995755, 350 Grand Avenue, Oakland, California

Sample	Depth	Date	TPPH	TEPH	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes
ID	(ft)	Sampled	4		 (Concentrations 	reported in milligran	ns 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
IP-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
IP-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, tohiene, 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	ТЕРН ◀	ТРРН	MTBE (C	Benzene oncentrations in µg	Toluene /L)	Ethylbenzene	Xylenes
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 $n \mu g/L$

ATTACHMENT A

Standard Field Procedures for Soil borings

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

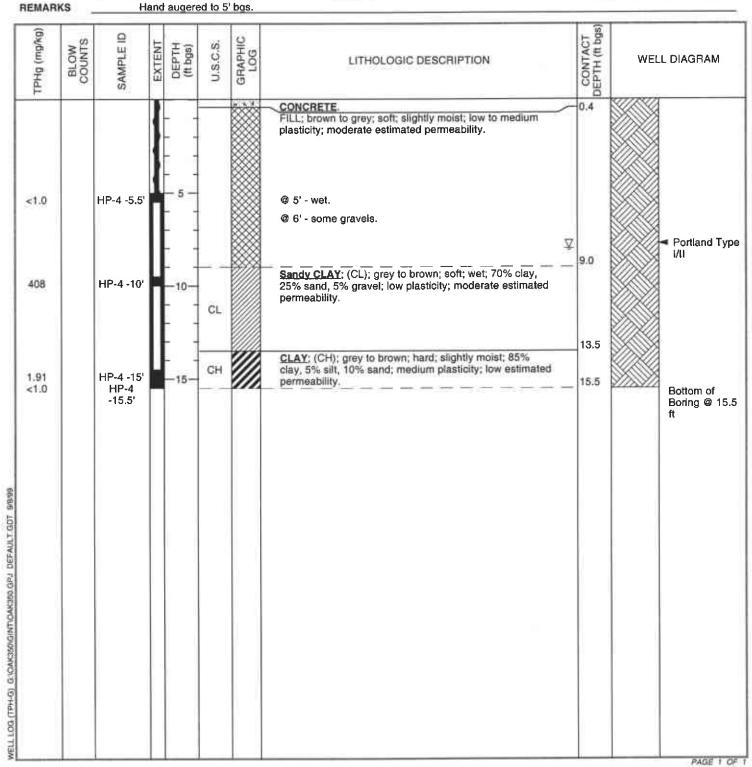
BORING/WELL LOG



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

Fax: (510) 420-9170

HP-4 **CLIENT NAME** Equiva Services LLC **BORING/WELL NAME** JOB/SITE NAME Oakland 350 **DRILLING STARTED** 17-Mar-99 DRILLING COMPLETED ___17-Mar-99 LOCATION 350 Grand Avenue, Oakland, California PROJECT NUMBER WELL DEVELOPMENT DATE (YIELD) NA 240-0715 **GROUND SURFACE ELEVATION** Not Surveyed DRILLER Grega Drillina TOP OF CASING ELEVATION Not Surveyed **DRILLING METHOD** Hydraulic push BORING DIAMETER SCREENED INTERVAL 8.0 ft (17-Mar-99) T. Buggle DEPTH TO WATER (First Encountered) LOGGED BY A. Le May, RG **DEPTH TO WATER (Static)** NA REVIEWED BY



BORING/WELL LOG



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

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	Grega Drilling	GROUND SURFACE ELEVATION Not Surveyed
DRILLING METHOD	Hydraulic push	TOP OF CASING ELEVATION Not Surveyed
BORING DIAMETER	2*	SCREENED INTERVALNA
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)
REVIEWED BY	A. Le May, RG	DEPTH TO WATER (Static)

REMARKS Hand augered to 5' bgs CONTACT DEPTH (# bgs) TPHg (mg/kg) SAMPLE ID GRAPHIC BLOW EXTENT U.S.C.S. DEPTH (ft bgs) WELL DIAGRAM LITHOLOGIC DESCRIPTION CONCRETE.
FILL; brown; soft; moist; low plasticity; moderate 0.4 estimated permeability. <1.0 HP-5 -5.5' @ 5' - 20% clay, 75% sand, 5% gravel. @ 6' - brown to grey; wet. HP-5 -7' <1.0 Portland Type ¥ <1.0 HP-5 @ 10' - brown to grey; wet; 25% clay, 70% sand, 5% 11.0 gravel. CLAY: (CL); brown to red; stiff; 90% clay, 5% silt, 5% -10.5 sand; medium plasticity; low estimated permeability. HP-5 <1.0 15.0 <1.0 -14.5 Bottom of HP-5 -15' Boring @ 15 ft WELL LOG (TPH-G). GYDAK350/GINTIOAK350 GPJ. DEFAULT GDT. 9/6/99 PAGE 1 OF

BORING/WELL LOG



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

Fax: (510) 420-9170

BORING/WELL NAME HP-6 **CLIENT NAME** Equiva Services LLC 17-Mar-99 JOB/SITE NAME Oakland 350 **DRILLING STARTED** LOCATION 350 Grand Avenue, Oakland, California DRILLING COMPLETED ____17-Mar-99 WELL DEVELOPMENT DATE (YIELD) NA **PROJECT NUMBER** 240-0715 Not Surveyed **GROUND SURFACE ELEVATION** DRILLER Grega Drilling DRILLING METHOD TOP OF CASING ELEVATION Not Surveyed Hydraulic push SCREENED INTERVAL NA **BORING DIAMETER** 10.0 ft (17-Mar-99) LOGGED BY T. Buggle **DEPTH TO WATER (First Encountered)** NA REVIEWED BY A. Le May, RG **DEPTH TO WATER (Static)**

