



PER BARNEY
DO NOT REMOVE,
RELATED TO
2301 SITE
EA d-24-04

PROTECTION February 26, 1998
55 MAR -3 PH 1: 11.

Mr. Larry Seto
Alameda County
Department of Environmental Health
1131 Harbor Bay Parkway, Room #250
Alameda, California 94502-6577

Re: **Subsurface Investigation**
Former Shell Service Station
2300 Santa Clara Avenue
Alameda, California
WIC #204-0072-0908
Cambria Project #240-0477-6

Dear Mr. Seto:

On behalf of Shell Oil Products Company (Shell), Cambria Environmental Technology, Inc. (Cambria) is pleased to present the results of the subsurface investigation conducted on January 26, 1998, at the site referenced above. The investigation objective was to assess whether the Shell station that formerly operated at this location is the source of hydrocarbons detected in Bill Chun Service Station well MW-8 immediately adjacent to the site. A site background, investigation procedures, investigation results, and conclusions are presented below.

SITE BACKGROUND

Site Description: The site is located on the southern corner of the intersection of Santa Clara Avenue and Oak Street in Alameda, California (Figure 1). The site is currently a section of a parking lot for Longs Drugs. It was an operating Shell Service Station from 1922 to 1950. Since that time it has been a paved parking lot. The Longs Drugs building is located immediately to the southeast of the site. Adjacent properties are both commercial and residential. The former Bill Chun Service Station is located to the northeast directly across Santa Clara Avenue. The groundwater flow direction in the area is north to northeast according to the Fugro West, Inc. (Fugro) January 1996 Results of Free Product Recovery, Additional Ground Water Assessment, and Quarterly Ground Water Monitoring Activities for the former Bill Chun Service Station.

Previous Investigations: Weiss Associates (WA) submitted a *Phase I Environmental Site Assessment Report* dated July 15, 1996. WA found that four underground storage tanks were installed at the site in August 1922. They were removed in January 1939 and replaced by five others. These five were subsequently removed in November 1950 when the station was abandoned.

CAMBRIA
ENVIRONMENTAL
TECHNOLOGY, INC.
1144 65TH STREET,
SUITE B
OAKLAND,
CA 94608
PH: (510) 420-0700
FAX: (510) 420-9170

Fugro performed the previous subsurface investigations at the former Bill Chun Service Station. Fugro has installed one vapor extraction well, thirteen soil borings, and eleven monitoring wells. Well MW-8, located at the northeastern edge of the former Shell site at Santa Clara Avenue, has contained detectable concentrations of benzene, toluene, ethylbenzene, xylenes, (BTEX) and petroleum hydrocarbons as gasoline (TPHg) and diesel (TPHd).

INVESTIGATION PROCEDURES

Cambria obtained an Agreement for Right of Entry between Shell and Longs Drugs. Cambria based the proposed boring locations on a historical review which provided the approximate location of station buildings and canopies circa 1950 (Figure 1). Cambria's standard field procedures for GeoProbe® borings are included as Attachment A.

During the boring installation, Cambria noted an Oil Storage Tank Fill pipe near the northwestern corner of the Longs Drugs building.

Soil Borings

- Personnel Present:** Geologists Christina Empedocles and Aubrey Cool directed the field sampling, working under the supervision of California Professional Engineer Owen Ratchye.
- Permit:** Cambria obtained Drilling Permit #98WRO31 for the eight borings from the Alameda County Public Works Agency. A copy of the permit is included as Attachment B.
- Drilling Company:** Gregg Drilling of Martinez, California (C-57 License #485-165).
- Drilling Date:** January 26, 1998.
- Drilling Methods:** GeoProbe® (hydraulic push with roto-hammer).
- Number of Borings:** Eight (GP-A to GP-H).
- Boring Depths:** 11.0 to 13.0 ft. Boring logs are included as Attachment C.
- Ground Water Depths:** Ground water was encountered in each of the soil borings at approximately 8.0 to 9.5 ft depth (Attachment C).

Sediment Lithology: The site subsurface consists of fine sands with silt of moderate to high estimated permeability to the total explored depth of 13 ft (Attachment C).

Chemical Analyses: Selected samples were analyzed for total lead using EPA Method 6010, TPHd and TPHg using modified EPA Method 8015, methyl tert-butyl ether (MTBE) and BTEX using EPA Method 8020. Water and soil samples collected from GP-C, GP-D, GP-E, and GP-H were also analyzed for volatile organic compounds (VOCs) by EPA Method 8240. Additional soil samples from GP-A, GP-C, GP-E, and GP-G were analyzed for TPHd and TPHg. Laboratory analytical results are summarized in Tables 1 and 2, and the analytical report is presented as Attachment D.

Soil Disposal: Approximately 10 gallons of soil cuttings were enveloped in plastic sheeting and left on site for future disposal.

Backfill Method: Boring locations were backfilled with cement grout and capped with asphalt patch for the top six inches to match the existing grade.

INVESTIGATION RESULTS

Chemicals of Concern (COCs) Distribution in Soil: No lead, TPHg, MTBE, BTEX, or VOCs were detected in soil from any of the borings. The only COC detected was low concentrations of TPHd. The highest TPHd concentration detected was only 6.9 mg/kg in sample GP-B-6.0'.

COCs Distribution in Ground Water: Lead and ^{TPHd}TPHg were detected in ground water from most of the boring locations, at maximum concentrations of 400 μ g/L and 1,500 μ g/L, respectively. ~~Toluene~~ at 0.58 μ g/L and acetone at 56 μ g/L were detected in ground water from GP-H. Acetone is a common laboratory contaminant and easily degradable. Therefore, it is unlikely that the acetone would be from a service station at the site 48 years ago. No MTBE, BTEX, or VOCs were detected in water at any other boring locations.

CONCLUSIONS

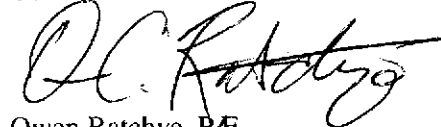
Bill Chun Service Station monitoring well MW-8 contained 7,400 $\mu\text{g/L}$ TPHg, 200 $\mu\text{g/L}$ benzene, 40 $\mu\text{g/L}$ toluene, 140 $\mu\text{g/L}$ ethylbenzene, and 190 $\mu\text{g/L}$ xylenes. However, no TPHg, benzene, ethylbenzene, or xylenes were detected in any of the ground water samples collected beneath the former Shell site. In addition, no TPHg, BTEX, or VOCs were detected in any of the soil samples. Therefore, it cannot be concluded that a Shell station that was removed 48 years ago is the source of the hydrocarbons detected in well MW-8.

CLOSING

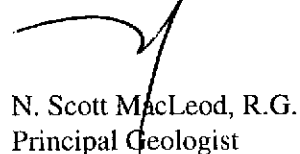
We appreciate the opportunity to work with you on this project. If you have any questions or require additional information, please contact us at (510) 420-0700.

Sincerely,

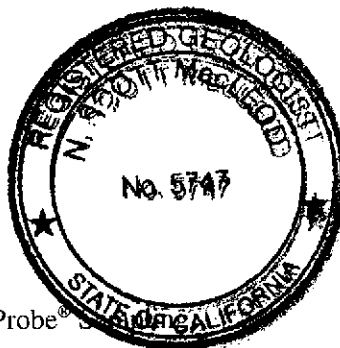
Cambria Environmental Technology, Inc.



Owen Ratchye, P.E.
Project Engineer

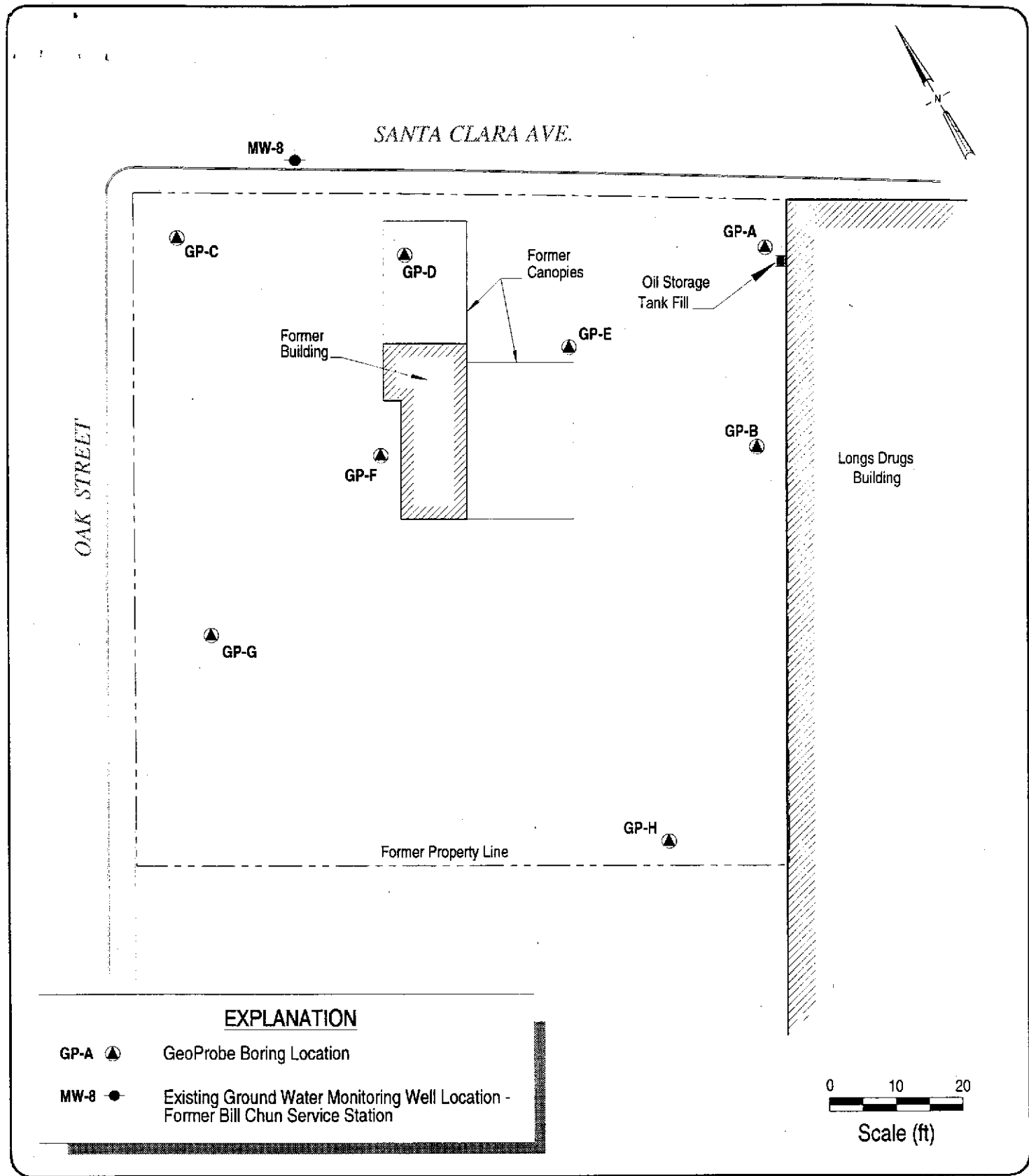


N. Scott MacLeod, R.G.
Principal Geologist





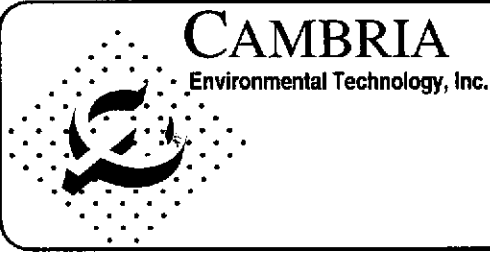
Attachments: A - Standard Field Procedures for GeoProbe®
B - Drilling Permit
C - Soil Boring Logs
D - Laboratory Analytical Results

cc: A. E. (Alex) Perez, Shell Oil Products Company, P.O. Box 8080, Martinez, California 94553
Rebecca Powlan, Long's Drug Stores California, Inc., P.O. Box 5222, Walnut Creek,
California 94596



EXPLANATION

- GP-A  GeoProbe Boring Location
- MW-8  Existing Ground Water Monitoring Well Location - Former Bill Chun Service Station



Former Shell Service Station
2300 Santa Clara Avenue
Alameda, California

F:\PROJECTS\HELLM\LA2300\FIGURES\GEO-BOR.DWG

Site Map With
GeoProbe Boring Locations

FIGURE

1

Table 1. Soil Analytical Data - Former Shell Service Station WIC# 204-0072-0908, 2300 Santa Clara Avenue, Alameda, California

Sample ID and Depth	Date Sampled	Lead	TPHd	TPHg	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes	VOCs
		←				(mg/kg)			→	(µg/kg)
GP-A-5.0'	1/26/98	<5.0	5.7 ^d	<1.0	<0.025	<0.0050	<0.0050	<0.0050	<0.0050	---
GP-A-9.0'	1/26/98	---	1.9	<1.0	---	---	---	---	---	---
GP-B-6.0'	1/26/98	<5.0	6.9	<1.0	<0.025	<0.0050	<0.0050	<0.0050	<0.0050	---
GP-C-6.0'	1/26/98	<0.25	2.1	<1.0	<0.025	<0.0050	<0.0050	<0.0050	<0.0050	ND
GP-C-10.0'	1/26/98	---	1.7	<1.0	---	---	---	---	---	---
GP-D-6.0'	1/26/98	<5.0	4.5	<1.0	<0.025	<0.0050	<0.0050	<0.0050	<0.0050	ND
GP-E-6.0' ^a	1/26/98	<5.0	1.0	<1.0	<0.025	<0.0050	<0.0050	<0.0050	<0.0050	ND
GP-E-10.0'	1/26/98	---	<1.0	<1.0	---	---	---	---	---	---
GP-F-5.0'	1/26/98	<5.0	2.1	<1.0	<0.025	<0.0050	<0.0050	<0.0050	<0.0050	ND
GP-G-7.0' ^b	1/26/98	<5.0	6.0	<1.0	<0.025	<0.0050	<0.0050	<0.0050	<0.0050	---
GP-H-6.0'	1/26/98	<5.0	3.1	<1.0	<0.025	<0.0050	<0.0050	<0.0050	<0.0050	ND
GP-H-9.5'	1/26/98	---	5.4, 1.6 ^c	<1.0	---	---	---	---	---	ND ^d

Abbreviations and Notes:

Lead by EPA Method 6010

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

TPHg = Total petroleum hydrocarbons as gasoline by modified EPA Method 8015

MTBE = Methyl tert-butyl ether by EPA Method 8020

Benzene, Toluene, Ethylbenzene, and Xylenes by EPA Method 8020

VOCs = Volatile organic compounds by EPA Method 8240

mg/kg = Milligrams per kilogram

µg/kg = Micrograms per kilogram

<n = Below detection limit of n mg/kg

--- = Not analyzed

ND = No VOCs were detected; see laboratory analytical report for specific detection limits

a = This sample ID is incorrectly reported as GPE-E-6.0' in the laboratory analytical report

b = This sample matrix is incorrectly reported as liquid in the laboratory analytical report

c = This sample was analyzed for TPHd twice; both results are presented

d = Sample analyzed out of hold time

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Table 2. Ground Water Analytical Data - Former Shell Service Station WIC# 204-0072-0908, 2300 Santa Clara Avenue, Alameda, California

Sample ID	Date Sampled	Lead	TPHd	TPHg	MTBE	Benzene (µg/L)	Toluene	Ethylbenzene	Xylenes	VOCs
GP-A	1/26/98	16	120	<50	<2.5	<0.50	<0.50	<0.50	<0.50	---
GP-B	1/26/98	120	50	<50	<2.5	<0.50	<0.50	<0.50	<0.50	---
GP-C	1/26/98	20	<50	<50	<2.5	<0.50	<0.50	<0.50	<0.50	ND
GP-D	1/26/98	15	220 ✓	<50	<2.5	<0.50	<0.50	<0.50	<0.50	ND
GP-E	1/26/98	400	320	<50	<2.5	<0.50	<0.50	<0.50	<0.50	ND
GP-F	1/26/98	44	150 ✓	<50	<2.5	<0.50	<0.50	<0.50	<0.50	ND
GP-G	1/26/98	20	<50	<50	<2.5	<0.50	<0.50	<0.50	<0.50	---
GP-H	1/26/98	40	1,500	<50	<2.5	<0.50	0.58	<0.50	<0.50	a

Abbreviations and Notes:

Lead by EPA Method 6010

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

TPHg = Total petroleum hydrocarbons as gasoline by modified EPA Method 8015

MTBE = Methyl tert-butyl ether by EPA Method 8020

Benzene, Toluene, Ethylbenzene, and Xylenes by EPA Method 8020

VOCs = Volatile organic compounds by EPA Method 8240

mg/L = Milligrams per liter

µg/L = Micrograms per liter

<n = Below detection limit of n µg/L

--- = Not analyzed

ND = No VOCs were detected; see laboratory analytical report for specific detection limits

a = No VOCs were detected with the exception of acetone at 56 µg/L.

STANDARD FIELD PROCEDURES FOR GEOPROBE® SAMPLING

This document describes Cambria Environmental Technology's standard field methods for GeoProbe® soil and ground water sampling. 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 separate-phase hydrocarbon saturation percentage,
- Observed odor and/or discoloration,
- Other significant observations (i.e., cementation, presence of marker horizons, mineralogy), and
- Estimated permeability.

Soil Sampling

GeoProbe® soil samples are collected from borings driven using hydraulic push technologies. A minimum of one and one half ft of the soil column is collected for every five ft of drilled depth. Additional soil samples can be collected near the water table and at lithologic changes. Samples are collected using samplers lined with polyethylene or brass tubes driven into undisturbed sediments at the bottom of the borehole. The ground surface immediately adjacent to the boring is used as a datum to measure sample depth. The horizontal location of each boring is measured in the field relative to a permanent on-site reference using a measuring wheel or tape measure.