Hand augered to 5' bos. REMARKS CONTACT EPTH (# bgs) TPHg (mg/kg) GRAPHIC LOG BLOW EXTENT (ft bgs) U.S.C.S SAMPLE WELL DIAGRAM LITHOLOGIC DESCRIPTION DEPTH 0.4 FILL; brown; soft, dry; low plasticity; high estimated permeability. HP-6 -5' <1.0 @ 7' - slightly moist; low to medium plasticity; moderate <1.0 HP-6 -8' estimated permeability. ∇ HP-6 -10' <1.0 Portland Type @ 10' - dark brown; wet; low plasticity; moderate to high 11.0 estimated permeability. Sandy CLAY; (CL); brown; stiff; moist; 60% clay, 5% silt, 35% sand; medium plasticity; low estimated permeability. <1.0 HP-6 -15" CL @ 15' - medium stiff; slightly moist. HP-6 <1.0 20.0 <1.0 -19.51 Bottom of HP-6 -20' Boring @ 20 ft MELL LOG (TPH-G), GYGAK380/GINTICAK350 GPJ, DEFALILT GDT, BI8/98 PAGE 1 O

ATTACHMENT C

Laboratory Analytical Reports



680 Chesapeake Drive 404 N. Wiget Lane 819 Striker Avenue, Suite 8 1455 McDowell Blvd, North, Ste. D 1551 Industrial Road

Redwood City, CA 94063 Walnut Creek, CA 94598 Sacramento, CA 95834 Petaluma, CA 94954

(916) 921-9600 (707) 792-1865 San Carlos, CA 94070-4111 (650) 232-9600

(650) 364-9600

(925) 988-9600

FAX (650) 364-9233 FAX (925) 988-9673 FAX (916) 921-0100 FAX (707) 792-0342 FAX (650) 232-9612

Cambria

1144 65th St. Suite C Oakland, CA 94608

Client Proj. ID: Shell 350 Grand Ave, Oakland

Received: 03/18/99

Attention: Darryk Ataide Lab Proj. ID: 9903A94

Reported: 04/13/99

LABORATORY NARRATIVE

In order to properly interpret this report, it must be reproduced in its entirety. Thi report contains a total of 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



Redwood City, CA 94063 Walnut Creek, CA 94598 Sacramento, CA 95834 Petaluma, CA 94954 San Carlos, CA 94070-4111

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Cambria

1144 65th St. Suite C Oakland, CA 94608 Client Proj. ID: Shell 350 Grand Ave, Oakland

Sample Descript: HP-6-19.5

Matrix: SOLID

Analysis Method: EPA 8015 Mod Lab Number: 9903A94-01 Sampled: 03/17/99 Received: 03/18/99 Extracted: 03/29/99

Analyzed: 03/31/99 Reported: 04/13/99

QC Batch Number: GC0329990HBPEXA

Instrument ID: GCHP5B

Attention: Darryk Ataide

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit mg/Kg		Sample Results mg/Kg
TEPH as Diesel Chromatogram Pattern:	1.0	************	5.8
Unidentified HC			C9-C24
Surrogates n-Pentacosane (C25)	Control Limits %		Recovery
n-rentacosane (023)	50	150	85

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

SEQUOIA ANALYTICAL - ELAP #1210

Project Manager 1

Page:



Redwood City, CA 94063 Walnut Creek, CA 94598 Sacramento, CA 95834 Petaluma, CA 94954

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(650) 364-9600

FAX (650) 364-9233 FAX (925) 988-9673 FAX (916) 921-0100 FAX (707) 792-0342 FAX (650) 232-9612

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

Client Proj. ID: Shell 350 Grand Ave, Oakland Sample Descript: HP-6-15'

Sampled: 03/17/99 Received: 03/18/99 Extracted: 03/29/99

Attention: Darryk Ataide

Matrix: SOLID Analysis Method: EPA 8015 Mod Lab Number: 9903A94-02

Analyzed: 03/31/99 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 Chromatogram Pattern:	1.0		. 3.8
Unidentified HC		•••••	. C9-C24
Surrogates n-Pentacosane (C25)	Control Limits % 50	150	Recovery 93

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

SEQUOIA ANALYTICAL ELAP #1210

Project Manager



Redwood City, CA 94063 Walnut Creek, CA 94598 Sacramento, CA 95834 Petaluma, CA 94954 San Carlos, CA 94070-4111

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Cambria 1144 65th St. Suite C Oakland, CA 94608 Client Proj. ID: Shell 350 Grand Ave, Oakland Sample Descript: HP-6-10' Sampled: 03/17/99 Received: 03/18/99

Attention: Darryk Ataide

Matrix: SOLID Analysis Method: EPA 8015 Mod Extracted: 03/29/99 Analyzed: 03/31/99

Lab Number: 9903A94-03

-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 Chromatogram Pattern:	1.0		3.1
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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Cambria 1144 65th St. Suite C Oakland, CA 94608

Client Proj. ID: Shell 350 Grand Ave, Oakland

Sample Descript: HP-6-8' Matrix: SOLID

Analysis Method: EPA 8015 Mod Lab Number: 9903A94-04

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

QC Batch Number: GC0329990HBPEXA

Instrument ID: GCHP5A

Attention: Darryk Ataide

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit mg/Kg	S	ample Results mg/Kg
TEPH as Diesel Chromatogram Pattern: Unidentified HC	1.0		5.2 C9-C24
Surrogates n-Pentacosane (C25)	Control Limits % 50	150	Recovery 96

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

Client Proj. ID. Shell 350 Grand Ave, Oakland

Sample Descript: HP-6-5'

Matrix: SOLID Analysis Method: EPA 8015 Mod Lab Number: 9903A94-05

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

Reported: 04/13/99

Attention: Darryk Ataide QC Batch Number: GC0329990HBPEXA

Instrument ID: GCHP5B

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte

Detection Limit mg/Kg

Sample Results mg/Kg

TEPH as Diesel

Chromatogram Pattern:

1.0

N.D.