Drilling and sampling equipment is steam-cleaned or washed 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

After a soil sample has been collected, soil from the remaining tubing is placed inside a sealed plastic bag and set aside to allow hydrocarbons to volatilize from the soil. After ten to fifteen minutes, a portable GasTech® or photoionization detector measures volatile hydrocarbon vapor concentrations in the bag's headspace, extracting the vapor through a slit in the plastic bag. The measurements are used along with the field observations, odors, stratigraphy and ground water depth to select soil samples for analysis.

Grab Ground Water Sampling

Ground water samples are collected from the open borehole using bailers, advancing disposable Tygon® tubing into the borehole and extracting ground water using a diaphragm pump, or using a hydro-punch style sampler with a bailer or tubing. 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 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 quality assurance/quality control (QA/QC) blanks contain the suspected field contaminants. An equipment blank may also be analyzed if non-dedicated sampling equipment is used.

Grouting

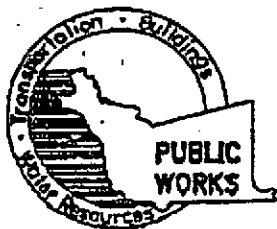
If the borings are not completed as wells, the borings are filled to the ground surface with cement grout poured or pumped through a tremie pipe.

GATEMPLATE\SOPS\GEOPROBE.WPD

CAMBRIA

ATTACHMENT B

Drilling Permit



ALAMEDA COUNTY PUBLIC WORKS AGENCY

WATER RESOURCES SECTION

951 TURNER COURT, SUITE 300, HAYWARD, CA 94545-2651
PHONE (510) 670-5575 ANDREAS GODFREY FAX (510) 670-5262
(510) 670-5248 ALVIN KAN

DRILLING PERMIT APPLICATION

FOR APPLICANT TO COMPLETE

LOCATION OF PROJECT 2500 SANTA CLARA
ALAMEDA, CA

California Coordinates Source _____ ft. Accuracy ± _____ ft.
GCN _____ ft. CCE _____ ft.
APN _____

CLIENT Name SHELL OIL PRODUCTS, CO ATTN: ALEX (A.G.) PEREZ
Address PO Box 8000 Phone 888-5017
City MARTINEZ, CA Zip 94553

APPLICANT Name ACORN - CAMBRIA ENVIRON -
MENTAL, TECH INC Fax 420-9170
Address 1144 65th ST. SUITE C Phone 420-8800
City OAKLAND Zip 94603

TYPE OF PROJECT

Well Construction	<input type="checkbox"/>	Geotechnical Investigation	<input type="checkbox"/>
Cathodic Protection	<input type="checkbox"/>	General	<input type="checkbox"/>
Water Supply	<input type="checkbox"/>	Contamination	<input checked="" type="checkbox"/>
Monitoring	<input type="checkbox"/>	Well Destruction	<input type="checkbox"/>

PROPOSED WATER SUPPLY WELL USE

New Domestic	<input type="checkbox"/>	Replacement Domestic	<input type="checkbox"/>
Municipal	<input type="checkbox"/>	Irrigation	<input type="checkbox"/>
Industrial	<input type="checkbox"/>	Other <u>GEOPROBE</u>	<input checked="" type="checkbox"/>

DRILLING METHOD:

Mud Rotary	<input type="checkbox"/>	Air Rotary	<input type="checkbox"/>	Auger	<input type="checkbox"/>
Cable	<input type="checkbox"/>	Other	<input checked="" type="checkbox"/>	<u>GEOPROBE</u>	

DRILLER'S LICENSE NO. C07-485165

WELL PROJECTS

Drill Hole Diameter	<u>4</u> in.	Maximum	
Casing Diameter	<u>2</u> in.	Depth	<u>100</u> ft.
Surface Seal Depth	<u>4</u> ft.	Number	<u>0</u>

GEOTECHNICAL PROJECTS

Number of Borings	<u>6-8</u>	Maximum	
Hole Diameter	<u>2</u> in.	Depth	<u>20</u> ft.

ESTIMATED STARTING DATE 1/26/98
ESTIMATED COMPLETION DATE 1/26/98

I hereby agree to comply with all requirements of this permit and Alameda County Ordinance No. 79-98.

APPLICANT'S SIGNATURE [Signature] DATE 1/21/98

FOR OFFICE USE

PERMIT NUMBER 98WR031
WELL NUMBER _____
APN _____

PERMIT CONDITIONS

Circled Permit Requirements Apply

- (A) GENERAL
 1. A permit application should be submitted so as to arrive at the ACPWA office five days prior to proposed starting date.
 2. Submit to ACPWA within 60 days after completion of permitted work the original Department of Water Resources Water Well Drillers Report or equivalent for well projects, or drilling logs and location sketch for geotechnical projects.
 3. Permit is void if project not begun within 90 days of approval date.
- B. WATER SUPPLY WELLS
 1. Minimum surface seal thickness is two inches of cement grout placed by tremie.
 2. Minimum seal depth is 30 feet for municipal and industrial wells or 20 feet for domestic and irrigation wells unless a lesser depth is specially approved.
- C. GROUNDWATER MONITORING WELLS INCLUDING PIEZOMETERS
 1. Minimum surface seal thickness is two inches of cement grout placed by tremie.
 2. Minimum seal depth for monitoring wells is the maximum depth practicable or 20 feet.
- (D) GEOTECHNICAL

Backfill bore hole with compacted cuttings or heavy bentonite and upper two feet with compacted material. in areas of known or suspected contamination, tremied cement grout shall be used in place of compacted cuttings.
- E. CATHODIC

Fill hole above anode zone with concrete placed by tremie.
- F. WELL DESTRUCTION

See attached.
- G. SPECIAL CONDITIONS

APPROVED [Signature] DATE _____

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ATTACHMENT C

Soil Boring Logs

BORING LOG

Boring ID **GP-A**

Client: **Shell Oil Products Company**

Location **2300 Santa Clara Avenue, Alameda**

Project No: **240-0477**

Phase

Task **5**

Surface Elev. **NA ft.**

Page **1** of **1**

Depth (feet)	Blow Count	Sample Interval	Lithologic Description	TPHg (ppm)	Graphic Log	Boring Completion Graphics	Depth (feet)	Additional Comments
0	Ground Surface		<u>Asphalt</u>				0	
			<u>Sandy GRAVEL with cobbles</u> ; (GP); grey; loose; dry; 20% fine sand, 80% gravel; high estimated permeability (fill). concrete chunk @ 6"					
5			<u>SAND</u> ; (SP); brown, loose; damp; 5% silt, 95% fine sand; no plasticity; moderate to high estimated permeability.				5	
			wet; 10% silt, 90% fine sand.					Water encountered @ 9 ft.
10							10	Bottom of boring @ 11 ft.

Driller **Gregg**

Drilling Started **1/26/98**

Notes: **See site map. 2"**

Logged By **Christina Empedocles**

Drilling Completed **1/26/98**

diameter Geoprobe boring.

Water-Bearing Zones **NA**

Grout Type **Portland Type I/II**

BOR 24477 2/18/98

BORING LOG

Client: **Shell Oil Products Company**

Project No: **240-0477**

Phase

Task **5**


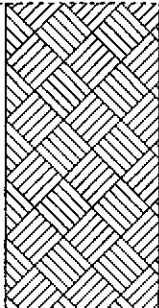
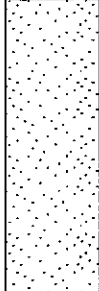
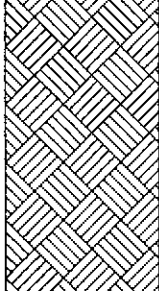
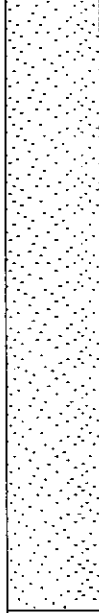
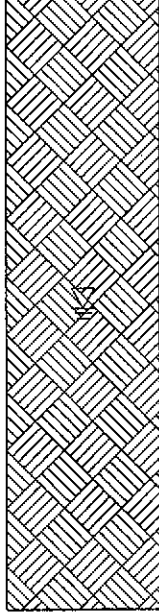
Boring ID

GP-B

Location **2300 Santa Clara Avenue, Alameda**

Surface Elev. **NA** ft,

Page **1** of **1**

Depth (feet)	Blow Count	Sample Interval	Lithologic Description	TPHg (ppm)	Graphic Log	Boring Completion Graphics	Depth (feet)	Additional Comments
0	Ground Surface		Asphalt				0	
			Sandy GRAVEL with cobbles: (GP); grey; loose; dry; 20% fine sand, 80% gravel; high estimated permeability (fill).					
5							5	
			SAND: (SP); brown; loose; moist; < 5% silt, > 95% fine sand; no plasticity; moderate to high estimated permeability.					
10			wet; 5% silt, 95% fine sand.				10	Water encountered @ 9 ft.
								Bottom of boring @ 12 ft.

Driller Gregg	Drilling Started 1/26/98	Notes: See site map. 2"
Logged By Christina Epedocles	Drilling Completed 1/26/98	diameter Geoprobe boring.
Water-Bearing Zones NA	Grout Type Portland Type I/II	

BOR 24477 2/18/98

BORING LOG

Boring ID **GP-C**

Client: **Shell Oil Products Company**

Location **2300 Santa Clara Avenue, Alameda**


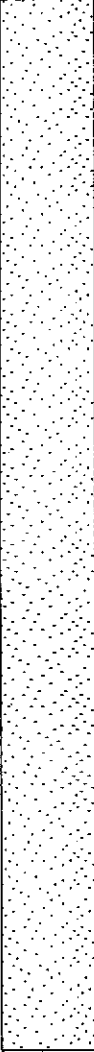

Project No: **240-0477**

Phase

Task **5**

Surface Elev. **NA ft.**

Page **1** of **1**

Depth (feet)	Blow Count	Sample Interval	Lithologic Description	TPHg (ppm)	Graphic Log	Boring Completion Graphics	Depth (feet)	Additional Comments
0	Ground Surface		<u>Asphalt</u>				0	
			<u>Sandy GRAVEL with cobbles</u> ; (GP); grey; loose; dry; 20% fine sand, 80% gravel; high estimated permeability (fill).					
5							5	
			<u>SAND</u> ; (SP); brown; loose; moist; 5-10% silt, 90-95% fine sand; no plasticity; moderate to high estimated permeability.					
10			wet.				10	Water encountered @ 9 ft.
								Bottom of boring @ 13 ft.

Driller **Gregg**
 Logged By **Christina Empedocles**
 Water-Bearing Zones **NA**

Drilling Started **1/26/98**
 Drilling Completed **1/26/98**
 Grout Type **Portland Type I/II**

Notes: **See site map. 2" diameter Geoprobe boring.**

BORING LOG

Boring ID **GP-D**

Client: **Shell Oil Products Company**

Location **2300 Santa Clara Avenue, Alameda**


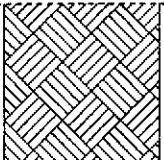
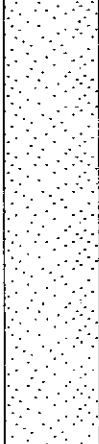
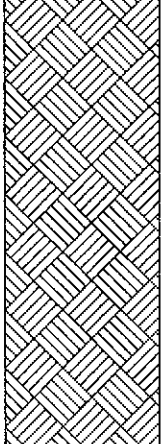
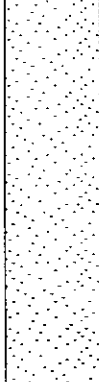
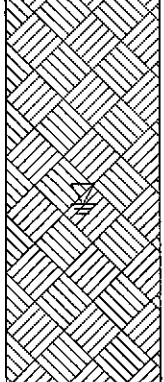
Project No: **240-0477**

Phase

Task **5**

Surface Elev. **NA ft.**

Page **1** of **1**

Depth (feet)	Blow Count	Sample Interval	Lithologic Description	TPHg (ppm)	Graphic Log	Boring Completion Graphics	Depth (feet)	Additional Comments
0							0	
			<u>Asphalt</u>					
			<u>Sandy GRAVEL with cobbles:</u> (GP); grey; 20% fine sand, 80% gravel; high estimated permeability (fill).					
5							5	
			<u>SAND:</u> (SP); brown; loose; moist; 5% silt, 95% fine sand; no plasticity; moderate to high estimated permeability.					
								Water encountered @ 8 ft.
10			wet; 10% silt, 90% fine sand.				10	
								Bottom of boring @ 13 ft.

Driller **Gregg**

Drilling Started **1/26/98**

Notes: **See site map. 2"**

Logged By **Christina Empedocles**

Drilling Completed **1/26/98**

diameter Geoprobe boring.

Water-Bearing Zones **NA**

Grout Type **Portland Type I/II**

BORING LOG

Client: **Shell Oil Products Company**

Project No: **240-0477**

Phase


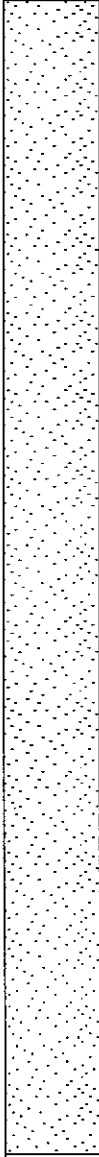

Task **5**

Boring ID **GP-E**

Location **2300 Santa Clara Avenue, Alameda**

Surface Elev. **NA ft.**

Page **1** of **1**

Depth (feet)	Blow Count	Sample Interval	Lithologic Description	TPHg (ppm)	Graphic Log	Boring Completion Graphics	Depth (feet)	Additional Comments
0			Ground Surface				0	
			<u>Asphalt</u>					
			<u>Sandy GRAVEL with cobbles</u> ; (GP); grey; loose; dry; 20% fine sand, 80% gravel; high estimated permeability (fill).					
5							5	
			<u>SAND</u> ; (SP); brown; loose; damp; <5% silt, >95% fine sand; no plasticity; moderate to high estimated permeability.					
10			wet; 5% silt, 95% fine sand.				10	Water encountered @ 9 ft.
								Bottom of boring @ 13 ft.

Driller **Gregg**

Drilling Started **1/26/98**

Notes: **See site map. 2"**

Logged By **Christina Empedocles**

Drilling Completed **1/26/98**

diameter Geoprobe boring.

Water-Bearing Zones **NA**

Grout Type **Portland Type I/II**

BORING LOG

Client: **Shell Oil Products Company**

Project No: **240-0477**

Phase




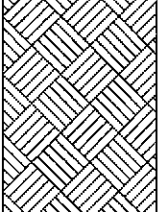
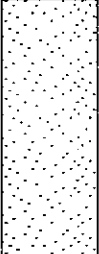
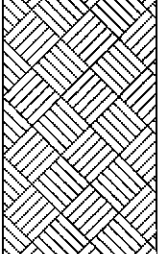
Task **5**

Boring ID **GP-F**

Location **2300 Santa Clara Avenue, Alameda**

Surface Elev. **NA ft.**

Page **1** of **1**

Depth (feet)	Blow Count	Sample Interval	Lithologic Description	TPHg (ppm)	Graphic Log	Boring Completion Graphics	Depth (feet)	Additional Comments
0	Ground Surface		Asphalt				0	
			Sandy GRAVEL with cobbles; (GP); grey; loose; dry; 20% fine sand, 80% gravel; high estimated permeability (fill).					
5			SAND; (SP); brown; loose; moist; 5% silt, 95% fine sand; no plasticity; moderate to high estimated permeability.				5	
10			wet.				10	Water encountered @ 9 ft.
								Bottom of boring @ 13 ft.

Driller **Gregg**
 Logged By **Christina Empedocles**
 Water-Bearing Zones **NA**

Drilling Started **1/26/98**
 Drilling Completed **1/26/98**
 Grout Type **Portland Type I/II**

Notes: **See site map. 2" diameter Geoprobe boring.**

BORING LOG

Client: **Shell Oil Products Company**

Project No: **240-0477**

Phase

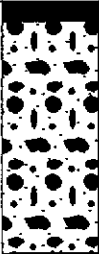
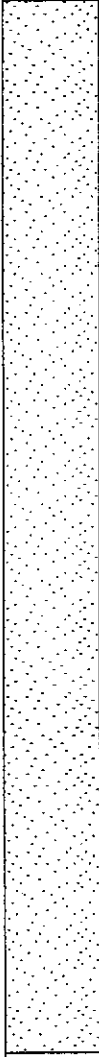
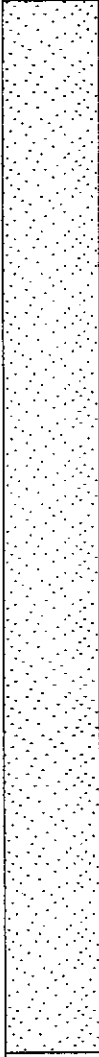
Task **5**

Boring ID **GP-G**

Location **2300 Santa Clara Avenue, Alameda**

Surface Elev. **NA ft.**

Page **1** of **1**

Depth (feet)	Blow Count	Sample Interval	Lithologic Description	TPHg (ppm)	Graphic Log	Boring Completion Graphics	Depth (feet)	Additional Comments
0							0	
			Asphalt					
			Sandy GRAVEL with cobbles; (GP); grey; loose; dry; 20% fine sand, 80% gravel; high estimated permeability (fill).					
5							5	
			SAND; (SP); brown; loose; moist; 5% silt, 95% fine sand; no plasticity; moderate to high estimated permeability.					
			wet; 10% silt, 90% fine sand.					
10							10	Water encountered @ 9.5 ft.
								Bottom of boring @ 13 ft.

Driller **Gregg**

Drilling Started **1/26/98**

Notes: **See site map. 2"**

Logged By **Christina Empedocles**

Drilling Completed **1/26/98**

diameter Geoprobe boring.