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

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

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-5-14.5'

Matrix: SOLID

Analysis Method: EPA 8015 Mod Lab Number: 9903A94-06

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

Sampled: 03/17/99

QC Batch Number: GC0329990HBPEXA

Instrument ID: GCHP5B

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TEPH as Diesel Chromatogram Pattern:	1.0	5.6
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.

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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-5-10'

Matrix: SOLID

Analysis Method: EPA 8015 Mod Lab Number: 9903A94-07

Sampled: 03/17/99 Received: 03/18/99 Extracted: 03/29/99

Analyzed: 03/31/99 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 Chromatogram Pattern:	1.0		1.8
Unidentified HC			C9-C24
Surrogates n-Pentacosane (C25)	Control Limits %	g	% Recovery
n-Pentacosane (C25)	50	150	87

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

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Cambria

1144 65th St. Suite C Oakland, CA 94608

Client Proj. ID: Shell 350 Grand Ave, Oakland

Sample Descript: HP-5-7'

Matrix: SOLID

Analysis Method: EPA 8015 Mod Lab Number: 9903A94-08

Sampled: 03/17/99 Received: 03/18/99 Extracted: 03/29/99

Analyzed: 03/31/99 Reported: 04/13/99

QC Batch Number: GC0329990HBPEXA

Instrument ID: GCHP5B

Attention: Darryk Ataide

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit mg/Kg	Sa	mple Results mg/Kg
TEPH as Diesel Chromatogram Pattern:	1.0		4.8
Unidentified HC			C9-C24
Surrogates n-Pentacosane (C25)	Control Limits %		ecovery
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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Cambria

1144 65th St. Suite C Oakland, CA 94608 Client Proj. ID: Shell 350 Grand Ave, Oakland Sampled: 03/17/99

Sample Descript: HP-5-5' Matrix: SOLID

Analysis Method: EPA 8015 Mod Lab Number: 9903A94-09 Sampled: 03/17/99 Received: 03/18/99 Extracted: 03/29/99

Analyzed: 03/31/99 Reported: 04/13/99

Attention: Darryk Ataide

QC Batch Number: GC0329990HBPEXA

Instrument ID: GCHP5A

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit mg/Kg	!	Sample Results mg/Kg
TEPH as Diesel Chromatogram Pattern:	1.0	***************************************	1.1
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.

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Project Manager



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Cambria

1144 65th St. Suite C Oakland, CA 94608

lient Proi. ID: Shell 350 Grand Ave, Oakland Sampled: 03/17/99 Client Proj. ID:

Sample Descript: HP-4-5.5'

Matrix: SOLID

Analysis Method: EPA 8015 Mod Lab Number: 9903A94-10

Received: 03/18/99 Extracted: 03/29/99

Analyzed: 03/31/99 Reported: 04/13/99

QC Batch Number: GC0329990HBPEXA

Instrument ID: GCHP5A

Attention: Darryk Ataide

Total Extractable Petroleum Hydrocarbons (TEPH)

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

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

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

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Project Manager

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Cambria

1144 65th St. Suite C Oakland, CA 94608

Client Proj. ID: Shell 350 Grand Ave, Oakland

Sample Descript: HP-4-10'

Matrix: SOLID Analysis Method: EPA 8015 Mod Lab Number: 9903A94-11

Sampled: 03/17/99 Received: 03/18/99

Extracted: 03/30/99 Analyzed: 04/01/99 Reported: 04/13/99

QC Batch Number: GC0330990HBPEXA

Instrument ID: GCHP4B

Attention: Darryk Ataide

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit mg/Kg	S	ample Results mg/Kg
TEPH as Diesel Chromatogram Pattern:	20		140
Unidentified HC			C9-C24
Surrogates n-Pentacosane (C25)	Control Limits %	%	Recovery
n-Pentacosane (C25)	50	150	111

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

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Cambria

1144 65th St. Suite C Oakland, CA 94608

Client Proj. ID: Shell 350 Grand Ave, Oakland

Sample Descript: HP-4-15.0

Matrix: SOLID

Analysis Method: EPA 8015 Mod

Lab Number: 9903A94-12

Sampled: 03/17/99 Received: 03/18/99

Extracted: 03/30/99 Analyzed: 04/01/99 Reported: 04/13/99

QC Batch Number: GC0330990HBPEXA

Instrument ID: GCHP5A

n-Pentacosane (C25)

Attention: Darryk Ataide

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte Detection Limit Sample Results mg/Kg mg/Kg TEPH as Diesel 1.0 N.D. Chromatogram Pattern: Surrogates **Control Limits %** % Recovery

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

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Cambria 1144 65th St. Suite C Oakland, CA 94608 Client Proj. ID: Shell 350 Grand Ave, Oakland Sampled: 03/17/99

Sample Descript: HP-6-20'

Matrix: SOLID Analysis Method: EPA 8015 Mod Lab Number: 9903A94-13 Sampled: 03/17/99 Received: 03/18/99 Extracted: 03/30/99 Analyzed: 03/31/99 Reported: 04/13/99

QC Batch Number: GC0330990HBPEXA

Instrument ID: GCHP5A

Attention: Darryk Ataide

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit mg/Kg		Sample Results mg/Kg
TEPH as Diesel Chromatogram Pattern:	1.0		1.4
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.