Water-Bearing Zones **NA**

Grout Type **Portland Type I/II**

BORING LOG

Client: **Shell Oil Products Company**

Project No: **240-0477**

Phase

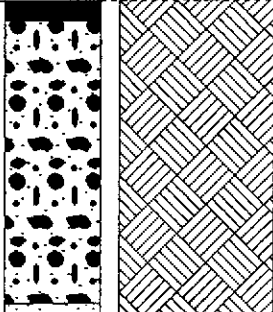
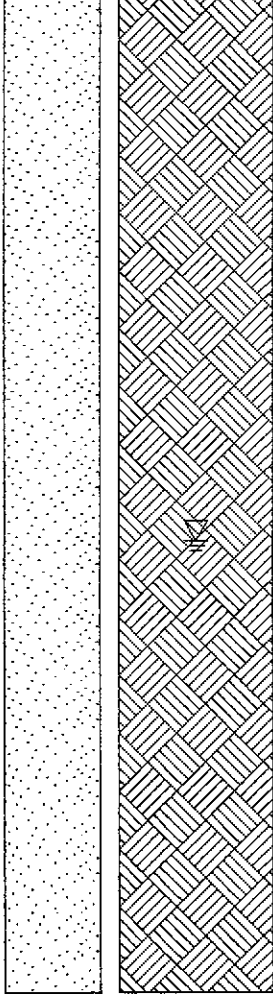
Task **5**

Boring ID **GP-H**

Location **2300 Santa Clara Avenue, Alameda**

Surface Elev. **NA ft.**

Page **1** of **1**

Depth (feet)	Blow Count	Sample Interval	Lithologic Description	TPHg (ppm)	Graphic Log	Boring Completion Graphics	Depth (feet)	Additional Comments
0	Ground Surface		<u>Asphalt</u>				0	
			<u>Sandy GRAVEL with cobbles:</u> (GP); grey; loose; dry; 20% fine sand, 80% gravel; high estimated permeability (fill).					
5							5	
			<u>SAND:</u> (SP); brown; medium dense; wet; 10% silt, 90% fine sand; no plasticity; moderate to high estimated permeability.					
10							10	Water encountered @ 8.5 ft.
								Bottom of boring @ 13 ft.

Driller **Gregg**
 Logged By **Christina Empedocles**
 Water-Bearing Zones **NA**

Drilling Started **1/26/98**
 Drilling Completed **1/26/98**
 Grout Type **Portland Type I/II**

Notes: **See site map. 2" diameter Geoprobe boring.**

ATTACHMENT D

Laboratory Analytical Results



Sequoia Analytical

680 Chesapeake Drive
404 N. Wiget Lane
819 Striker Avenue, Suite 8

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

(650) 364-9600
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(916) 921-9600

FAX (650) 364-9233
FAX (510) 988-9673
FAX (916) 921-0100

Cambria
1144 65th St. Suite C
Oakland, CA 94608
Attention: Aubrey Cool

Project: Shell 2300 Santa Clara

Enclosed are the results from samples received at Sequoia Analytical on January 28, 1998.
The requested analyses are listed below:

<u>SAMPLE #</u>	<u>SAMPLE DESCRIPTION</u>	<u>DATE COLLECTED</u>	<u>TEST METHOD</u>
9801F42 -01	SOLID, GP-A 5.0'	01/26/98	Lead
9801F42 -01	SOLID, GP-A 5.0'	01/26/98	TPGBMS Purgeable TPH/BTEX
9801F42 -02	LIQUID, GP-A	01/26/98	Lead
9801F42 -02	LIQUID, GP-A	01/26/98	TPGBMW Purgeable TPH/BTEX
9801F42 -03	SOLID, GP-B 6.0'	01/26/98	Lead
9801F42 -03	SOLID, GP-B 6.0'	01/26/98	TPGBMS Purgeable TPH/BTEX
9801F42 -04	LIQUID, GP-B	01/26/98	Lead
9801F42 -04	LIQUID, GP-B	01/26/98	TPGBMW Purgeable TPH/BTEX
9801F42 -05	SOLID, GP-C 6.0'	01/26/98	8240 Volatile Organic Co
9801F42 -05	SOLID, GP-C 6.0'	01/26/98	Lead
9801F42 -05	SOLID, GP-C 6.0'	01/26/98	TPGBMS Purgeable TPH/BTEX
9801F42 -05	SOLID, GP-C 6.0'	01/26/98	TPHD_S Extractable TPH
9801F42 -06	LIQUID, GP-C	01/26/98	Lead
9801F42 -06	LIQUID, GP-C	01/26/98	TPGBMW Purgeable TPH/BTEX
9801F42 -06	LIQUID, GP-C	01/26/98	8240 Volatile Organic Co
9801F42 -07	SOLID, GP-D 6.0'	01/26/98	8240 Volatile Organic Co
9801F42 -07	SOLID, GP-D 6.0'	01/26/98	Lead
9801F42 -07	SOLID, GP-D 6.0'	01/26/98	TPGBMS Purgeable TPH/BTEX
9801F42 -07	SOLID, GP-D 6.0'	01/26/98	TPHD_S Extractable TPH
9801F42 -08	LIQUID, GP-D	01/26/98	8240 Volatile Organic Co
9801F42 -08	LIQUID, GP-D	01/26/98	TPHD_W Extractable TPH

SEQUOIA ANALYTICAL





Sequoia Analytical

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(510) 988-9600
(916) 921-9600

FAX (650) 364-9233
FAX (510) 988-9673
FAX (916) 921-0100

<u>AMPLE #</u>	<u>SAMPLE DESCRIPTION</u>	<u>DATE COLLECTED</u>	<u>TEST METHOD</u>
301F42 -08	LIQUID, GP-D	01/26/98	Lead
301F42 -08	LIQUID, GP-D	01/26/98	TPGBMW Purgeable TPH/BTEX
301F42 -09	SOLID, GPE-E 6.0'	01/26/98	8240 Volatile Organic Co
301F42 -09	SOLID, GPE-E 6.0'	01/26/98	Lead
301F42 -09	SOLID, GPE-E 6.0'	01/26/98	TPGBMS Purgeable TPH/BTEX
301F42 -09	SOLID, GPE-E 6.0'	01/26/98	TPHD_S Extractable TPH
301F42 -10	LIQUID, GP-E	01/26/98	8240 Volatile Organic Co
301F42 -10	LIQUID, GP-E	01/26/98	TPHD_W Extractable TPH
301F42 -10	LIQUID, GP-E	01/26/98	Lead
301F42 -10	LIQUID, GP-E	01/26/98	TPGBMW Purgeable TPH/BTEX
301F42 -11	LIQUID, GP-H	01/26/98	8240 Volatile Organic Co
301F42 -11	LIQUID, GP-H	01/26/98	TPHD_W Extractable TPH
301F42 -11	LIQUID, GP-H	01/26/98	Lead
301F42 -11	LIQUID, GP-H	01/26/98	TPGBMW Purgeable TPH/BTEX
301F42 -12	SOLID, GP-F 5.0'	01/26/98	8240 Volatile Organic Co
301F42 -12	SOLID, GP-F 5.0'	01/26/98	Lead
301F42 -12	SOLID, GP-F 5.0'	01/26/98	TPGBMS Purgeable TPH/BTEX
301F42 -12	SOLID, GP-F 5.0'	01/26/98	TPHD_S Extractable TPH

ease contact me if you have any questions. In the meantime, thank you for the opportunity to work with you on
is project.

ery truly yours,

SEQUOIA ANALYTICAL

roject Manager





Sequoia Analytical

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FAX (916) 921-0100

Cambria
1144 65th St. Suite C
Oakland, CA 94608
Attention: Aubrey Cool

Project: Shell 2300 Santa Clara

Enclosed are the results from samples received at Sequoia Analytical on January 28, 1998.
The requested analyses are listed below:

<u>SAMPLE #</u>	<u>SAMPLE DESCRIPTION</u>	<u>DATE COLLECTED</u>	<u>TEST METHOD</u>
9801F43 -13	LIQUID, GP-F	01/26/98	8240 Volatile Organic Co
9801F43 -13	LIQUID, GP-F	01/26/98	TPHD_W Extractable TPH
9801F43 -13	LIQUID, GP-F	01/26/98	Lead
9801F43 -13	LIQUID, GP-F	01/26/98	TPGBMW Purgeable TPH/BTEX
9801F43 -14	LIQUID, GP-G	01/26/98	Lead
9801F43 -14	LIQUID, GP-G	01/26/98	TPGBMW Purgeable TPH/BTEX
9801F43 -15	SOLID, GP-G 7.0'	01/26/98	Lead
9801F43 -15	SOLID, GP-G 7.0'	01/26/98	TPGBMS Purgeable TPH/BTEX
9801F43 -16	SOLID, GP-H 6.0'	01/26/98	Lead
9801F43 -16	SOLID, GP-H 6.0'	01/26/98	TPGBMS Purgeable TPH/BTEX

Please contact me if you have any questions. In the meantime, thank you for the opportunity to work with you on this project.

Very truly yours,

SEQUOIA ANALYTICAL

Project Manager





Cambria 144 65th St. Suite C Oakland, CA 94608 Attention: Aubrey Cool	Client Proj. ID: Shell 2300 Santa Clara Lab Proj. ID: 9801F42	Sampled: 01/26/98 Received: 01/28/98 Analyzed: see below Reported: 02/04/98
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LABORATORY ANALYSIS

Analyte	Units	Date Analyzed	Detection Limit	Sample Results
Lab No: 9801F42-01 Sample Desc: SOLID,GP-A 5.0' Lead	mg/Kg	01/30/98	5.0	N.D.
Lab No: 9801F42-02 Sample Desc: LIQUID,GP-A Lead	mg/L	02/02/98	0.0050	0.016
Lab No: 9801F42-03 Sample Desc: SOLID,GP-B 6.0' Lead	mg/Kg	01/30/98	5.0	N.D.
Lab No: 9801F42-04 Sample Desc: LIQUID,GP-B Lead	mg/L	02/02/98	0.010	.12
Lab No: 9801F42-05 Sample Desc: SOLID,GP-C 6.0' Lead	mg/Kg	01/30/98	0.25	N.D.
Lab No: 9801F42-06 Sample Desc: LIQUID,GP-C Lead	mg/L	02/02/98	0.0050	0.020
Lab No: 9801F42-07 Sample Desc: SOLID,GP-D 6.0' Lead	mg/Kg	01/30/98	5.0	N.D.

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

SEQUOIA ANALYTICAL - ELAP #1210

[Signature]
Richard Herling
Project Manager





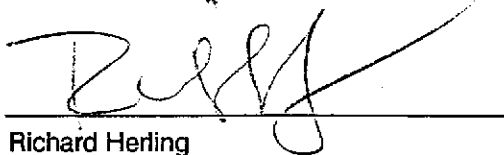
Cambria 1144 65th St. Suite C Oakland, CA 94608	Client Proj. ID: Shell 2300 Santa Clara Lab Proj. ID: 9801F42	Sampled: 01/26/98 Received: 01/28/98 Analyzed: see below Reported: 02/04/98
Attention: Aubrey Cool		

LABORATORY ANALYSIS

Analyte	Units	Date Analyzed	Detection Limit	Sample Results
Lab No: 9801F42-08 Sample Desc: LIQUID,GP-D				
Lead	mg/L	02/02/98	0.0050	0.015
Lab No: 9801F42-09 Sample Desc: SOLID,GPE-E 6.0'				
Lead	mg/Kg	01/30/98	5.0	N.D.
Lab No: 9801F42-10 Sample Desc: LIQUID,GP-E				
Lead	mg/L	02/02/98	0.050	0.40
Lab No: 9801F42-11 Sample Desc: LIQUID,GP-H				
Lead	mg/L	02/02/98	0.0050	0.040
Lab No: 9801F42-12 Sample Desc: SOLID,GP-F 5.0'				
Lead	mg/Kg	01/30/98	5.0	N.D.

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

SEQUOIA ANALYTICAL - ELAP #1210


Richard Herling
Project Manager



Ambria 144 65th St. Suite C Oakland, CA 94608 Attention: Aubrey Cool Batch Number: GC012998BTEXEXA Instrument ID: GCHP22	Client Proj. ID: Shell 2300 Santa Clara Sample Descript: GP-A 5.0' Matrix: SOLID Analysis Method: 8015Mod/8020 Lab Number: 9801F42-01	Sampled: 01/26/98 Received: 01/28/98 Extracted: 01/29/98 Analyzed: 01/30/98 Reported: 02/04/98
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Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	1.0	N.D.
Diethyl t-Butyl Ether	0.025	N.D.
Benzene	0.0050	N.D.
Toluene	0.0050	N.D.
Ethyl Benzene	0.0050	N.D.
Aromatics (Total)	0.0050	N.D.
Chromatogram Pattern:		
Surrogates	Control Limits %	% Recovery
1,1-Difluorotoluene	70	130
Bromofluorobenzene	60	140
		75
		89

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

SEQUOIA ANALYTICAL - ELAP #1210

[Signature]
Richard Herling
Project Manager





Cambria 1144 65th St. Suite C Oakland, CA 94608	Client Proj. ID: Shell 2300 Santa Clara Sample Descript: GP-A Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9801F42-02	Sampled: 01/26/98 Received: 01/28/98 Analyzed: 01/29/98 Reported: 02/04/98
Attention: Aubrey Cool		

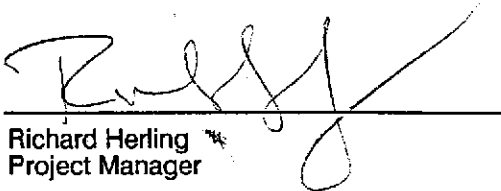
QC Batch Number: GC012998BTEX03A
Instrument ID: GCHP3

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	93

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

SEQUOIA ANALYTICAL - ELAP #1210


Richard Herling
Project Manager





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

Client Proj. ID: Shell 2300 Santa Clara
Sample Descript: GP-B 6.0
Matrix: SOLID
Analysis Method: 8015Mod/8020
Lab Number: 9801F42-03

Sampled: 01/26/98
Received: 01/28/98
Extracted: 01/29/98
Analyzed: 01/30/98
Reported: 02/04/98

Attention: Aubrey Cool

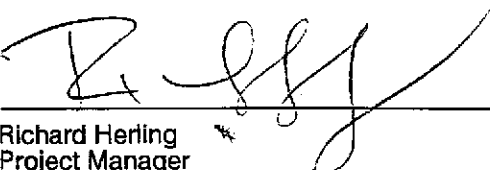
GC Batch Number: GC012998BTEXEXA
Instrument ID: GCHP22

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	1.0	N.D.
Methyl t-Butyl Ether	0.025	N.D.
Benzene	0.0050	N.D.
Toluene	0.0050	N.D.
Ethyl Benzene	0.0050	N.D.
Xylenes (Total)	0.0050	N.D.
Chromatogram Pattern:		
Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70	130
4-Bromofluorobenzene	60	140

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

SEQUOIA ANALYTICAL - ELAP #1210


Richard Herling
Project Manager





Cambria 1144 65th St. Suite C Oakland, CA 94608	Client Proj. ID: Shell 2300 Santa Clara Sample Descript: GP-B Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9801F42-04	Sampled: 01/26/98 Received: 01/28/98 Analyzed: 01/29/98 Reported: 02/04/98
Attention: Aubrey Cool		

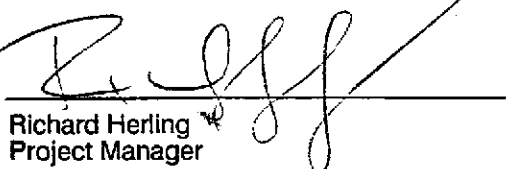
QC Batch Number: GC012998BTEX02A
Instrument ID: GCHP2

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	95

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

SEQUOIA ANALYTICAL - ELAP #1210


Richard Herling
Project Manager





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

Client Proj. ID: Shell 2300 Santa Clara
Sample Descript: GP-C 6.0'
Matrix: SOLID
Analysis Method: EPA 8240
Lab Number: 9801F42-05

Sampled: 01/26/98
Received: 01/28/98
Extracted: 01/30/98
Analyzed: 01/30/98
Reported: 02/04/98

Attention: Aubrey Cool

IC Batch Number: MS0130988240EXA
Instrument ID: F3

Volatile Organics (EPA 8240)

Analyte	Detection Limit ug/Kg	Sample Results ug/Kg
Acetone	500	N.D.
Benzene	100	N.D.
Bromodichloromethane	100	N.D.
Bromoform	100	N.D.
Bromomethane	100	N.D.
2-Butanone	500	N.D.
Carbon disulfide	100	N.D.
Carbon tetrachloride	100	N.D.
Chlorobenzene	100	N.D.
Chloroethane	100	N.D.
2-Chloroethyl vinyl ether	500	N.D.
Chloroform	100	N.D.
Chloromethane	100	N.D.
Dibromochloromethane	100	N.D.
1,1-Dichloroethane	100	N.D.
1,2-Dichloroethane	100	N.D.
1,1-Dichloroethene	100	N.D.
cis-1,2-Dichloroethene	100	N.D.
trans-1,2-Dichloroethene	100	N.D.
1,2-Dichloropropane	100	N.D.
cis-1,3-Dichloropropene	100	N.D.
trans-1,3-Dichloropropene	100	N.D.
Ethylbenzene	100	N.D.
2-Hexanone	500	N.D.
Methylene chloride	250	N.D.
4-Methyl-2-pentanone	500	N.D.
Styrene	100	N.D.
1,1,2,2-Tetrachloroethane	100	N.D.
Tetrachloroethene	100	N.D.
Toluene	100	N.D.
1,1,1-Trichloroethane	100	N.D.
1,1,2-Trichloroethane	100	N.D.
Trichloroethene	100	N.D.
Trichlorofluoromethane	100	N.D.
Vinyl acetate	250	N.D.
Vinyl chloride	100	N.D.
Total Xylenes	100	N.D.





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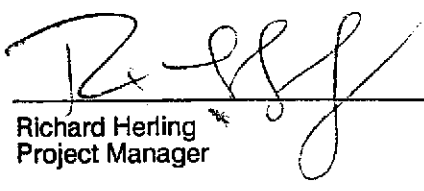
Cambria 1144 65th St. Suite C Oakland, CA 94608	Client Proj. ID: Shell 2300 Santa Clara Sample Descript: GP-C 6.0' Matrix: SOLID Analysis Method: EPA 8240 Lab Number: 9801F42-05	Sampled: 01/26/98 Received: 01/28/98 Extracted: 01/30/98 Analyzed: 01/30/98 Reported: 02/04/98
---	---	--

QC Batch Number: MS0130988240EXA
Instrument ID: F3

Analyte	Detection Limit ug/Kg	Sample Results ug/Kg
Surrogates	Control Limits %	% Recovery
1,2-Dichloroethane-d4	70	121
Toluene-d8	81	117
4-Bromofluorobenzene	74	121

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

SEQUOIA ANALYTICAL - ELAP #1210


Richard Herling
Project Manager



ambria 144 65th St. Suite C Oakland, CA 94608	Client Proj. ID: Shell 2300 Santa Clara Sample Descript: GP-C 6.0' Matrix: SOLID Analysis Method: 8015Mod/8020 Lab Number: 9801F42-05	Sampled: 01/26/98 Received: 01/28/98 Extracted: 01/29/98 Analyzed: 01/30/98 Reported: 02/04/98
Attention: Aubrey Cool		

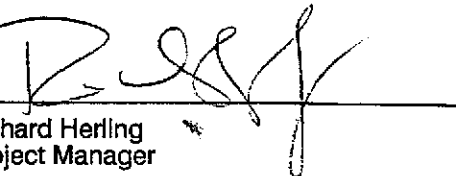
Batch Number: GC012998BTEXEXA
Instrument ID: GCHP22

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	1.0	N.D.
Diethyl t-Butyl Ether	0.025	N.D.
Benzene	0.0050	N.D.
Toluene	0.0050	N.D.
Ethyl Benzene	0.0050	N.D.
Xylenes (Total)	0.0050	N.D.
Chromatogram Pattern:		
Surrogates	Control Limits %	% Recovery
1,1-Difluorotoluene	70	130
Bromofluorobenzene	60	140
		73
		87

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

SEQUOIA ANALYTICAL - ELAP #1210



Richard Herling
Project Manager





Cambria 1144 65th St. Suite C Oakland, CA 94608	Client Proj. ID: Shell 2300 Santa Clara Sample Descript: GP-C 6.0' Matrix: SOLID Analysis Method: EPA 8015 Mod Lab Number: 9801F42-05	Sampled: 01/26/98 Received: 01/28/98 Extracted: 01/29/98 Analyzed: 01/31/98 Reported: 02/04/98
Attention: Aubrey Cool		

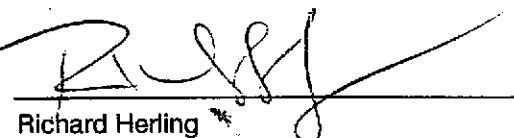
QC Batch Number: GC012998OHBPEXC
Instrument ID: GCHP4B

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TEPH as Diesel Chromatogram Pattern:	1.0	2.1 C9-C24
Surrogates	Control Limits %	% Recovery
n-Pentacosane (C25)	50 150	78

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

SEQUOIA ANALYTICAL - ELAP #1210



Richard Herling
Project Manager





Cambria 1144 65th St. Suite C Oakland, CA 94608	Client Proj. ID: Shell 2300 Santa Clara Sample Descript: GP-C Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9801F42-06	Sampled: 01/26/98 Received: 01/28/98 Analyzed: 01/29/98 Reported: 02/04/98
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QC Batch Number: GC012998BTEX03A
Instrument ID: GCHP3

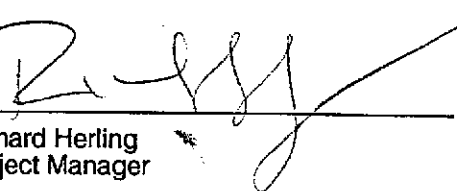
Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

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:		N.D.

Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	93

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

SEQUOIA ANALYTICAL - ELAP #1210


Richard Herling
Project Manager





Cambria 1144 65th St. Suite C Oakland, CA 94608	Client Proj. ID: Shell 2300 Santa Clara Sample Descript: GP-C Matrix: LIQUID Analysis Method: EPA 8240 Lab Number: 9801F42-06	Sampled: 01/26/98 Received: 01/28/98 Analyzed: 02/02/98 Reported: 02/04/98
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QC Batch Number: MS0130988240F3A
Instrument ID: F3

Volatile Organics (EPA 8240)

Analyte	Detection Limit ug/L	Sample Results ug/L
Acetone	10	N.D.
Benzene	2.0	N.D.
Bromodichloromethane	2.0	N.D.
Bromoform	2.0	N.D.
Bromomethane	2.0	N.D.
2-Butanone	10	N.D.
Carbon disulfide	2.0	N.D.
Carbon tetrachloride	2.0	N.D.
Chlorobenzene	2.0	N.D.
Chloroethane	2.0	N.D.
2-Chloroethyl vinyl ether	10	N.D.
Chloroform	2.0	N.D.
Chloromethane	2.0	N.D.
Dibromochloromethane	2.0	N.D.
1,1-Dichloroethane	2.0	N.D.
1,2-Dichloroethane	2.0	N.D.
1,1-Dichloroethene	2.0	N.D.
cis-1,2-Dichloroethene	2.0	N.D.
trans-1,2-Dichloroethene	2.0	N.D.
1,2-Dichloropropane	2.0	N.D.
cis-1,3-Dichloropropene	2.0	N.D.
trans-1,3-Dichloropropene	2.0	N.D.
Ethylbenzene	2.0	N.D.
2-Hexanone	10	N.D.
Methylene chloride	5.0	N.D.
4-Methyl-2-pentanone	10	N.D.
Styrene	2.0	N.D.
1,1,2,2-Tetrachloroethane	2.0	N.D.
Tetrachloroethene	2.0	N.D.
Toluene	2.0	N.D.
1,1,1-Trichloroethane	2.0	N.D.
1,1,2-Trichloroethane	2.0	N.D.
Trichloroethene	2.0	N.D.
Trichlorofluoromethane	2.0	N.D.
Vinyl acetate	5.0	N.D.
Vinyl chloride	2.0	N.D.
Total Xylenes	2.0	N.D.



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Cambria 1144 65th St. Suite C Oakland, CA 94608	Client Proj. ID: Shell 2300 Santa Clara Sample Descript: GP-C Matrix: LIQUID Analysis Method: EPA 8240 Lab Number: 9801F42-06	Sampled: 01/26/98 Received: 01/28/98 Analyzed: 02/02/98 Reported: 02/04/98
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Batch Number: MS0130988240F3A
Instrument ID: F3

Analyte	Detection Limit ug/L	Sample Results ug/L
Surrogates	Control Limits %	% Recovery
1,2-Dichloroethane-d4	76	114
Toluene-d8	88	110
4-Bromofluorobenzene	86	115

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

SEQUOIA ANALYTICAL - ELAP #1210



Richard Herling
Project Manager





Cambria 1144 65th St. Suite C Oakland, CA 94608 Attention: Aubrey Cool	Client Proj. ID: Shell 2300 Santa Clara Sample Descript: GP-D 6.0' Matrix: SOLID Analysis Method: EPA 8240 Lab Number: 9801F42-07	Sampled: 01/26/98 Received: 01/28/98 Extracted: 01/30/98 Analyzed: 01/30/98 Reported: 02/04/98
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QC Batch Number: MS0130988240EXA
Instrument ID: F3

Volatile Organics (EPA 8240)

Analyte	Detection Limit ug/Kg	Sample Results ug/Kg
Acetone	500	N.D.
Benzene	100	N.D.
Bromodichloromethane	100	N.D.
Bromoform	100	N.D.
Bromomethane	100	N.D.
2-Butanone	500	N.D.
Carbon disulfide	100	N.D.
Carbon tetrachloride	100	N.D.
Chlorobenzene	100	N.D.
Chloroethane	100	N.D.
2-Chloroethyl vinyl ether	500	N.D.
Chloroform	100	N.D.
Chloromethane	100	N.D.
Dibromochloromethane	100	N.D.
1,1-Dichloroethane	100	N.D.
1,2-Dichloroethane	100	N.D.
1,1-Dichloroethene	100	N.D.
cis-1,2-Dichloroethene	100	N.D.
trans-1,2-Dichloroethene	100	N.D.
1,2-Dichloropropane	100	N.D.
cis-1,3-Dichloropropene	100	N.D.
trans-1,3-Dichloropropene	100	N.D.
Ethylbenzene	100	N.D.
2-Hexanone	500	N.D.
Methylene chloride	250	N.D.
4-Methyl-2-pentanone	500	N.D.
Styrene	100	N.D.
1,1,2,2-Tetrachloroethane	100	N.D.
Tetrachloroethene	100	N.D.
Toluene	100	N.D.
1,1,1-Trichloroethane	100	N.D.
1,1,2-Trichloroethane	100	N.D.
Trichloroethene	100	N.D.
Trichlorofluoromethane	100	N.D.
Vinyl acetate	250	N.D.
Vinyl chloride	100	N.D.
Total Xylenes	100	N.D.





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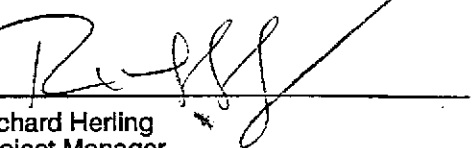
FAX (650) 364-9233
FAX (510) 988-9673
FAX (916) 921-0100

<p>Gambria 144 65th St. Suite C Oakland, CA 94608 Attention: Aubrey Cool Batch Number: MS0130988240EXA Instrument ID: F3</p>	<p>Client Proj. ID: Shell 2300 Santa Clara Sample Descript: GP-D 6.0' Matrix: SOLID Analysis Method: EPA 8240 Lab Number: 9801F42-07</p>	<p>Sampled: 01/26/98 Received: 01/28/98 Extracted: 01/30/98 Analyzed: 01/30/98 Reported: 02/04/98</p>
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Analyte	Detection Limit ug/Kg	Sample Results ug/Kg
Surrogates	Control Limits %	% Recovery
1,2-Dichloroethane-d4	70	121
1,2,4-Trichlorobenzene-d8	81	117
1,2-Dibromofluorobenzene	74	121
		96

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

SEQUOIA ANALYTICAL - ELAP #1210


Richard Herling
Project Manager





Cambria 1144 65th St. Suite C Oakland, CA 94608 Attention: Aubrey Cool	Client Proj. ID: Shell 2300 Santa Clara Sample Descript: GP-D 6.0' Matrix: SOLID Analysis Method: 8015Mod/8020 Lab Number: 9801F42-07	Sampled: 01/26/98 Received: 01/28/98 Extracted: 01/29/98 Analyzed: 01/30/98 Reported: 02/04/98
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QC Batch Number: GC012998BTEXEXA
Instrument ID: GCHP22

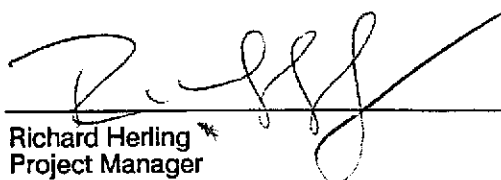
Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	1.0	N.D.
Methyl t-Butyl Ether	0.025	N.D.
Benzene	0.0050	N.D.
Toluene	0.0050	N.D.
Ethyl Benzene	0.0050	N.D.
Xylenes (Total)	0.0050	N.D.
Chromatogram Pattern:		

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	76
4-Bromofluorobenzene	60	140	90

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

SEQUOIA ANALYTICAL - ELAP #1210


Richard Herling *
Project Manager





Cambria 1144 65th St. Suite C Oakland, CA 94608	Client Proj. ID: Shell 2300 Santa Clara Sample Descript: GP-D 6.0' Matrix: SOLID Analysis Method: EPA 8015 Mod Lab Number: 9801F42-07	Sampled: 01/26/98 Received: 01/28/98 Extracted: 01/29/98 Analyzed: 01/31/98 Reported: 02/04/98
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QC Batch Number: GC012998OHBPEXC
Instrument ID: GCHP4B

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TEPH as Diesel Chromatogram Pattern:	1.0	4.5 C9-C24
Surrogates n-Pentacosane (C25)	Control Limits % 50 150	% Recovery 79

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

SEQUOIA ANALYTICAL - ELAP #1210



Richard Herling
Project Manager





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

Attention: Aubrey Cool

Client Proj. ID: Shell 2300 Santa Clara
Sample Descript: GP-D
Matrix: LIQUID
Analysis Method: EPA 8240
Lab Number: 9801F42-08

Sampled: 01/26/98
Received: 01/28/98

Analyzed: 02/02/98
Reported: 02/04/98

QC Batch Number: MS0130988240F3A
Instrument ID: F3

Volatile Organics (EPA 8240)

Analyte	Detection Limit ug/L	Sample Results ug/L
Acetone	10	N.D.
Benzene	2.0	N.D.
Bromodichloromethane	2.0	N.D.
Bromoform	2.0	N.D.
Bromomethane	2.0	N.D.
2-Butanone	10	N.D.
Carbon disulfide	2.0	N.D.
Carbon tetrachloride	2.0	N.D.
Chlorobenzene	2.0	N.D.
Chloroethane	2.0	N.D.
2-Chloroethyl vinyl ether	10	N.D.
Chloroform	2.0	N.D.
Chloromethane	2.0	N.D.
Dibromochloromethane	2.0	N.D.
1,1-Dichloroethane	2.0	N.D.
1,2-Dichloroethane	2.0	N.D.
1,1-Dichloroethene	2.0	N.D.
cis-1,2-Dichloroethene	2.0	N.D.
trans-1,2-Dichloroethene	2.0	N.D.
1,2-Dichloropropane	2.0	N.D.
cis-1,3-Dichloropropene	2.0	N.D.
trans-1,3-Dichloropropene	2.0	N.D.
Ethylbenzene	2.0	N.D.
2-Hexanone	10	N.D.
Methylene chloride	5.0	N.D.
4-Methyl-2-pentanone	10	N.D.
Styrene	2.0	N.D.
1,1,2,2-Tetrachloroethane	2.0	N.D.
Tetrachloroethene	2.0	N.D.
Toluene	2.0	N.D.
1,1,1-Trichloroethane	2.0	N.D.
1,1,2-Trichloroethane	2.0	N.D.
Trichloroethene	2.0	N.D.
Trichlorofluoromethane	2.0	N.D.
Vinyl acetate	5.0	N.D.
Vinyl chloride	2.0	N.D.
Total Xylenes	2.0	N.D.





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FAX (916) 921-0100

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

Client Proj. ID: Shell 2300 Santa Clara
Sample Descript: GP-D
Matrix: LIQUID
Analysis Method: EPA 8240
Lab Number: 9801F42-08

Sampled: 01/26/98
Received: 01/28/98
Analyzed: 02/02/98
Reported: 02/04/98

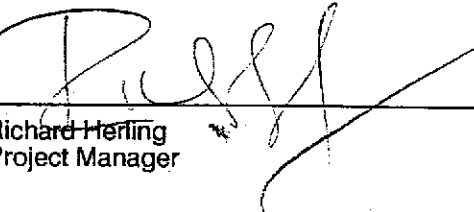
Attention: Aubrey Cool

QC Batch Number: MS0130988240F3A
Instrument ID: F3

Analyte	Detection Limit ug/L	Sample Results ug/L
Surrogates	Control Limits %	% Recovery
1,2-Dichloroethane-d4	76	114
Toluene-d8	88	110
4-Bromofluorobenzene	86	115

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

SEQUOIA ANALYTICAL - ELAP #1210


Richard Herling
Project Manager





Cambria 1144 65th St. Suite C Oakland, CA 94608 Attention: Aubrey Cool	Client Proj. ID: Shell 2300 Santa Clara Sample Descript: GP-D Matrix: LIQUID Analysis Method: EPA 8015 Mod Lab Number: 9801F42-08	Sampled: 01/26/98 Received: 01/28/98 Extracted: 01/29/98 Analyzed: 01/30/98 Reported: 02/04/98
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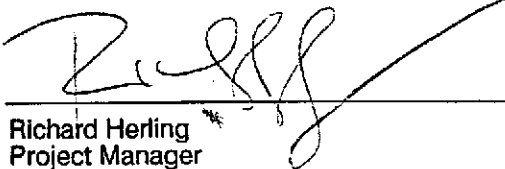
QC Batch Number: GC0129980HBPEXB
Instrument ID: GCHP5B

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit ug/L	Sample Results ug/L
TEPH as Diesel Chromatogram Pattern: Discrete Peak	50	220 C9-C24 @C16
Surrogates n-Pentacosane (C25)	Control Limits % 50 150	% Recovery 90

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

SEQUOIA ANALYTICAL - ELAP #1210


Richard Herling
Project Manager



Cambria 1144 65th St. Suite C Oakland, CA 94608	Client Proj. ID: Shell 2300 Santa Clara Sample Descript: GP-D Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9801F42-08	Sampled: 01/26/98 Received: 01/28/98 Analyzed: 01/29/98 Reported: 02/04/98
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GC Batch Number: GC012998BTEX03A
Instrument ID: GCHP3


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:		N.D.

Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	82

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

SEQUOIA ANALYTICAL - ELAP #1210


Richard Herling
Project Manager





<p>Cambria 1144 65th St. Suite C Oakland, CA 94608 Attention: Aubrey Cool</p>	<p>Client Proj. ID: Shell 2300 Santa Clara Sample Descript: GPE-E 6.0' Matrix: SOLID Analysis Method: EPA 8240 Lab Number: 9801F42-09</p>	<p>Sampled: 01/26/98 Received: 01/28/98 Extracted: 01/30/98 Analyzed: 01/30/98 Reported: 02/04/98</p>
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QC Batch Number: MS0130988240EXA
Instrument ID: F3

Volatile Organics (EPA 8240)

Analyte	Detection Limit ug/Kg	Sample Results ug/Kg
Acetone	500	N.D.
Benzene	100	N.D.
Bromodichloromethane	100	N.D.
Bromoform	100	N.D.
Bromomethane	100	N.D.
2-Butanone	500	N.D.
Carbon disulfide	100	N.D.
Carbon tetrachloride	100	N.D.
Chlorobenzene	100	N.D.
Chloroethane	100	N.D.
2-Chloroethyl vinyl ether	500	N.D.
Chloroform	100	N.D.
Chloromethane	100	N.D.
Dibromochloromethane	100	N.D.
1,1-Dichloroethane	100	N.D.
1,2-Dichloroethane	100	N.D.
1,1-Dichloroethene	100	N.D.
cis-1,2-Dichloroethene	100	N.D.
trans-1,2-Dichloroethene	100	N.D.
1,2-Dichloropropane	100	N.D.
cis-1,3-Dichloropropene	100	N.D.
trans-1,3-Dichloropropene	100	N.D.
Ethylbenzene	100	N.D.
2-Hexanone	500	N.D.
Methylene chloride	250	N.D.
4-Methyl-2-pentanone	500	N.D.
Styrene	100	N.D.
1,1,2,2-Tetrachloroethane	100	N.D.
Tetrachloroethene	100	N.D.
Toluene	100	N.D.
1,1,1-Trichloroethane	100	N.D.
1,1,2-Trichloroethane	100	N.D.
Trichloroethene	100	N.D.
Trichlorofluoromethane	100	N.D.
Vinyl acetate	250	N.D.
Vinyl chloride	100	N.D.
Total Xylenes	100	N.D.



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65th St. Suite C Santa Clara, CA 94608 Contact: Aubrey Cool Batch Number: MS0130988240EXA Instrument ID: F3	Client Proj. ID: Shell 2300 Santa Clara Sample Descript: GPE-E 6.0' Matrix: SOLID Analysis Method: EPA 8240 Lab Number: 9801F42-09	Sampled: 01/26/98 Received: 01/28/98 Extracted: 01/30/98 Analyzed: 01/30/98 Reported: 02/04/98
---	--	--

Concentration	Detection Limit ug/Kg	Sample Results ug/Kg
Chlorinated hydrocarbons		
1,1,1-trichloroethane-d4	70	121
1,1,2-trichloroethane-d8	81	117
1,2-dichlorobenzene	74	121

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

SEQUOIA ANALYTICAL - ELAP #1210

[Signature]

 Aubrey Cool
 Lab Manager





Cambria 1144 65th St. Suite C Oakland, CA 94608 Attention: Aubrey Cool	Client Proj. ID: Shell 2300 Santa Clara Sample Descript: GPE-E 6.0' Matrix: SOLID Analysis Method: 8015Mod/8020 Lab Number: 9801F42-09	Sampled: 01/26/98 Received: 01/28/98 Extracted: 01/29/98 Analyzed: 01/30/98 Reported: 02/04/98
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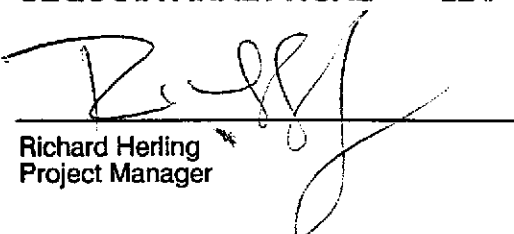
QC Batch Number: GC012998BTEXEXA
Instrument ID: GCHP22

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	1.0	N.D.
Methyl t-Butyl Ether	0.025	N.D.
Benzene	0.0050	N.D.
Toluene	0.0050	N.D.
Ethyl Benzene	0.0050	N.D.
Xylenes (Total)	0.0050	N.D.
Chromatogram Pattern:		
Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70	130
4-Bromofluorobenzene	60	140
		79
		93

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

SEQUOIA ANALYTICAL - ELAP #1210


Richard Herling
Project Manager



Cambria 1144 65th St. Suite C Oakland, CA 94608	Client Proj. ID: Shell 2300 Santa Clara Sample Descript: GPE-E 6.0' Matrix: SOLID Analysis Method: EPA 8015 Mod Lab Number: 9801F42-09	Sampled: 01/26/98 Received: 01/28/98 Extracted: 01/29/98 Analyzed: 01/31/98 Reported: 02/04/98
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GC Batch Number: GC012998OHBPEXC
Instrument ID: GCHP4B

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TEPH as Diesel Chromatogram Pattern:	1.0	1.0 C9-C24
Surrogates	Control Limits %	% Recovery
n-Pentacosane (C25)	50 150	71

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

SEQUOIA ANALYTICAL - ELAP #1210

[Signature]
Richard Herling
Project Manager





Cambria 1144 65th St. Suite C Oakland, CA 94608 Attention: Aubrey Cool	Client Proj. ID: Shell 2300 Santa Clara Sample Descript: GP-E Matrix: LIQUID Analysis Method: EPA 8240 Lab Number: 9801F42-10	Sampled: 01/26/98 Received: 01/28/98 Analyzed: 02/02/98 Reported: 02/04/98
---	---	---

QC Batch Number: MS0130988240F3A
Instrument ID: F3

Volatile Organics (EPA 8240)

Analyte	Detection Limit ug/L	Sample Results ug/L
Acetone	10	N.D.
Benzene	2.0	N.D.
Bromodichloromethane	2.0	N.D.
Bromoform	2.0	N.D.
Bromomethane	2.0	N.D.
2-Butanone	10	N.D.
Carbon disulfide	2.0	N.D.
Carbon tetrachloride	2.0	N.D.
Chlorobenzene	2.0	N.D.
Chloroethane	2.0	N.D.
2-Chloroethyl vinyl ether	10	N.D.
Chloroform	2.0	N.D.
Chloromethane	2.0	N.D.
Dibromochloromethane	2.0	N.D.
1,1-Dichloroethane	2.0	N.D.
1,2-Dichloroethane	2.0	N.D.
1,1-Dichloroethene	2.0	N.D.
cis-1,2-Dichloroethene	2.0	N.D.
trans-1,2-Dichloroethene	2.0	N.D.
1,2-Dichloropropane	2.0	N.D.
cis-1,3-Dichloropropene	2.0	N.D.
trans-1,3-Dichloropropene	2.0	N.D.
Ethylbenzene	2.0	N.D.
2-Hexanone	10	N.D.
Methylene chloride	5.0	N.D.
4-Methyl-2-pentanone	10	N.D.
Styrene	2.0	N.D.
1,1,2,2-Tetrachloroethane	2.0	N.D.
Tetrachloroethene	2.0	N.D.
Toluene	2.0	N.D.
1,1,1-Trichloroethane	2.0	N.D.
1,1,2-Trichloroethane	2.0	N.D.
Trichloroethene	2.0	N.D.
Trichlorofluoromethane	2.0	N.D.
Vinyl acetate	5.0	N.D.
Vinyl chloride	2.0	N.D.
Total Xylenes	2.0	N.D.



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

Client Proj. ID: Shell 2300 Santa Clara
Sample Descript: GP-E
Matrix: LIQUID
Analysis Method: EPA 8240
Lab Number: 9801F42-10

Sampled: 01/26/98
Received: 01/28/98
Analyzed: 02/02/98
Reported: 02/04/98

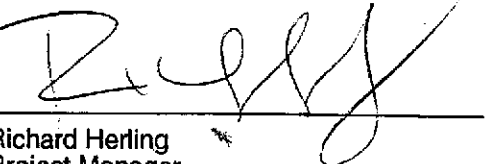
Attention: Aubrey Cool

QC Batch Number: MS0130988240F3A
Instrument ID: F3

Analyte	Detection Limit ug/L	Sample Results ug/L
Surrogates	Control Limits %	% Recovery
1,2-Dichloroethane-d4	76	114
Toluene-d8	88	110
4-Bromofluorobenzene	86	115

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

SEQUOIA ANALYTICAL - ELAP #1210



Richard Herling
Project Manager





Cambria 1144 65th St. Suite C Oakland, CA 94608 Attention: Aubrey Cool	Client Proj. ID: Shell 2300 Santa Clara Sample Descript: GP-E Matrix: LIQUID Analysis Method: EPA 8015 Mod Lab Number: 9801F42-10	Sampled: 01/26/98 Received: 01/28/98 Extracted: 01/29/98 Analyzed: 01/30/98 Reported: 02/04/98
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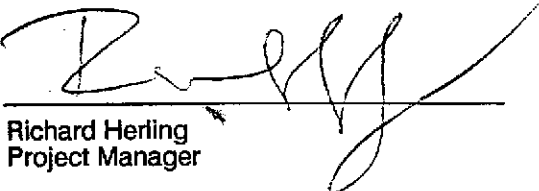
QC Batch Number: GC0129980HBPEXB
Instrument ID: GCHP5B

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit ug/L	Sample Results ug/L
TEPH as Diesel Chromatogram Pattern: Discrete Peak	50	320 C9-C24 @C16
Surrogates n-Pentacosane (C25)	Control Limits % 50 150	% Recovery 95

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

SEQUOIA ANALYTICAL - ELAP #1210


Richard Herling
Project Manager



Cambria 1144 65th St. Suite C Oakland, CA 94608 Attention: Aubrey Cool	Client Proj. ID: Shell 2300 Santa Clara Sample Descript: GP-E Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9801F42-10	Sampled: 01/26/98 Received: 01/28/98 Analyzed: 01/29/98 Reported: 02/04/98
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GC Batch Number: GC012998BTEX03A
Instrument ID: GCHP3

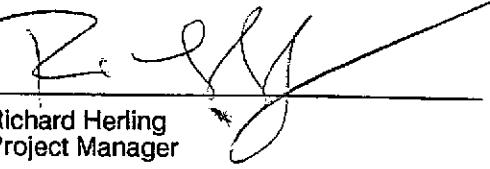
Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

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:		N.D.

Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	92

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

SEQUOIA ANALYTICAL - ELAP #1210


Richard Herling
Project Manager





Cambria 1144 65th St. Suite C Oakland, CA 94608 Attention: Aubrey Cool	Client Proj. ID: Shell 2300 Santa Clara Sample Descript: GP-H Matrix: LIQUID Analysis Method: EPA 8240 Lab Number: 9801F42-11	Sampled: 01/26/98 Received: 01/28/98 Analyzed: 02/03/98 Reported: 02/04/98
---	---	---

QC Batch Number: MS0130988240F3A
Instrument ID: F3

Volatile Organics (EPA 8240)

Analyte	Detection Limit ug/L	Sample Results ug/L
Acetone	10	56
Benzene	2.0	N.D.
Bromodichloromethane	2.0	N.D.
Bromoform	2.0	N.D.
Bromomethane	2.0	N.D.
2-Butanone	10	N.D.
Carbon disulfide	2.0	N.D.
Carbon tetrachloride	2.0	N.D.
Chlorobenzene	2.0	N.D.
Chloroethane	2.0	N.D.
2-Chloroethyl vinyl ether	10	N.D.
Chloroform	2.0	N.D.
Chloromethane	2.0	N.D.
Dibromochloromethane	2.0	N.D.
1,1-Dichloroethane	2.0	N.D.
1,2-Dichloroethane	2.0	N.D.
1,1-Dichloroethene	2.0	N.D.
cis-1,2-Dichloroethene	2.0	N.D.
trans-1,2-Dichloroethene	2.0	N.D.
1,2-Dichloropropane	2.0	N.D.
cis-1,3-Dichloropropene	2.0	N.D.
trans-1,3-Dichloropropene	2.0	N.D.
Ethylbenzene	2.0	N.D.
2-Hexanone	10	N.D.
Methylene chloride	5.0	N.D.
4-Methyl-2-pentanone	10	N.D.
Styrene	2.0	N.D.
1,1,2,2-Tetrachloroethane	2.0	N.D.
Tetrachloroethene	2.0	N.D.
Toluene	2.0	N.D.
1,1,1-Trichloroethane	2.0	N.D.
1,1,2-Trichloroethane	2.0	N.D.
Trichloroethene	2.0	N.D.
Trichlorofluoromethane	2.0	N.D.
Vinyl acetate	5.0	N.D.
Vinyl chloride	2.0	N.D.
Total Xylenes	2.0	N.D.



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

Client Proj. ID: Shell 2300 Santa Clara
Sample Descript: GP-H
Matrix: LIQUID
Analysis Method: EPA 8240
Lab Number: 9801F42-11

Sampled: 01/26/98
Received: 01/28/98
Analyzed: 02/03/98
Reported: 02/04/98

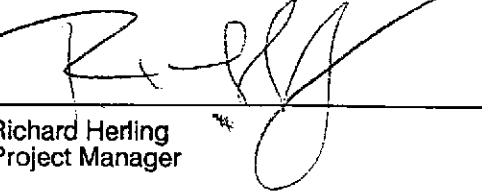
Attention: Aubrey Cool

GC Batch Number: MS0130988240F3A
Instrument ID: F3

Analyte	Detection Limit ug/L	Sample Results ug/L
Surrogates	Control Limits %	% Recovery
1,2-Dichloroethane-d4	76	114
Toluene-d8	88	110
4-Bromofluorobenzene	86	115

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

SEQUOIA ANALYTICAL - ELAP #1210


Richard Herling
Project Manager



Cambria 1144 65th St. Suite C Oakland, CA 94608	Client Proj. ID: Shell 2300 Santa Clara Sample Descript: GP-H Matrix: LIQUID Analysis Method: EPA 8015 Mod Lab Number: 9801F42-11	Sampled: 01/26/98 Received: 01/28/98 Extracted: 01/29/98 Analyzed: 01/30/98 Reported: 02/04/98
Attention: Aubrey Cool		


QC Batch Number: GC0129980HBPEXB
Instrument ID: GCHP5B

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit ug/L	Sample Results ug/L
TEPH as Diesel Chromatogram Pattern:	50	1500 C9-C24
Surrogates n-Pentacosane (C25)	Control Limits % 50	% Recovery 111

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

SEQUOIA ANALYTICAL - ELAP #1210



Richard Herling
Project Manager





Cambria 1144 65th St. Suite C Oakland, CA 94608	Client Proj. ID: Shell 2300 Santa Clara Sample Descript: GP-H Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9801F42-11	Sampled: 01/26/98 Received: 01/28/98 Analyzed: 01/29/98 Reported: 02/04/98
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GC Batch Number: GC012998BTEX03A
Instrument ID: GCHP3

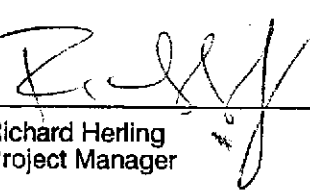
Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

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	0.58
Ethyl Benzene	0.50	N.D.
Xylenes (Total)	0.50	N.D.
Chromatogram Pattern:		N.D.

Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	83

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

SEQUOIA ANALYTICAL - ELAP #1210


Richard Herling
Project Manager





Cambria 1144 65th St. Suite C Oakland, CA 94608	Client Proj. ID: Shell 2300 Santa Clara Sample Descript: GP-F 5.0' Matrix: SOLID Analysis Method: EPA 8240 Lab Number: 9801F42-12	Sampled: 01/26/98 Received: 01/28/98 Extracted: 01/30/98 Analyzed: 01/30/98 Reported: 02/04/98
---	---	--

QC Batch Number: MS0130988240EXA
Instrument ID: F3

Volatile Organics (EPA 8240)

Analyte	Detection Limit ug/Kg	Sample Results ug/Kg
Acetone	500	N.D.
Benzene	100	N.D.
Bromodichloromethane	100	N.D.
Bromoform	100	N.D.
Bromomethane	100	N.D.
2-Butanone	500	N.D.
Carbon disulfide	100	N.D.
Carbon tetrachloride	100	N.D.
Chlorobenzene	100	N.D.
Chloroethane	100	N.D.
2-Chloroethyl vinyl ether	500	N.D.
Chloroform	100	N.D.
Chloromethane	100	N.D.
Dibromochloromethane	100	N.D.
1,1-Dichloroethane	100	N.D.
1,2-Dichloroethane	100	N.D.
1,1-Dichloroethene	100	N.D.
cis-1,2-Dichloroethene	100	N.D.
trans-1,2-Dichloroethene	100	N.D.
1,2-Dichloropropane	100	N.D.
cis-1,3-Dichloropropene	100	N.D.
trans-1,3-Dichloropropene	100	N.D.
Ethylbenzene	100	N.D.
2-Hexanone	500	N.D.
Methylene chloride	250	N.D.
4-Methyl-2-pentanone	500	N.D.
Styrene	100	N.D.
1,1,2,2-Tetrachloroethane	100	N.D.
Tetrachloroethene	100	N.D.
Toluene	100	N.D.
1,1,1-Trichloroethane	100	N.D.
1,1,2-Trichloroethane	100	N.D.
Trichloroethene	100	N.D.
Trichlorofluoromethane	100	N.D.
Vinyl acetate	250	N.D.
Vinyl chloride	100	N.D.
Total Xylenes	100	N.D.