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

Client Proj. ID: Shell 350 Grand Ave, Oakland Sample Descript: HP-5-15'

Sampled: 03/17/99 Received: 03/18/99

Attention: Darryk Ataide

Matrix: SOLID Analysis Method: EPA 8015 Mod Lab Number: 9903A94-14

Extracted: 03/30/99 Analyzed: 04/01/99 Reported: 04/13/99

QC Batch Number: GC0330990HBPEXA

Instrument ID: GCHP5A

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte **Detection Limit** Sample Results mg/Kg mg/Kg TEPH as Diesel 1.0 N.D. Chromatogram Pattern: % Recovery Surrogates Control Limits % n-Pentacosane (C25) 150 68

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

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Cambria

1144 65th St. Suite C Oakland, CA 94608 Client Proj. ID: Shell 350 Grand Ave, Oakland

Sample Descript: HP-4-15.5'

Matrix: SOLID

Analysis Method: EPA 8015 Mod Lab Number: 9903A94-15 Sampled: 03/17/99 Received: 03/18/99 Extracted: 03/30/99

Analyzed: 04/01/99 Reported: 04/13/99

QC Batch Number: GC0330990HBPEXA

Instrument ID: GCHP5A

Attention: Darryk Ataide

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Sample Results mg/Kg
TEPH as Diesel Chromatogram Pattern:	5.1
Unidentified HC	C9-C24
Surrogates	% Recovery 67
Surrogates n-Pentacosane (C25)	% Recov

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

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Cambria 1144 65th St. Suite C Oakland, CA 94608 Client Proj. ID: Shell 350 Grand Ave, Oakland Sample Descript: HP-4

Sampled: 03/17/99 Received: 03/18/99 Extracted: 03/29/99

Attention: Darryk Ataide

Matrix: LIQUID Analysis Method: EPA 8015 Mod Lab Number: 9903A94-16

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	5000	********	83000
Chromatogram Pattern: Unidentified HC			C9-C24
Surrogates (COS)	Control Limits %		% Recovery
n-Pentacosane (C25)	50	150	Q

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

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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-4

Matrix: LIQUID

Analysis Method: 8015Mod/8020 Lab Number: 9903A94-16

Sampled: 03/17/99 Received: 03/18/99

Analyzed: 03/29/99 Reported: 04/13/99

QC Batch Number: GC032999BTEX03A

Instrument ID: GCHP03

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Dei	tection Limit ug/L		Sample Results ug/L
TPPH as Gas	***************	20000		
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.

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

ambria Client Proj. ID: Shell 350 Grand Ave, Oakland Sampled: 03/17/

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

Attention: Darryk Ataide

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit ug/L		Sample Results ug/L
TEPH as Diesel Chromatogram Pattern:	50		160
Unidentified HC	***************************************		C9-C24
Surrogates n-Pentacosane (C25)	Control Limits %	,	% Recovery
n-Pentacosane (C25)	50	150	95

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

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Project Manager



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Cambria

1144 65th St. Suite C Oakland, CA 94608

Client Proj. ID: Shell 350 Grand Ave, Oakland

Sample Descript: HP-5

Matrix: LIQUID

Analysis Method: 8015Mod/8020 Lab Number: 9903A94-17

Sampled: 03/17/99 Received: 03/18/99

Analyzed: 03/29/99 Reported: 04/13/99

QC Batch Number: GC032999BTEX03A

Instrument ID: GCHP03

Attention: Darryk Ataide

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas Methyl t-Butyl Ether Benzene Toluene Ethyl Benzene Xylenes (Total) Chromatogram Pattern:	2.5 0.50 0.50 0.50 0.50 0.50	N.D. N.D. N.D. N.D. N.D. N.D.
Surrogates Trifluorotoluene	Control Limits % 130	% Recovery 104

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

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Project Manager

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94

Cambria 1144 65th St. Suite C

Client Proj. ID: Shell 350 Grand Ave. Oakland Sample Descript: HP-6

Sampled: 03/17/99

Oakland, CA 94608

Matrix: LIQUID

Received: 03/18/99 Extracted: 03/29/99

Attention: Darryk Ataide

Analysis Method: EPA 8015 Mod Lab Number: 9903A94-18

Analyzed: 03/31/99 Reported: 04/13/99

QC Batch Number: GC0329990HBPEXB

Instrument ID: GCHP5A

Total Extractable Petroleum Hydrocarbons (TEPH)

50

Analyte **Detection Limit** Sample Results ug/L ug/L **TEPH** as Diesel 50 N.D. Chromatogram Pattern: Surrogates % Recovery Control Limits % n-Pentacosane (C25)

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

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Project Manager

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Cambria

1144 65th St. Suite C Oakland, CA 94608

Client Proj. ID: Shell 350 Grand Ave, Oakland

Sample Descript: HP-6

Matrix: LIQUID

Analysis Method: 8015Mod/8020 Lab Number: 9903A94-18

Sampled: 03/17/99 Received: 03/18/99

Analyzed: 03/29/99 Reported: 04/13/99

Attention: Darryk Ataide

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 Methyl t-Butyl Ether Benzene Toluene Ethyl Benzene Xylenes (Total) Chromatogram Pattern:	50 2.5 0.50 0.50 0.50 0.50		N.D. 5.2 N.D. N.D. N.D. N.D.
Surrogates Trifluorotoluene	Control Limits %	130	% Recovery 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: Conc. Spiked, mg/Kg: 16 mg/Kg

17

MS/MSD ARE REFFERED FROM

GC0325990HBPEXA

Matrix Spike, mg/Kg:

28

% Recovery:

71

Matrix

Spike Duplicate, mg/Kg:

28

% Recovery:

71

Relative % Difference:

0.0

RPD Control Limits:

0-50

LCS Batch#: BLK032999AS

Date Prepared:

3/29/99

Date Analyzed: Instrument I.D.#: 3/30/99 GCHP5A

Conc. Spiked, mg/Kg:

17

Recovery, mg/Kg:

LCS % Recovery:

13 76

Percent Recovery Control Limits:

MS/MSD

SEQUOIA ANALYTICAL

50-150

LCS

60-140

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

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.