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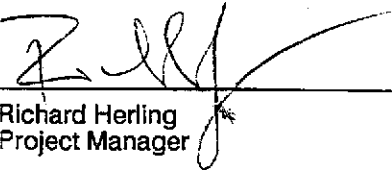
Cambria 1144 65th St. Suite C Oakland, CA 94608 Attention: Aubrey Cool	Client Proj. ID: Shell 2300 Santa Clara Sample Descript: GP-F 5.0' Matrix: SOLID Analysis Method: EPA 8240 Lab Number: 9801F42-12	Sampled: 01/26/98 Received: 01/28/98 Extracted: 01/30/98 Analyzed: 01/30/98 Reported: 02/04/98
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QC Batch Number: MS0130988240EXA
Instrument ID: F3

Analyte	Detection Limit ug/Kg	Sample Results ug/Kg
Surrogates	Control Limits %	% Recovery
1,2-Dichloroethane-d4	70	121
Toluene-d8	81	117
4-Bromofluorobenzene	74	121

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

SEQUOIA ANALYTICAL - ELAP #1210


Richard Herling
Project Manager





Cambria 1144 65th St. Suite C Oakland, CA 94608	Client Proj. ID: Shell 2300 Santa Clara Sample Descript: GP-F 5.0' Matrix: SOLID Analysis Method: 8015Mod/8020 Lab Number: 9801F42-12	Sampled: 01/26/98 Received: 01/28/98 Extracted: 01/29/98 Analyzed: 01/30/98 Reported: 02/04/98
Attention: Aubrey Cool		

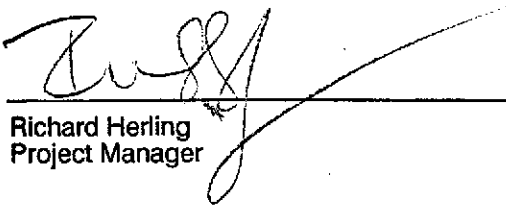
QC Batch Number: GC012998BTEXEXA
Instrument ID: GCHP22

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	1.0	N.D.
Methyl t-Butyl Ether	0.025	N.D.
Benzene	0.0050	N.D.
Toluene	0.0050	N.D.
Ethyl Benzene	0.0050	N.D.
Xylenes (Total)	0.0050	N.D.
Chromatogram Pattern:		
Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70	130
4-Bromofluorobenzene	60	140

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

SEQUOIA ANALYTICAL - ELAP #1210


Richard Herling
Project Manager



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hria
4 65th St. Suite C
land, CA 94608

Client Proj. ID: Shell 2300 Santa Clara
Sample Descript: GP-F 5.0'
Matrix: SOLID
Analysis Method: EPA 8015 Mod
Lab Number: 9801F42-12

Sampled: 01/26/98
Received: 01/28/98
Extracted: 01/29/98
Analyzed: 01/31/98
Reported: 02/04/98

ntion: Aubrey Cool

atch Number: GC012998OHBPEXC
ment ID: GCHP4B

Total Extractable Petroleum Hydrocarbons (TEPH)

lyte

Detection Limit
mg/Kg

Sample Results
mg/Kg

H as Diesel
omatogram Pattern:

1.0

2.1
C9-C24

rogates
entacosane (C25)

Control Limits %
50 150

% Recovery
69

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

UOIA ANALYTICAL - ELAP #1210


David Herling
Project Manager



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

Client Proj. ID: Shell 2300 Santa Clara

Lab Proj. ID: 9801F43

Sampled: 01/26/98

Received: 01/28/98

Analyzed: see below

Attention: Aubrey Cool

Reported: 02/04/98

LABORATORY ANALYSIS

Analyte	Units	Date Analyzed	Detection Limit	Sample Results
Lab No: 9801F43-13 Sample Desc: LIQUID,GP-F				
Lead	mg/L	02/02/98	0.0050	0.044
Lab No: 9801F43-14 Sample Desc: LIQUID,GP-G				
Lead	mg/L	02/02/98	0.0050	0.020
Lab No: 9801F43-15 Sample Desc: SOLID,GP-G 7.0'				
Lead	mg/Kg	01/30/98	5.0	N.D.
Lab No: 9801F43-16 Sample Desc: SOLID,GP-H 6.0'				
Lead	mg/Kg	01/30/98	5.0	N.D.

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

SEQUOIA ANALYTICAL - ELAP #1210

Richard Herling
Project Manager



Cambria 1144 65th St. Suite C Oakland, CA 94608	Client Proj. ID: Shell 2300 Santa Clara Sample Descript: GP-F Matrix: LIQUID Analysis Method: EPA 8240 Lab Number: 9801F43-13	Sampled: 01/26/98 Received: 01/28/98 Analyzed: 01/30/98 Reported: 02/04/98
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GC Batch Number: MS0130988240F2A
Instrument ID: F2

Volatile Organics (EPA 8240)

Analyte	Detection Limit ug/L	Sample Results ug/L
Acetone	10	N.D.
Benzene	2.0	N.D.
Bromodichloromethane	2.0	N.D.
Bromoform	2.0	N.D.
Bromomethane	2.0	N.D.
2-Butanone	10	N.D.
Carbon disulfide	2.0	N.D.
Carbon tetrachloride	2.0	N.D.
Chlorobenzene	2.0	N.D.
Chloroethane	2.0	N.D.
2-Chloroethyl vinyl ether	10	N.D.
Chloroform	2.0	N.D.
Chloromethane	2.0	N.D.
Dibromochloromethane	2.0	N.D.
1,1-Dichloroethane	2.0	N.D.
1,2-Dichloroethane	2.0	N.D.
1,1-Dichloroethene	2.0	N.D.
cis-1,2-Dichloroethene	2.0	N.D.
trans-1,2-Dichloroethene	2.0	N.D.
1,2-Dichloropropane	2.0	N.D.
cis-1,3-Dichloropropene	2.0	N.D.
trans-1,3-Dichloropropene	2.0	N.D.
Ethylbenzene	2.0	N.D.
2-Hexanone	10	N.D.
Methylene chloride	5.0	N.D.
4-Methyl-2-pentanone	10	N.D.
Styrene	2.0	N.D.
1,1,1,2-Tetrachloroethane	2.0	N.D.
Tetrachloroethene	2.0	N.D.
Toluene	2.0	N.D.
1,1,1-Trichloroethane	2.0	N.D.
1,1,2-Trichloroethane	2.0	N.D.
Trichloroethene	2.0	N.D.
Trichlorofluoromethane	2.0	N.D.
Vinyl acetate	5.0	N.D.
Vinyl chloride	2.0	N.D.
Total Xylenes	2.0	N.D.



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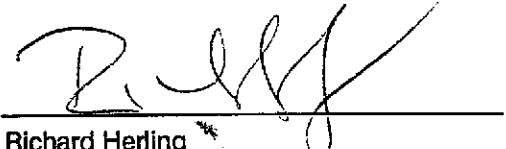
Cambria 1144 65th St. Suite C Oakland, CA 94608 Attention: Aubrey Cool	Client Proj. ID: Shell 2300 Santa Clara Sample Descript: GP-F Matrix: LIQUID Analysis Method: EPA 8240 Lab Number: 9801F43-13	Sampled: 01/26/98 Received: 01/28/98 Analyzed: 01/30/98 Reported: 02/04/98
---	---	---

QC Batch Number: MS0130988240F2A
Instrument ID: F2

Analyte	Detection Limit ug/L	Sample Results ug/L
Surrogates	Control Limits %	% Recovery
1,2-Dichloroethane-d4	76	114
Toluene-d8	88	110
4-Bromofluorobenzene	86	115

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

SEQUOIA ANALYTICAL - ELAP #1210


Richard Herling
Project Manager



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

Client Proj. ID: Shell 2300 Santa Clara
Sample Descript: GP-F
Matrix: LIQUID
Analysis Method: EPA 8015 Mod
Lab Number: 9801F43-13

Sampled: 01/26/98
Received: 01/28/98
Extracted: 01/29/98
Analyzed: 01/30/98
Reported: 02/04/98

Attention: Aubrey Cool

IC Batch Number: GC0129980HBPEXB
Instrument ID: GCHP5B

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit ug/L	Sample Results ug/L
TEPH as Diesel Chromatogram Pattern: Discrete Peaks	50	150 C9-C24 @C16
Surrogates n-Pentacosane (C25)	Control Limits % 50 150	% Recovery 88

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

SEQUOIA ANALYTICAL - ELAP #1210

Richard Herling
Project Manager



Cambria 1144 65th St. Suite C Oakland, CA 94608	Client Proj. ID: Shell 2300 Santa Clara Sample Descript: GP-F Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9801F43-13	Sampled: 01/26/98 Received: 01/28/98 Analyzed: 01/29/98 Reported: 02/04/98
---	---	---


QC Batch Number: GC012998BTEX03A
Instrument ID: GCHP3

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	93

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

SEQUOIA ANALYTICAL - ELAP #1210


Richard Herling
Project Manager





Cambria 1144 65th St. Suite C Oakland, CA 94608	Client Proj. ID: Shell 2300 Santa Clara Sample Descript: GP-G Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9801F43-14	Sampled: 01/26/98 Received: 01/28/98 Analyzed: 01/29/98 Reported: 02/04/98
Attention: Aubrey Cool		
GC Batch Number: GC012998BTEX03A Instrument ID: GCHP3		

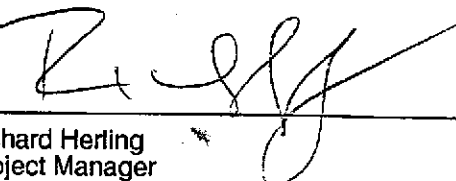
Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

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:		N.D.

Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	93

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

EQUOIA ANALYTICAL - ELAP #1210


Richard Herling
Project Manager





Cambria 1144 65th St. Suite C Oakland, CA 94608 Attention: Aubrey Cool	Client Proj. ID: Shell 2300 Santa Clara Sample Descript: GP-G 7.0' Matrix: SOLID Analysis Method: 8015Mod/8020 Lab Number: 9801F43-15	Sampled: 01/26/98 Received: 01/28/98 Extracted: 01/29/98 Analyzed: 01/30/98 Reported: 02/04/98
---	---	--

QC Batch Number: GC012998BTEXEXA
Instrument ID: GCHP07

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	1.0	N.D.
Methyl t-Butyl Ether	0.025	N.D.
Benzene	0.0050	N.D.
Toluene	0.0050	N.D.
Ethyl Benzene	0.0050	N.D.
Xylenes (Total)	0.0050	N.D.
Chromatogram Pattern:		
Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70	130
4-Bromofluorobenzene	60	140

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

SEQUOIA ANALYTICAL ELAP #1210

Richard Herling
Project Manager





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

Attention: Aubrey Cool

Client Proj. ID: Shell 2300 Santa Clara
Sample Descript: GP-H 6.0'
Matrix: SOLID
Analysis Method: 8015Mod/8020
Lab Number: 9801F43-16

Sampled: 01/26/98
Received: 01/28/98
Extracted: 02/02/98
Analyzed: 02/02/98
Reported: 02/04/98

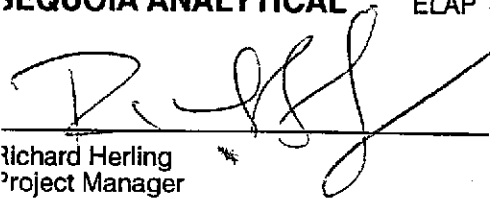
GC Batch Number: GC020298BTEXEXB
Instrument ID: GCHP22

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	1.0	N.D.
Methyl t-Butyl Ether	0.025	N.D.
Benzene	0.0050	N.D.
Toluene	0.0050	N.D.
Ethyl Benzene	0.0050	N.D.
Xylenes (Total)	0.0050	N.D.
Chromatogram Pattern:		
Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	85
4-Bromofluorobenzene	60 140	89

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

SEQUOIA ANALYTICAL ELAP #1210



Richard Herling
Project Manager





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Cambria Environmental Tech.
1144 65th St., Ste. C
Oakland, CA 94608
Attention: Aubrey Cool

Client Project ID: Shell 2300 Santa Clara
Matrix: Solid

Work Order #: 9801F42 01, 03, 07, 09, 12

Reported: Feb 4, 1998

9801F43 15, 16

QUALITY CONTROL DATA REPORT

Analyte:	Beryllium	Cadmium	Chromium	Nickel
QC Batch#:	ME0130986010MDE	ME0130986010MDE	ME0130986010MDE	ME0130986010MDE
Analy. Method:	EPA 6010	EPA 6010	EPA 6010	EPA 6010
Prep. Method:	EPA 3050	EPA 3050	EPA 3050	EPA 3050

Analyst:	S. Lebaron	S. Lebaron	S. Lebaron	S. Lebaron
MS/MSD #:	9801F4201	9801F4201	9801F4201	9801F4201
Sample Conc.:	N.D.	N.D.	40	25
Prepared Date:	1/30/98	1/30/98	1/30/98	1/30/98
Analyzed Date:	1/30/98	1/30/98	1/30/98	1/30/98
Instrument I.D.#:	MTJA5	MTJA5	MTJA5	MTJA5
Conc. Spiked:	50 mg/Kg	50 mg/Kg	50 mg/Kg	50 mg/Kg
Result:	49	47	89	74
MS % Recovery:	98	94	98	98
Dup. Result:	49	48	90	74
MSD % Recov.:	98	96	100	98
RPD:	0.0	2.1	1.1	0.0
RPD Limit:	0-20	0-20	0-20	0-20

LCS #:	BLK013098	BLK013098	BLK013098	BLK013098
Prepared Date:	1/30/98	1/30/98	1/30/98	1/30/98
Analyzed Date:	1/30/98	1/30/98	1/30/98	1/30/98
Instrument I.D.#:	MTJA5	MTJA5	MTJA5	MTJA5
Conc. Spiked:	50 mg/Kg	50 mg/Kg	50 mg/Kg	50 mg/Kg
LCS Result:	50	47	48	48
LCS % Recov.:	100	94	96	96

MS/MSD	80-120	80-120	80-120	80-120
LCS	80-120	80-120	80-120	80-120
Control Limits				

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

Richard Herling
Project Manager

** MS=Matrix Spike, MSD=MS Duplicate, RPD=Relative % Difference

9801F42.CCC <1>



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Cambria Environmental Tech.
1144 65th St., Ste. C
Oakland, CA 94608
Attention: Aubrey Cool

Client Project ID: Shell 2300 Santa Clara
Matrix: Liquid

Work Order #: 9801F42 02, 04, 05, 06, 08, 10, 11
9801F43 13, 14

Reported: Feb 4, 1998

QUALITY CONTROL DATA REPORT

Analyte:	Arsenic	Lead
QC Batch#:	ME0129977000MDA	ME0129977000MDA
Analy. Method:	EPA 206.2	EPA 239.2
Prep. Method:	EPA 3020	EPA 3020

Analyst:	J. Jencks	J. Jencks
MS/MSD #:	9801F4202	9801F4202
Sample Conc.:	N.D.	0.016
Prepared Date:	N.A.	N.A.
Analyzed Date:	2/2/98	2/2/98
Instrument I.D.#:	MTJA3	MTJA3
Conc. Spiked:	0.050 mg/L	0.050 mg/L
Result:	0.050	0.056
MS % Recovery:	100	80
Dup. Result:	0.050	0.056
MSD % Recov.:	100	84
RPD:	0.0	3.5
RPD Limit:	0-20	0-20

LCS #:	BLK012998	BLK012998
Prepared Date:	1/29/98	1/29/98
Analyzed Date:	2/2/98	2/2/98
Instrument I.D.#:	MTJA3	MTJA3
Conc. Spiked:	0.050 mg/L	0.050 mg/L
LCS Result:	0.050	0.050
LCS % Recov.:	100	100

MS/MSD	75-125	75-125
LCS	80-120	80-120
Control Limits		

Please Note:

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SEQUOIA ANALYTICAL

Richard Herling
Project Manager

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9801F42.CCC <2>





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Cambria Environmental Tech.
1144 65th St., Ste. C
Oakland, CA 94608
Attention: Aubrey Cool

Client Project ID: Shell 2300 Santa Clara
Matrix: Solid

Work Order #: 9801F42 01, 03, 05, 07, 09, 12
9801F43 15, 16
Reported: Feb 4, 1998

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes	Gas
QC Batch#:	GC012998BTEXEXA	GC012998BTEXEXA	GC012998BTEXEXA	GC012998BTEXEXA	GC012998BTEXEXA
Analy. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020	EPA 8015M
Prep. Method:	EPA 5030	EPA 5030	EPA 5030	EPA 5030	EPA 5030

Analyst:	J. Minkel	J. Minkel	J. Minkel	J. Minkel	J. Minkel
MS/MSD #:	9801F4201	9801F4201	9801F4201	9801F4201	9801F4201
Sample Conc.:	N.D.	N.D.	N.D.	N.D.	N.D.
Prepared Date:	1/29/98	1/29/98	1/29/98	1/29/98	1/29/98
Analyzed Date:	1/30/98	1/30/98	1/30/98	1/30/98	1/30/98
Instrument I.D.#:	GCHP7	GCHP7	GCHP7	GCHP7	GCHP7
Conc. Spiked:	0.20 mg/Kg	0.20 mg/Kg	0.20 mg/Kg	0.60 mg/Kg	1.2 mg/Kg
Result:	0.18	0.18	0.19	0.56	1.1
MS % Recovery:	90	90	95	93	92
Dup. Result:	0.15	0.15	0.16	0.46	0.90
MSD % Recov.:	75	85	80	77	75
RPD:	18	18	17	20	20
RPD Limit:	0-25	0-25	0-25	0-25	0-25

LCS #:	BLK012998	BLK012998	BLK012998	BLK012998	BLK012998
Prepared Date:	1/29/98	1/29/98	1/29/98	1/29/98	1/29/98
Analyzed Date:	1/30/98	1/30/98	1/30/98	1/30/98	1/30/98
Instrument I.D.#:	GCHP7	GCHP7	GCHP7	GCHP7	GCHP7
Conc. Spiked:	0.20 mg/Kg	0.20 mg/Kg	0.20 mg/Kg	0.60 mg/Kg	1.2 mg/Kg
LCS Result:	0.20	0.20	0.21	0.61	1.2
LCS % Recov.:	100	100	105	102	100