Kayvan Kimwai

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 16-18

Reported: Apr 14, 1999

QUALITY CONTROL DATA REPORT

Matrix:	Liquid				
Method:	EPA 8020				
Analyst:	MM				
ANALYTE	Benzene	Toluene	Ethylbenzene	Xylenes	
QC Batch #: 0	GC032999BTEX				
Sample No.: 9	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	1 1	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	4
RPD Control Limits:	0-25	0-25	0-25	0-25	
		•			
LCS Batch#: 0	3C032999BTEX	03A			
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 Contr	ol 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.

Please Note:

SEQUOIA ANALYTICAL

Kayvan Kimyai Project Menager

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:

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

SEQUOIA ANALYTICAL

50-150

60-140

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

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.

Kawan Kimyai 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 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.

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.

Kayvan Kimya Project Manager

SEQUOIA ANALYTICAL



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,

Laboratory Supervisor - Rock Properties

JLS:nw

1 original report, 1 cc report: Addressee



Sequoia Analytical

File No.:57111-99065

(Redwood City)
Cambria -9903A94

Sam	ple ID	Pern	neability	Porosity	Water		Density		Description	
		Verti	cal (Kair)	(Total)	Saturation	Dry Bulk Natural Bulk Grain				
Fraction	Desc.	md	cm/sec	%	%PV	g/cc	g/cc	g/cc		
13	HP-6-20.0'	442.0	3.79E-04	26.0	99.4	1.95	2.21	2.63	Gray v sity 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 sit	
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

Sam	ple ID	Perm	eability	Porosity	Water		Density		Description
•	•	Horizo	ntal (Kair)	(Total)	Saturation	Dry Bulk	Natural Bulk	Grain	•
Fraction	Desc.	md	cm/sec	<u>%</u>	%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 sity 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 sit
15	HP-4-15.5'	<1.0	8.58 E-0 7	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.



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

Project: Project Number: Project Manager:

Kayvan Kimyai 9903A94(Cambria) Kayvan Kimyai

3/17/99 Sampled: Received: 3/30/99 4/5/99 Reported:

Sample Description: Laboratory Sample Number: 9903A94-04/HP-6-81

	Batch	Date	Date	Specific Method/	Reporting			
Analyte	Number	Prepared	Analyzed	Surrogate Limits	Limit	Result	Units	Notes*
		<u>Seque</u>	oia Analytical	- San Carlos				
Total Purgeable Hydrocarbons (C6-C	12), BTEX an	d MTBE by	DHS LUFT					
Purgeable Hydrocarbons as Gasoline	9040012	3/30/99	3/30/99		1.00	ND	mg/kg	
Benzene	*1	It	**		0.00500	ND	+1	
Toluene	11	u	***		0.00500	ND	**	•
Ethylbenzene	71	If	īr		0.00500	ND	**	
Xylenes (total)	*1	If	11		0.00500	ND	**	
Methyl tert-butyl ether	"	ц	**		0.0500	ND	71	
Surrogate: a,a,a-Trifluorotoluene	и	"	"	70.0-130		90.5	%	



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Sequoia - Redwood City 680 Chesapeake Drive Redwood City, CA 94063 Project: Kayvan Kimyai
Project Number: 9903A94(Cambria)
Project Manager: Kayvan Kimyai

Sampled: 3/17/99 Received: 3/30/99 Reported: 4/5/99

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

	Batch	Date	Date	Specific Method/	Reporting			
Analyte	Number	Prepared	Analyzed	Surrogate Limits	Limit	Result	Units	Notes*
		Seque	oia Analytica	l - San Carlos				
Total Purgeable Hydrocarbons (C6-C	12), BTEX an	d MTBE by	DHS LUFT					
Purgeable Hydrocarbons as Gasoline	9040012	3/30/99	3/30/99		1.00	ND	mg/kg	
Benzene	*r	11	tt		0.00500	ND	17	-
Toluene	11	11	16		0.00500	ND	17	•
Ethylbenzene	11	11	R		0.00500	ND	It.	
Xylenes (total)	11	71	IT		0.00500	ND	IT.	
Methyl tert-butyl ether	**	11	Ir		0.0500	ND	It	
Surrogate: a,a,a-Trifluorotoluene	н	H	"	70.0-130		89.5	%	



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

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

	Batch	Date	Date	Specific Method/	Reporting			
Analyte	Number	Prepared	Analyzed	Surrogate Limits	Limit	Result	Units	Notes*
		Seque	oia Analytica	I - San Carlos				
Total Purgeable Hydrocarbons (C6-C	12), BTEX ar	nd MTBE by	DHS LUFT					
Purgeable Hydrocarbons as Gasoline	9040012	3/30/99	3/30/99		1.00	ND	mg/kg	
Benzene	11	П	If		0.00500	ND	I†	
Toluene	17	п	IT		0.00500	ND	"	•
Ethylbenzene	11	п	f†		0.00500	ND	r•	
Xylenes (total)	18	и	ít.		0.00500	ND	I !	
Methyl tert-butyl ether	57	п	17		0.0500	ND	tt.	
Surrogate: a,a,a-Trifluorotoluene	n .	n .	"	70.0-130		87.5	%	



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Sequoia - Redwood City 680 Chesapeake Drive Redwood City, CA 94063 Project:
Project Number:
Project Manager:

Kayvan Kimyai 9903A94(Cambria) Kayvan Kimyai Sampled: 3/17/99 Received: 3/30/99 Reported: 4/5/99

Sample Description:

Laboratory Sample Number:

9903A94-07/HP-5-5-10*

	Batch	Date	Date	Specific Method/	Reporting			
Analyte	Number	Prepared	Analyzed	Surrogate Limits	Limit	Result	Units	Notes*
				•				
		Seque	ia Analytical	- San Carlos				
Total Purgeable Hydrocarbons (C6-C1	12), BTEX an	d MTBE by	DHS LUFT					
Purgeable Hydrocarbons as Gasoline	9040012	3/30/99	3/30/99		1.00	ND	mg/kg	
Benzene	**	11	lt.		0.00500	ND	II .	
Toluene	*1	11	If		0.00500	ND	If .	•
Ethylbenzene	71	"	п		0.00500	ND	II	
Xylenes (total)	**	11	If		0.00500	ND	II	
Methyl tert-butyl ether	*1	*1	II		0.0500	ND	II.	
Surrogate: a,a,a-Trifluorotoluene	"	п	"	70.0-130		91.5	%	



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FAX (650) 232-9612

Sequoia - Redwood City 680 Chesapeake Drive Redwood City, CA 94063 Project:
Project Number:
Project Manager:

Kayvan Kimyai 9903A94(Cambria) Kayvan Kimyai Sampled: 3/17/99 Received: 3/30/99 Reported: 4/5/99

Sample Description: Laboratory Sample Number:

Sequoia Analytical - San Carlos

9903A94-08/HP-5-7

	Batch	Date	Date	Specific Method/	Reporting			
Analyte	Number	Prepared	Analyzed	Surrogate Limits	Limit	Result	Units	Notes*
		Seque	oia Analytica	l - San Carlos				
Total Purgeable Hydrocarbons (C6-C	12), BTEX ar	nd MTBE by	DHS LUFT					
Purgeable Hydrocarbons as Gasoline	9040012	3/30/99	3/30/99		1.00	ND	mg/kg	
Benzene	II .	**	**		0.00500	ND	**	
Toluene	II .	ti	ŧŧ		0.00500	ND	**	-
Ethylbenzene	Ц	н	11		0.00500	ND	*1	
Xylenes (total)	и	Ħ	n		0.00500	ND	Ħ	
Methyl tert-butyl ether	li .	**	Ħ		0.0500	ND	11	
Surrogate: a,a,a-Trifluorotoluene	rr .	"	"	70.0-130		91.5	%	



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

Project: Kayvan Kimyai Project Number: 9903A94(Cambria) Project Manager: Kayvan Kimyai

Sampled: 3/17/99 Received: 3/30/99 Reported: 4/5/99

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

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method/ Surrogate Limits	Reporting Limit	Result	Units	Notes*
		Seque	oia Analytical	- San Carlos				
Total Purgeable Hydrocarbons (C6-C1	2), BTEX an	d MTBE by	DHS LUFT					
Purgeable Hydrocarbons as Gasoline	9040012	3/30/99	3/30/99		1.00	ND	mg/kg	
Benzene	18	11	11		0.00500	ND	11	
Toluene	It.	17	11		0.00500	ND	н	
Ethylbenzene	17	11	11		0.00500	ND	н	
Xylenes (total)	If	Ħ	11		0.00500	ND	н	
Methyl tert-butyl ether	IP	17	п		0.0500	ND	п	
Surrogate: a,a,a-Trifluorotoluene	#	n	ır	70.0-130		84.5	%	



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

Project: Kayvan Kimyai
Project Number: 9903A94(Cambria)
Project Manager: Kayvan Kimyai

Sampled: 3/17/99 Received: 3/30/99 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 ^t	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 680 Chesapeake Drive Redwood City, CA 94063 Project: Kayvan Kimyai
Project Number: 9903A94(Cambria)
Project Manager: Kayvan Kimyai

Sampled: 3/17/99 Received: 3/30/99 Reported: 4/5/99

Sample Description: Laboratory Sample Number:

9903A94-01/HP-6-19.5' L903297-01

	Batch	Date	Date	Specific Method/	Reporting			
Analyte	Number	Prepared	Analyzed	Surrogate Limits	Limit	Result	Units	Notes*
		Segue	nia Analytical	- San Carlos				
Total Purgeable Hydrocarbons (C6-C	12), BTEX an			Sau Carros				
Purgeable Hydrocarbons as Gasoline	9040012	3/30/99	3/30/99		1.00	ND	mg/kg	
Benzene	**	п	Ħ		0.00500	ND	**	
Toluene	*1	II	71		0.00500	ND	**	
Ethylbenzene	er .	Ir	**		0.00500	ND	17	
Xylenes (total)	**	Ш	н		0.00500	ND	#	
Methyl tert-butyl ether	19	П	**		0.0500	ND	#	
Surrogate: a,a,a-Trifluorotoluene	"	ır	n .	70.0-130		93.5	%	



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Sequoia - Redwood City 680 Chesapeake Drive Redwood City, CA 94063 Project: Kayvan Kimyai
Project Number: 9903A94(Cambria)
Project Manager: Kayvan Kimyai

Sampled: 3/17/99 Received: 3/30/99 Reported: 4/5/99

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

	Batch	Date	Date	Specific Method/	Reporting		•	
Analyte	Number	Prepared	Analyzed	Surrogate Limits	Limit	Result	Units	Notes*
		Seque	oia Analytica	l - San Carlos				
Total Purgeable Hydrocarbons (C6-C	12), BTEX ar	id MTBE by	DHS LUFT					
Purgeable Hydrocarbons as Gasoline	9040012	3/30/99	3/30/99		1.00	ND	mg/kg	
Benzene	17	11	11		0.00500	ND	"	
Toluene	If	17	11		0.00500	ND	11	•
Ethylbenzene	II .	11	n		0.00500	ND	11	
Xylenes (total)	П	**	11		0.00500	ND	11	
Methyl tert-butyl ether	11	7.5	*11		0.0500	ND	11	
Surrogate: a,a,a-Trifluorotoluene	H	"	"	70.0-130		90.5	%	



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San Carlos, CA 94070-4111 (650) 232-9600