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

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

Richard Herling
Project Manager

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9801F42.CCC <3>



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Cambria Environmental Tech.
1144 65th St., Ste. C
Oakland, CA 94608
Attention: Aubrey Cool

Client Project ID: Shell 2300 Santa Clara
Matrix: Liquid

Work Order #: 9801F42 02, 06, 08, 10, 11
9801F43 13, 14

Reported: Feb 4, 1998

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes	Gas
QC Batch#:	GC012998BTEX03A	GC012998BTEX03A	GC012998BTEX03A	GC012998BTEX03A	GC012998BTEX03A
Analy. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020	EPA 8015M
Prep. Method:	EPA 5030	EPA 5030	EPA 5030	EPA 5030	EPA 5030

Analyst:	A. Miraftab	A. Miraftab	A. Miraftab	A. Miraftab	A. Miraftab
MS/MSD #:	980197202	980197202	980197202	980197202	980197202
Sample Conc.:	N.D.	N.D.	N.D.	N.D.	N.D.
Prepared Date:	1/29/98	1/29/98	1/29/98	1/29/98	1/29/98
Analyzed Date:	1/29/98	1/29/98	1/29/98	1/29/98	1/29/98
Instrument I.D.#:	GCHP3	GCHP3	GCHP3	GCHP3	GCHP3
Conc. Spiked:	10 µg/L	10 µg/L	10 µg/L	30 µg/L	60 µg/L
Result:	8.5	8.5	8.7	26	52
MS % Recovery:	85	85	87	87	87
Dup. Result:	8.4	8.3	8.6	26	52
MSD % Recov.:	84	83	86	87	87
RPD:	1.2	2.4	1.2	0.0	0.0
RPD Limit:	0-25	0-25	0-25	0-25	0-25

LCS #:	BLK012998	BLK012998	BLK012998	BLK012998	BLK012998
Prepared Date:	1/29/98	1/29/98	1/29/98	1/29/98	1/29/98
Analyzed Date:	1/29/98	1/29/98	1/29/98	1/29/98	1/29/98
Instrument I.D.#:	GCHP3	GCHP3	GCHP3	GCHP3	GCHP3
Conc. Spiked:	10 µg/L	10 µg/L	10 µg/L	30 µg/L	60 µg/L
LCS Result:	9.2	9.2	9.5	29	57
LCS % Recov.:	92	92	95	97	95

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

Please Note:

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SEQUOIA ANALYTICAL

Richard Herling
Project Manager

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9801F42.CCC <4>



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Cambria Environmental Tech.
1144 65th St., Ste. C
Oakland, CA 94608
Attention: Aubrey Cool

Client Project ID: Shell 2300 Santa Clara
Matrix: Liquid

Work Order #: 9801F42 04

Reported: Feb 4, 1998

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes	Gas
QC Batch#:	GC012998BTEX02A	GC012998BTEX02A	GC012998BTEX02A	GC012998BTEX02A	GC012998BTEX02A
Analy. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020	EPA 8015M
Prep. Method:	EPA 5030	EPA 5030	EPA 5030	EPA 5030	EPA 5030

Analyst:	A. Miraftab	A. Miraftab	A. Miraftab	A. Miraftab	A. Miraftab
MS/MSD #:	980197203	980197203	980197203	980197203	980197203
Sample Conc.:	N.D.	N.D.	N.D.	N.D.	N.D.
Prepared Date:	1/29/98	1/29/98	1/29/98	1/29/98	1/29/98
Analyzed Date:	1/29/98	1/29/98	1/29/98	1/29/98	1/29/98
Instrument I.D.#:	GCHP2	GCHP2	GCHP2	GCHP2	GCHP2
Conc. Spiked:	10 µg/L	10 µg/L	10 µg/L	30 µg/L	60 µg/L
Result:	8.0	7.7	8.0	24	53
MS % Recovery:	80	77	80	80	88
Dup. Result:	9.5	8.8	9.1	28	61
MSD % Recov.:	95	88	91	93	102
RPD:	17	13	13	15	14
RPD Limit:	0-25	0-25	0-25	0-25	0-25

LCS #:	BLK012998	BLK012998	BLK012998	BLK012998	BLK012998
Prepared Date:	1/29/98	1/29/98	1/29/98	1/29/98	1/29/98
Analyzed Date:	1/29/98	1/29/98	1/29/98	1/29/98	1/29/98
Instrument I.D.#:	GCHP2	GCHP2	GCHP2	GCHP2	GCHP2
Conc. Spiked:	10 µg/L	10 µg/L	10 µg/L	30 µg/L	60 µg/L
LCS Result:	8.8	8.5	8.8	27	58
LCS % Recov.:	88	85	88	90	97

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

Please Note:

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SEQUOIA ANALYTICAL

Richard Hering
Project Manager

** MS=Matrix Spike, MSD=MS Duplicate, RPD=Relative % Difference

9801F42.CCC <5>



Sequoia Analytical

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Cambria Environmental Tech.
1144 65th St., Ste. C
Oakland, CA 94608
Attention: Aubrey Cool

Client Project ID: Shell 2300 Santa Clara
Matrix: Solid

Work Order #: 9801F42 05, 07, 09, 12

Reported: Feb 4, 1998

QUALITY CONTROL DATA REPORT

Analyte: Diesel

QC Batch#: GC0129980HBPEXC

Analy. Method: EPA 8015M

Prep. Method: EPA 3550/DHS

Analyst: A. Porter

MS/MSD #: 9801F3503

Sample Conc.: N.D.

Prepared Date: 1/29/98

Analyzed Date: 1/30/98

Instrument I.D.#: GCHP4B

Conc. Spiked: 25 mg/Kg

Result: 20

MS % Recovery: 80

Dup. Result: 19

MSD % Recov.: 76

RPD: 5.1

RPD Limit: 0-50

LCS #: BLK013098

Prepared Date: 1/29/98

Analyzed Date: 1/30/98

Instrument I.D.#: GCHP4B

Conc. Spiked: 25 mg/Kg

LCS Result: 20

LCS % Recov.: 80

MS/MSD 50-150

LCS 60-140

Control Limits

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


Richard Herling
Project Manager

** MS= Matrix Spike, MSD=MS Duplicate, RPD=Relative % Difference

9801F42.CCC <6>



Sequoia Analytical

680 Chesapeake Drive
404 N. Wiget Lane
819 Striker Avenue, Suite 8

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

(650) 364-9600
(510) 988-9600
(916) 921-9600

FAX (650) 364-9233
FAX (510) 988-9673
FAX (916) 921-0100

Cambria Environmental Tech.
1144 65th St., Ste. C
Oakland, CA 94608
Attention: Aubrey Cool

Client Project ID: Shell 2300 Santa Clara
Matrix: Liquid

Work Order #: 9801F42 08, 10, 11
9801F43 13

Reported: Feb 4, 1998

QUALITY CONTROL DATA REPORT

Analyte: Diesel

QC Batch#: GC0129980HBPEXB

Analy. Method: EPA 8015M

Prep. Method: EPA 3510

Analyst: D. Lockhart

MS/MSD #: BLK012998

Sample Conc.: N.D.

Prepared Date: 1/29/98

Analyzed Date: 1/30/98

Instrument I.D.#: GCHP4B

Conc. Spiked: 1000 µg/L

Result: 7890

MS % Recovery: 790

Dup. Result: 800

MSD % Recov.: 80

RPD: 1.3

RPD Limit: 0-50

LCS #:

Prepared Date:

Analyzed Date:

Instrument I.D.#:

Conc. Spiked:

LCS Result:

LCS % Recov.:

MS/MSD 50-150

LCS 60-140

Control Limits

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

Richard Hering
Project Manager

** MS= Matrix Spike, MSD= MS Duplicate, RPD= Relative % Difference

9801F42.CCC <7>



Sequoia Analytical

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FAX (510) 988-9673
FAX (916) 921-0100

Cambria Environmental Tech.
1144 65th St., Ste. C
Oakland, CA 94608
Attention: Aubrey Cool

Client Project ID: Shell 2300 Santa Clara
Matrix: Solid

Work Order #: 9801F42 05,07,09, 12

Reported: Feb 4, 1998

QUALITY CONTROL DATA REPORT

Analyte:	1,1-Dichloroethene	Trichloroethene	Benzene	Toluene	Chloro-benzene
QC Batch#:	MS0130988240EXA	MS0130988240EXA	MS0130988240EXA	MS0130988240EXA	MS0130988240EXA
Analy. Method:	EPA 8240	EPA 8240	EPA 8240	EPA 8240	EPA 8240
Prep. Method:					

Analyst:	L. Duong	L. Duong	L. Duong	L. Duong	L. Duong
MS/MSD #:	9801F4205	9801F4205	9801F4205	9801F4205	9801F4205
Sample Conc.:	N.D.	N.D.	N.D.	N.D.	N.D.
Prepared Date:	1/30/98	1/30/98	1/30/98	1/30/98	1/30/98
Analyzed Date:	1/30/98	1/30/98	1/30/98	1/30/98	1/30/98
Instrument I.D.#:	F3	F3	F3	F3	F3
Conc. Spiked:	2500 µg/Kg	2500 µg/Kg	2500 µg/Kg	2500 µg/Kg	2500 µg/Kg
Result:	1800	2100	2200	2300	2300
MS % Recovery:	72	84	88	92	92
Dup. Result:	1800	2000	2100	2200	2200
MSD % Recov.:	72	80	84	88	88
RPD:	0.0	4.9	4.7	4.4	4.4
RPD Limit:	0-25	0-25	0-25	0-25	0-25

LCS #:	LCS013098	LCS013098	LCS013098	LCS013098	LCS013098
Prepared Date:	1/30/98	1/30/98	1/30/98	1/30/98	1/30/98
Analyzed Date:	1/30/98	1/30/98	1/30/98	1/30/98	1/30/98
Instrument I.D.#:	F3	F3	F3	F3	F3
Conc. Spiked:	2500 µg/Kg	2500 µg/Kg	2500 µg/Kg	2500 µg/Kg	2500 µg/Kg
LCS Result:	2000	2200	2300	2300	2300
LCS % Recov.:	80	88	92	92	92

MS/MSD	60-140	60-140	60-140	60-140	60-140
LCS	65-135	70-130	70-130	70-130	70-130
Control Limits					

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.

** MS=Matrix Spike, MSD=MS Duplicate, RPD=Relative % Difference

SEQUOIA ANALYTICAL

Richard Herling
Project Manager

9801F42.CCC <8>





Cambria Environmental Tech.
1144 65th St., Ste. C
Oakland, CA 94608
Attention: Aubrey Cool

Client Project ID: Shell 2300 Santa Clara
Matrix: Liquid

Work Order #: 9801F42 06,08,10,11

Reported: Feb 4, 1998

QUALITY CONTROL DATA REPORT

Analyte:	1,1-Dichloroethene	Trichloroethene	Benzene	Toluene	Chloro-benzene
QC Batch#:	MS0130988240F3A	MS0130988240F3A	MS0130988240F3A	MS0130988240F3A	MS0130988240F3A
Analy. Method:	EPA 8240	EPA 8240	EPA 8240	EPA 8240	EPA 8240
Prep. Method:					
Analyst:	L. Duong	L. Duong	L. Duong	L. Duong	L. Duong
MS/MSD #:	9801C2615	9801C2615	9801C2615	9801C2615	9801C2615
Sample Conc.:	N.D.	N.D.	N.D.	N.D.	N.D.
Prepared Date:	1/26/98	1/26/98	1/26/98	1/26/98	1/26/98
Analyzed Date:	1/30/98	1/30/98	1/30/98	1/30/98	1/30/98
Instrument I.D.#:	F3	F3	F3	F3	F3
Conc. Spiked:	500 µg/L	500 µg/L	500 µg/L	500 µg/L	500 µg/L
Result:	450	490	520	520	510
MS % Recovery:	90	98	104	104	102
Dup. Result:	450	490	530	520	520
MSD % Recov.:	90	98	106	104	104
RPD:	0.0	0.0	1.9	0.0	1.9
RPD Limit:	0-25	0-25	0-25	0-25	0-25

LCS #:	LCS020298	LCS020298	LCS020298	LCS020298	LCS020298
Prepared Date:	2/2/98	1/26/98	1/26/98	1/26/98	1/26/98
Analyzed Date:	2/2/98	1/30/98	1/30/98	1/30/98	1/30/98
Instrument I.D.#:	H6	F3	F3	F3	F3
Conc. Spiked:	50 µg/L	50 µg/L	50 µg/L	50 µg/L	50 µg/L
LCS Result:	45	50	51	52	51
LCS % Recov.:	90	100	102	104	102

MS/MSD	60-140	60-140	60-140	60-140	60-140
LCS	65-135	70-130	70-130	70-130	70-130
Control Limits					

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.

** MS= Matrix Spike, MSD= MS Duplicate, RPD= Relative % Difference

SEQUOIA ANALYTICAL

Richard Herling
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 (510) 988-9600 FAX (510) 988-9673
 819 Striker Avenue, Suite 8 Sacramento, CA 95834 (916) 921-9600 FAX (916) 921-0100

Cambria Environmental Tech. Client Project ID: Shell 2300 Santa Clara
 1144 65th St., Ste. C Matrix: Liquid
 Oakland, CA 94608
 Attention: Aubrey Cool Work Order #: 9801F43 13 Reported: Feb 4, 1998

QUALITY CONTROL DATA REPORT

Analyte:	1,1-Dichloroethene	Trichloroethene	Benzene	Toluene	Chloro-benzene
QC Batch#:	MS0130988240F2A	MS0130988240F2A	MS0130988240F2A	MS0130988240F2A	MS0130988240F2A
Analy. Method:	EPA 8240	EPA 8240	EPA 8240	EPA 8240	EPA 8240
Prep. Method:					

Analyst:	M. Williams	M. Williams	M. Williams	M. Williams	M. Williams
MS/MSD #:	9801E6902	9801E6902	9801E6902	9801E6902	9801E6902
Sample Conc.:	N.D.	N.D.	N.D.	N.D.	N.D.
Prepared Date:	1/30/98	1/30/98	1/30/98	1/30/98	1/30/98
Analyzed Date:	1/30/98	1/30/98	1/30/98	1/30/98	1/30/98
Instrument I.D.#:	F2	F2	F2	F2	F2
Conc. Spiked:	50 µg/L	50 µg/L	50 µg/L	50 µg/L	50 µg/L
Result:	36	44	48	44	45
MS % Recovery:	72	88	96	88	90
Dup. Result:	41	47	52	49	51
MSD % Recov.:	82	94	104	98	102
RPD:	13	6.6	8.0	11	13
RPD Limit:	0-25	0-25	0-25	0-25	0-25

LCS #:	LCS013098	LCS013098	LCS013098	LCS013098	LCS013098
Prepared Date:	1/30/98	1/30/98	1/30/98	1/30/98	1/30/98
Analyzed Date:	1/30/98	1/30/98	1/30/98	1/30/98	1/30/98
Instrument I.D.#:	F2	F2	F2	F2	F2
Conc. Spiked:	50 µg/L	50 µg/L	50 µg/L	50 µg/L	50 µg/L
LCS Result:	36	45	51	46	47
LCS % Recov.:	72	95	102	92	94

MS/MSD	60-140	60-140	60-140	60-140	60-140
LCS	65-135	70-130	70-130	70-130	70-130
Control Limits					

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.

** MS= Matrix Spike, MSD= MS Duplicate, RPD= Relative % Difference

SEQUOIA ANALYTICAL

Richard Herling
Project Manager

9801F42.CCC <10>





SHELL OIL COMPANY
RETAIL ENVIRONMENTAL ENGINEERING - WEST

CHAIN OF CUSTODY RECORD

Serial No: _____

Date: 1.26.98

Page 1 of 3

Site Address: 2300 Santa Clara, Alameda

WIC#: 204-0072-0908

Shell Engineer:
Alex Perez

Phone No.: 510 335 5027
Fax #: 510 335 5022

Consultant Name & Address: CAMBRIA ENVIRONMENTAL
1114 65th St. Suite C, Oakland, CA 94608

Consultant Contact:
Aubrey Cool

Phone No.: 510 420-0700
Fax #: 420-9170

Comments: NOTE 5 D. TURNAROUND.

Sampled by: Aubrey K. Cool

Printed Name: Aubrey K. Cool

Analysis Required

TPH (EPA 8015 Mod. GCS)	TPH (EPA 8015 Mod. Diesel)	BTEX (EPA 8020/8021/8022) M.T.B.E.	Volatile Organics (EPA 8240)	Test for Disposal Shell 4B-28	Combination TPH, 8015 & BTEX 8020 & MTBE	Pb	Asbestos	Container Size	Preparation Used	Composite Y/N

LAB: Sequoia

CHECK ONE (X) BOX ONLY	C/I/DI	TURF AROUND TIME
G.W. Monitoring <input type="checkbox"/>	4441	24 hours <input type="checkbox"/>
Site Investigation <input checked="" type="checkbox"/>	4441	48 hours <input type="checkbox"/>
Soil Classify/Disposal <input type="checkbox"/>	4442	15 days <input type="checkbox"/> (1/annual)
Water Classify/Disposal <input type="checkbox"/>	4443	Other <input checked="" type="checkbox"/> (500Y)
Soil/Air Rem. or Sys. O & M <input type="checkbox"/>	4452	
Water Rem. or Sys. O & M <input type="checkbox"/>	4453	
Other <input type="checkbox"/>		

NOTE: Notify lab as soon as possible of 24/48 hrs. TAT.