FAX (650) 232-9612

Sequoia - Redwood City 680 Chesapeake Drive Redwood City, CA 94063 Project: Kayvan Kimyai
Project Number: 9903A94(Cambria)
Project Manager: Kayvan Kimyai

Sampled: 3/17/99 Received: 3/30/99 Reported: 4/5/99

Sample Description: Laboratory Sample Number: 9903A94-03/HP-6-10¹

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method/ Surrogate Limits	Reporting Limit	Result	Units	Notes*
Allalyte	Nullipei	riepaieu	Allatyzeu	Surrogate Limits	Lillit	Result	Cints	110103
		Seque	oia Analytica	l - San Carlos				
Total Purgeable Hydrocarbons (C6-C	12), BTEX an	id MTBE by	DHS LUFT					
Purgeable Hydrocarbons as Gasoline	9040012	3/30/99	3/30/99		1.00	ND	mg/kg	
Benzene	"	UT.	71		0.00500	ND	11	
Toluene	Ħ	It	**		0.00500	ND	11	
Ethylbenzene	*11	It	11		0.00500	ND	11	
Xylenes (total)	#1	u .	11		0.00500	ND	11	
Methyl tert-butyl ether	*11	II.	7.5		0.0500	ND	11	
Surrogate: a,a,a-Trifluorotoluene	и	"	n	70.0-130		84.5	%	



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

Project: Kayvan Kimyai 9903A94(Cambria) Project Number: Project Manager: Kayvan Kimyai

3/17/99 Sampled: Received: 3/30/99 4/5/99 Reported:

Sample Description: **Laboratory Sample Number:**

Sequoia Analytical - San Carlos

9903A94-10/HP-4-5'

	Batch	Date	Date	Specific Method/	Reporting	-		
Analyte	Number	Prepared	Analyzed	Surrogate Limits	Limit	Result	Units	Notes*
		<u>Sequ</u>	oia Analytica	l - San Carlos				
Total Purgeable Hydrocarbons (C6-C	12), BTEX ar	id MTBE by	DHS LUFT					
Purgeable Hydrocarbons as Gasoline	9040012	3/30/99	3/30/99		1.00	ND	mg/kg	
Benzene	**	н	II .		0.00500	ND	IF	
Toluene	#	п	If		0.00500	ND	R	•
Ethylbenzene	17	п	ıţ		0.00500	ND	ıt .	
Xylenes (total)	**	11	If		0.00500	ND	It	
Methyl tert-butyl ether	**	П	If		0.0500	ND	It	
Surrogate: a,a,a-Trifluorotoluene	н	n	"	70.0-130		89.0	%	



Sacramento, CA 95834

Petaluma, CA 94954

San Carlos, CA 94070-4111

Redwood City, CA 94063

Walnut Creek, CA 94598

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(650) 232-9600

Reported:

FAX (650) 364-9233 FAX (925) 988-9673 FAX (916) 921-0100 FAX (707) 792-0342 FAX (650) 232-9612

Sequoia - Redwood City 680 Chesapeake Drive Redwood City, CA 94063 Project: Kayvan Kimyai
Project Number: 9903A94(Cambria)
Project Manager: Kayvan Kimyai

Sampled: Received:

3/17/99 3/30/99 4/5/99

Sample Description:

Laboratory Sample Number:

9903A94-11/HP-4-10'

	Batch	Date	Date	Specific Method/	Reporting			
Analyte	Number	Prepared	Analyzed	Surrogate Limits	Limit	Result	Units	Notes*
		Sague	ia Analystica	l - San Carlos				
Total Purgeable Hydrocarbons (C6-C1	2) RTFY on			1 - San Carios				
Purgeable Hydrocarbons as Gasoline	9040012	3/30/99	3/30/99		50.0	408	mg/kg	1
Benzene	"	11	11 11		0.250	2.22	"	•
Toluene	11	fl .	II.		0.250	2.57	#	•
Ethylbenzene	it	11	If		0.250	ND	tt.	
Xylenes (total)	*1	11	If		0.250	0.350	11	
Methyl tert-butyl ether	**	11	If		2.50	2.52	tt.	
Surrogate: a,a,a-Trifluorotoluene	"	л	rr	70.0-130		11.4	%	



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(650) 364-9600

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Sequoia - Redwood City 680 Chesapeake Drive Redwood City, CA 94063 Project: Kayvan Kimyai
Project Number: 9903A94(Cambria)
Project Manager: Kayvan Kimyai

Sampled: 3/17/99 Received: 3/30/99 Reported: 4/5/99

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

	Batch	Date	Date	Specific Method/	Reporting			
Analyte	Number	Prepared	Analyzed	Surrogate Limits	Limit	Result	Units	Notes*
		<u>Seque</u>	<u>ia Analytical</u>	- San Carlos				
Total Purgeable Hydrocarbons (C6-C1	2), BTEX an	d MTBE by	DHS LUFT					
Purgeable Hydrocarbons as Gasoline	9040012	3/30/99	3/30/99		1.00	1.91	mg/kg	1
Benzene	11	п	tt		0.00500	ND	н	
Toluene	17	п	ii.		0.00500	ND	"	
Ethylbenzene	rt	и	tr		0.00500	0.0151	**	
Xylenes (total)	Ħ	п	Ħ		0.00500	0.00510	н	
Methyl tert-butyl ether	tt	II	Ħ		0.0500	0.132	11	
Surrogate: a,a,a-Trifluorotoluene	"	11	"	70.0-130		93.5	%	



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Sequoia - Redwood City 680 Chesapeake Drive Redwood City, CA 94063 Project Number: 9903A94(Cambria)
Project Manager: Kayvan Kimyai

Sampled: 3/17/99 Received: 3/30/99 Reported: 4/5/99

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

L903297-13

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method/ Surrogate Limits	Reporting Limit	Result	Units	Notes*
		Post occ		Sarro Barro Dillino				1,000
		Seque	oia Analytical	- San Carlos				
Total Purgeable Hydrocarbons (C6-C)	(2), BTEX an	d MTBE by	DHS LUFT					
Purgeable Hydrocarbons as Gasoline	9040012	3/30/99	3/30/99		1.00	ND	mg/kg	
Benzene	*1	It	11		0.00500	ND	11	
Toluene	11	11	11		0.00500	ND	11	
Ethylbenzene	11	lf .	11		0.00500	ND	11	
Xylenes (total)	**	lt.	*1		0.00500	ND	ft.	
Methyl tert-butyl ether	**	II	47		0.0500	ND	†r	
Surrogate: a,a,a-Trifluorotoluene	<i>"</i>	"	"	70.0-130		86.0	%	

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

Project: Project Number:

Kayvan Kimyai 9903A94(Cambria) Project Manager: Kayvan Kimyai

3/17/99 Sampled: Received: 3/30/99 Reported: 4/5/99

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

	Batch	Date	Date	Specific Method/	Reporting			
Analyte	Number	Prepared	Analyzed	Surrogate Limits	Limit	Result	Units	Notes*
		Seque	oia Analytical	l - San Carlos				
Total Purgeable Hydrocarbons (C6-C	12), BTEX ar	d MTBE by	DHS LUFT	•				
Purgeable Hydrocarbons as Gasoline	9040012	3/30/99	3/30/99		1.00	ND	mg/kg	
Benzene	11	r+	**		0.00500	ND	*	
Toluene	н	Ħ	**		0.00500	ND	ri .	
Ethylbenzene)i	17	rŧ	•	0.00500	ND	**	
Xylenes (total)	H	н	n .		0.00500	ND	H	
Methyl tert-butyl ether	п	**	**		0.0500	ND	н	
Surrogate: a,a,a-Trifluorotoluene	ır	n .	n	70.0-130		82.0	%	



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FAX (650) 232-9612

3/17/99

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

Project: Project Number: Project Manager:

Kayvan Kimyai 9903A94(Cambria) Kayvan Kimyai

Sampled: Received: 3/30/99 4/5/99 Reported:

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

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method/ Surrogate Limits	Reporting Limit	Result	Units	Notes*
		Seque	oia Analytica	l - San Carlos				
Total Purgeable Hydrocarbons (C6-C	12), BTEX an	d MTBE by	DHS LUFT					
Purgeable Hydrocarbons as Gasoline	9040012	3/30/99	3/30/99		1.00	ND	mg/kg	
Benzene	**	91	II.		0.00500	0.00560	It.	
Toluene	Ħ	11	Ir		0.00500	ND	If	-
Ethylbenzene	ij	· ·	It		0.00500	ND	It.	
Xylenes (total)	н	Ħ	Ir		0.00500	ND	IT	
Methyl tert-butyl ether	**	"	п		0.0500	0.110	R	
Surrogate: a,a,a-Trifluorotoluene	"	n .		70.0-130		87.5	%	



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

Project: Kayvan Kimyai
Project Number: 9903A94(Cambria)
Project Manager: Kayvan Kimyai

Sampled: 3/17/99 Received: 3/30/99 Reported: 4/5/99

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

	Date	Spike	Sample	QC]	Reporting Limit	Recov.	RPD	RPD	
Analyte	Analyzed	Level	Result	Result	Units	Recov. Limits	%	Limit	%	Notes*
Batch: 9040012	Date Prepa	red: 3/30/9	19		Extract	ion Method: EP.	A 5030B	[P / T]		
Blank	9040012-B		_							
Purgeable Hydrocarbons as Gasoline	3/30/99			ND	mg/kg	1.00				
Benzene	11			ND	"	0.00500				
Toluene	11			ND	H	0.00500				
Ethylbenzene	11			ND	Ħ	0.00500			•	
Xylenes (total)	II.			ND	r i	0.00500				
Methyl tert-butyl ether	11			ND	17	0.0500				
Surrogate: a,a,a-Trifluorotoluene	"	0.200		0.185	и	70.0-130	92.5			
LCS	9040012-B	S1								
Benzene	3/30/99	0.200		0.211	mg/kg	70.0-130	105			
Toluene	11	0.200		0.218	11	70.0-130	109			
Ethylbenzene	и	0.200		0.227	TŤ	70.0-130	113			
Xylenes (total)	11	0.600		0.675	11	70.0-130	112			
Surrogate: a,a,a-Trifluorotoluene	"	0.200		0.210	"	70.0-130	105			
Matrix Spike	9040012-M	<u>S1</u> L9	003297-01							
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	Ħ	60.0-140	83.5			
Xylenes (total)	11	0.600	ND	0.499	n	60.0-140	83.2			
Surrogate: a,a,a-Trifluorotoluene	п	0.200		0.167	n	70.0-130	83.5			
Matrix Spike Dup	9040012-M	SD1 L	903297-01							
Benzene	3/30/99	0.200	ND	0.185	mg/kg	60.0-140	92.5	25.0	17.0	
Toluene	19	0.200	ND	0.189	"	60.0-140	94.5	25.0	17.2	
Ethylbenzene	"	0.200	ND	0.202	*1	60.0-140	101	25.0	19.0	
Xylenes (total)	#	0.600	ND	0.596	11	60.0-140	99.3	25.0	17.6	
Surrogate: a,a,a-Trifluorotoluene	n	0.200		0.185	и	70.0-130	92.5			



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Sequoia - Redwood City 680 Chesapeake Drive Redwood City, CA 94063 Project: Kayvan Kimyai
Project Number: 9903A94(Cambria)
Project Manager: Kayvan Kimyai

Sampled: 3/17/99 Received: 3/30/99 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

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