TEST AGENCY: Alameda County

Sample ID	Date	Time	Sludge	Soil	Water	Air	No. of confs.
1 GP-A-50'	1/26	8:30	X				1
2 GP-A-90'	1/26	8:35	X				1
3 GP-A	1/26	8:45			X		5 vials 1 Liter 1 & 1/2 liter
4 GP-B-6.0'	1/26	10:18	X				1
5 GP-B 10.0'	1/26	10:24	X				1
6 GP-B	1/26	10:35			X		5 vials 1 Liter 1 & 1/2 liter
7 GP-C-6.0'	1/26	11:50	X				1
8 GP-C-100'	1/26	12:10	X				1

MATERIAL DESCRIPTION	SAMPLE CONDITION/ COMMENTS
	see attached Shell Protocol
	HOLD
	see attached Shell Protocol

Relinquished By (signature):
Aubrey K. Cool

Printed Name:
Aubrey Cool

Date: 1.26.98
Time: 10:10

Received (signature):
[Signature]

Printed Name:
EJKE ROMANO

Date: 1.26.98
Time: 10:10



SHELL OIL COMPANY
RETAIL ENVIRONMENTAL ENGINEERING - WEST

CHAIN OF CUSTODY RECORD

Date: 1-26-98

Serial No: _____

9501F42/43

Page 2 of 3

Site Address: 2300 Santa Clara, Alameda

WIC#: 204-0072-0908

Shell Engineer: Alex Perez
 Phone No.: 510 335 5027
 Fax #: 510 335 5029

Consultant Name & Address: CAMBRIA ENVIRONMENTAL
 1114 65th St. Suite C, Oakland, CA 94608

Consultant Contact: Aubrey Cool
 Phone No.: 510 420-0700
 Fax #: 420-9170

Comments:

Sampled by: Aubrey K Cool

Printed Name: Aubrey K. Cool

Analysis Required

TPH (EPA 8015 Mod. GCS)	TPH (EPA 8015 Mod. Diesel)	STEX (EPA 8020/602)	Volatile Organics (EPA 8240)	Test for Disposal Shell 4B-2.8	Combination TPH 8015 & STEX 8020 & MTBE	Pb	Asbestos	Container Size	Preparation Used	Composite Y/N
	✓		✓		✓	✓				
	✓		✓		✓	✓				
	✓		✓		✓	✓				
	✓		✓		✓	✓				
	✓		✓		✓	✓				
	✓		✓		✓	✓				
	✓		✓		✓	✓				
	✓		✓		✓	✓				
	✓		✓		✓	✓				
	✓		✓		✓	✓				

LAB: Sequoia

CHECK ONE (1) BOX ONLY	C/I/NI	DURIE AROUND TIME
G.W. Monitoring <input type="checkbox"/>	4441	24 hours <input type="checkbox"/>
Site Investigation <input checked="" type="checkbox"/>	4441	48 hours <input type="checkbox"/>
Soil Classify/Disposal <input type="checkbox"/>	4442	16 days <input type="checkbox"/> (flaming)
Water Classify/Disposal <input type="checkbox"/>	4443	Other <input checked="" type="checkbox"/> (5 DAY)
Soil/Air Rem. or Sys. O & M <input type="checkbox"/>	4452	
Water Rem. or Sys. O & M <input type="checkbox"/>	4453	
Other <input type="checkbox"/>		

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

UST AGENCY: Alameda County

Sample ID	Date	Time Sludge	Soil	Water	Air	No. of conls.	MATERIAL DESCRIPTION	SAMPLE CONDITION/ COMMENTS
6 GP-C	1/26	12:20		X		6 VOCAS 1 Liter 1 plastic		
7 GP-D-6.0'	1/26	12:30	X			1		
GP-D-10.0'	1/26	12:40	X			1		HOLD
8 GP-D	1/26	13:00		X		6 VOCAS 2 Liters 1 plastic		
9 GP-E-6.0'	1/26	13:05	X			1		
GP-E-10.0'	1/26	13:30	X			1		See attached Shell Protocol
10 GP-E	1/26	13:45		X		6 VOCAS 1 Liter 1 plastic		
11 GP-H	1/26	16:50		X		6 VOCAS 1 Liter 1 plastic		

Relinquished By (signature): Aubrey K Cool

Printed Name: Aubrey Cool

Date: 1-28-98
 Time: 10:10

Received (signature): [Signature]

Printed Name: EJIVE EROMON

Date: 1-28-98
 Time: 16:40

Relinquished By (signature): _____

Printed Name: _____

Date: _____
 Time: _____

Received (signature): _____

Printed Name: _____

Date: _____
 Time: _____

Relinquished By (signature): [Signature]

Printed Name: _____

Date: _____
 Time: _____

Received (signature): [Signature]

Printed Name: ASAD

Date: 1/28/98
 Time: 17:15

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: 9801F42/43

Date: 1-26-98
Page 3 of 3

Site Address: 2300 Santa Clara, Alameda

WIC#: 204-0072-0908

Shell Engineer: Alex Perez
Phone No.: 510 335 5027
Fax #: 510 335 5029

Consultant Name & Address: CAMBRIA ENVIRONMENTAL
1114 65th St. Suite C, Oakland, CA 94608

Consultant Contact: Aubrey Cool
Phone No.: 510 420-0700
Fax #: 420-9170

Comments:

Sampled by: Aubrey K Cool

Printed Name: Aubrey K. Cool

Analysis Required

TPH (EPA 8015 Mod. Gas)	TPH (EPA 8015 Mod. Diesel)	BTEX (EPA 8020/6020)	Volatile Organics (EPA 8240)	Test for Disposal Shell 4B-28	Combination TPH 8015 & BTEX 8020 & MTOE	Pb	Asbestos	Container Size	Preparation Used	Composite Y/N
	✓		✓		✓	✓				
		✓	✓		✓	✓				
			✓		✓	✓				
				✓	✓	✓				
					✓	✓				
					✓	✓				
				✓	✓	✓				

LAB: Sequoia

CHECK ONE (1) BOX ONLY	CI/DI	TURN AROUND TIME
G.W. Monitoring <input type="checkbox"/>	4461	24 hours <input type="checkbox"/>
Site Investigation <input checked="" type="checkbox"/>	4441	48 hours <input type="checkbox"/>
Soil Classify/Disposal <input type="checkbox"/>	4442	16 days <input type="checkbox"/> (standard)
Water Classify/Disposal <input type="checkbox"/>	4443	Other <input checked="" type="checkbox"/> <u>15 DAY</u>
Soil/Air Rem. or Sys. O & M <input type="checkbox"/>	4452	NOTE: Notify Lab as soon as possible of 24/48 hrs. (AT)
Water Rem. or Sys. O & M <input type="checkbox"/>	4453	
Other <input type="checkbox"/>		

UST AGENCY: Alameda County

Sample ID	Date	TIME	Soil	Water	Air	No. of conls.
12 GP-F-5.0'	1-26-98	14:20	X			1
13 GP-F-10.0'	1-26-98	14:30	X			1
14 GP-F	1-26-98	14:35		X		6 VOCs 2 Liters 1 plastic
15 GP-G	1-26-98	16:35		X		6 VOCs 1 Liter 1 plastic
16 GP-G-7.0'	1-26-98	16:00	X			1
GP-G-9.5'	1-26-98	16:05	X			1
GP-H-6.0'	1-26-98	16:30	X			1
GP-H-9.5'	1-26-98	16:40	X			1

MATERIAL DESCRIPTION	SAMPLE CONDITION/ COMMENTS
	HOLD
	HOLD
	See attached Shell Protocol

Relinquished By (signature): Aubrey K Cool
Printed Name: Aubrey Cool
Date: 1-28-98
Time: 10:10

Received (signature): [Signature]
Printed Name: ERIK ESMOND
Date: 1-28-98
Time: 11:50

Relinquished By (signature): [Signature]
Printed Name: NRD
Date: 1/27/98
Time: 12:10



Sequoia
Analytical

680 Chesapeake Drive
404 N. Wiget Lane
819 Striker Avenue, Suite 8

Redwood City, CA 94063
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Sacramento, CA 95834

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(916) 921-9600

FAX (650) 364-9233
FAX (510) 988-9673
FAX (916) 921-0100

Cambria 1144 65th St. Suite C Oakland, CA 94608 Attention: Aubrey Cool	Client Proj. ID: Shell 2300 Santa Clara Lab Proj. ID: 9801F42	Received: 01/28/98 Reported: 02/04/98
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LABORATORY NARRATIVE

In order to properly interpret this report, it must be reproduced in its entirety. This report contains a total of 102 pages including the laboratory narrative, sample results, quality control, and related documents as required (cover page, COC, raw data, etc.).

SEQUOIA ANALYTICAL


Richard Herling
Project Manager





Sequoia Analytical

680 Chesapeake Drive
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FAX (916) 921-0100

Cambria
1144 65th St. Suite C
Oakland, CA 94608
Attention: Aubrey Cool

Project: Shell 2300 Santa Clara

Enclosed are the results from samples received at Sequoia Analytical on January 28, 1998.
The requested analyses are listed below:

<u>SAMPLE #</u>	<u>SAMPLE DESCRIPTION</u>	<u>DATE COLLECTED</u>	<u>TEST METHOD</u>
9802318 -01	SOLID, GP-A 5.0'	01/26/98	TPHD_S Extractable TPH
9802318 -02	LIQUID, GP-A	01/26/98	TPHD_W Extractable TPH
9802318 -03	SOLID, GP-B 6.0'	01/26/98	TPHD_S Extractable TPH
9802318 -04	LIQUID, GP-B	01/26/98	TPHD_W Extractable TPH
9802318 -05	LIQUID, GP-C	01/26/98	TPHD_W Extractable TPH
9802318 -06	LIQUID, GP-G	01/26/98	TPHD_W Extractable TPH
9802318 -07	LIQUID, GP-G 7.0'	01/26/98	TPHD_S Extractable TPH
9802318 -08	SOLID, GP-H 6.0'	01/26/98	8240 Volatile Organic Co
9802318 -08	SOLID, GP-H 6.0'	01/26/98	TPHD_S Extractable TPH
9802318 -09	SOLID, GP-H-9.5'	01/26/98	8240 Volatile Organic Co
9802318 -09	SOLID, GP-H-9.5'	01/26/98	TPHD_S Extractable TPH

Please contact me if you have any questions. In the meantime, thank you for the opportunity to work with you on this project.

Very truly yours,

SEQUOIA ANALYTICAL

Project Manager





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

Client Proj. ID: Shell 2300 Santa Clara
Sample Descript: GP-A 5.0'
Matrix: SOLID
Analysis Method: EPA 8015 Mod
Lab Number: 9802318-01

Sampled: 01/26/98
Received: 01/28/98
Extracted: 02/10/98
Analyzed: 02/10/98
Reported: 02/11/98

Attention: Aubrey Cool

GC Batch Number: GC0205980HBPEXB
Instrument ID: GCHP4B

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TEPH as Diesel	1.0	5.7
Chromatogram Pattern: Unidentified HC		C9-C24
Surrogates	Control Limits %	% Recovery
n-Pentacosane (C25)	50 150	81

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

SEQUOIA ANALYTICAL - ELAP #1210

Richard Herling
Project Manager





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

Client Proj. ID: Shell 2300 Santa Clara
Sample Descript: GP-A
Matrix: LIQUID
Analysis Method: EPA 8015 Mod
Lab Number: 9802318-02

Sampled: 01/26/98
Received: 01/28/98
Extracted: 02/09/98
Analyzed: 02/10/98
Reported: 02/11/98

Attention: Aubrey Cool

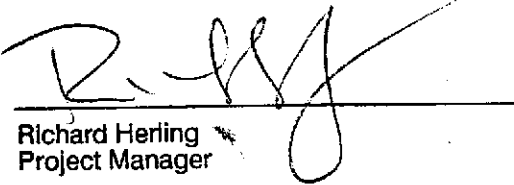
QC Batch Number: GC0209980HBPEXA
Instrument ID: GCHP4A

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit ug/L	Sample Results ug/L
TEPH as Diesel	50	120
Chromatogram Pattern: Unidentified HC		C9-C24
Surrogates	Control Limits %	% Recovery
n-Pentacosane (C25)	50 150	92

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

SEQUOIA ANALYTICAL - ELAP #1210


Richard Hering
Project Manager





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

Client Proj. ID: Shell 2300 Santa Clara
Sample Descript: GP-B 6.0'
Matrix: SOLID
Analysis Method: EPA 8015 Mod
Lab Number: 9802318-03

Sampled: 01/26/98
Received: 01/28/98
Extracted: 02/09/98
Analyzed: 02/10/98
Reported: 02/11/98

Attention: Aubrey Cool

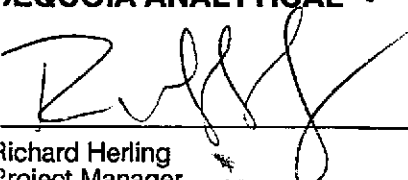
C Batch Number: GC0205980HBPEXB
Instrument ID: GCHP4B

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TEPH as Diesel Chromatogram Pattern: Unidentified HC	1.0	6.9 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


Richard Herling
Project Manager





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Cambria
1144 65th St. Suite C
Oakland, CA 94608
Attention: Aubrey Cool

Client Proj. ID: Shell 2300 Santa Clara
Sample Descript: GP-B
Matrix: LIQUID
Analysis Method: EPA 8015 Mod
Lab Number: 9802318-04

Sampled: 01/26/98
Received: 01/28/98
Extracted: 02/09/98
Analyzed: 02/10/98
Reported: 02/11/98

QC Batch Number: GC0209980HBPEXA
Instrument ID: GCHP4A

Total Extractable Petroleum Hydrocarbons (TEPH)

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

Richard Herling
Project Manager





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

Client Proj. ID: Shell 2300 Santa Clara
Sample Descript: GP-C
Matrix: LIQUID
Analysis Method: EPA 8015 Mod
Lab Number: 9802318-05

Sampled: 01/26/98
Received: 01/28/98
Extracted: 02/09/98
Analyzed: 02/10/98
Reported: 02/11/98

Attention: Aubrey Cool

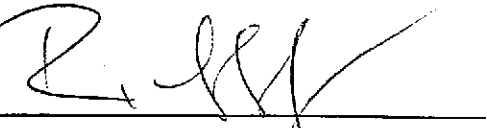
GC Batch Number: GC0209980HBPEXA
Instrument ID: GCHP4A

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit ug/L	Sample Results ug/L
TEPH as Diesel Chromatogram Pattern:	50	N.D.
Surrogates	Control Limits %	% Recovery
n-Pentacosane (C25)	50 150	84

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

SEQUOIA ANALYTICAL - ELAP #1210


Richard Herling
Project Manager





Cambria 1144 65th St. Suite C Oakland, CA 94608	Client Proj. ID: Shell 2300 Santa Clara Sample Descript: GP-G Matrix: LIQUID Analysis Method: EPA 8015 Mod Lab Number: 9802318-06	Sampled: 01/26/98 Received: 01/28/98 Extracted: 02/09/98 Analyzed: 02/10/98 Reported: 02/11/98
Attention: Aubrey Cool		

QC Batch Number: GC0209980HBPEXA
Instrument ID: GCHP4A

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit ug/L	Sample Results ug/L
TEPH as Diesel Chromatogram Pattern:	50	N.D.
Surrogates	Control Limits %	% Recovery
n-Pentacosane (C25)	50 150	80

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

SEQUOIA ANALYTICAL - ELAP #1210



Richard Herling
Project Manager





mbria
44 65th St. Suite C
kland, CA 94608

Client Proj. ID: Shell 2300 Santa Clara
Sample Descript: GP-G 7.0'
Matrix: LIQUID
Analysis Method: EPA 8015 Mod
Lab Number: 9802318-07

Sampled: 01/26/98
Received: 01/28/98
Extracted: 02/09/98
Analyzed: 02/10/98
Reported: 02/11/98

ention: Aubrey Cool

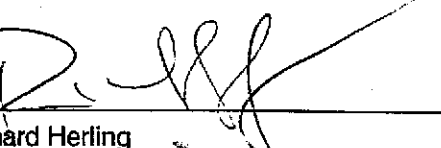
Batch Number: GC0205980HBPEXB
ument ID: GCHP4B

Total Extractable Petroleum Hydrocarbons (TEPH)

alyte	Detection Limit mg/Kg	Sample Results mg/Kg
PH as Diesel	1.0	6.0
romatogram Pattern: identified HC		C9-C24
rogates	Control Limits %	% Recovery
Pentacosane (C25)	50 150	80

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

SEQUOIA ANALYTICAL - ELAP #1210


David Herling
ect Manager





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

Attention: Aubrey Cool

Client Proj. ID: Shell 2300 Santa Clara
Sample Descript: GP-H 6.0'
Matrix: SOLID
Analysis Method: EPA 8240
Lab Number: 9802318-08

Sampled: 01/26/98
Received: 01/28/98
Extracted: 02/08/98
Analyzed: 02/08/98
Reported: 02/11/98

QC Batch Number: MS0208988240EXA
Instrument ID: F2

Volatile Organics (EPA 8240)

Analyte	Detection Limit ug/Kg	Sample Results ug/Kg
Acetone	500	N.D.
Benzene	100	N.D.
Bromodichloromethane	100	N.D.
Bromoform	100	N.D.
Bromomethane	100	N.D.
2-Butanone	500	N.D.
Carbon disulfide	100	N.D.
Carbon tetrachloride	100	N.D.
Chlorobenzene	100	N.D.
Chloroethane	100	N.D.
2-Chloroethyl vinyl ether	500	N.D.
Chloroform	100	N.D.
Chloromethane	100	N.D.
Dibromochloromethane	100	N.D.
1,1-Dichloroethane	100	N.D.
1,2-Dichloroethane	100	N.D.
1,1-Dichloroethene	100	N.D.
cis-1,2-Dichloroethene	100	N.D.
trans-1,2-Dichloroethene	100	N.D.
1,2-Dichloropropane	100	N.D.
cis-1,3-Dichloropropene	100	N.D.
trans-1,3-Dichloropropene	100	N.D.
Ethylbenzene	100	N.D.
2-Hexanone	500	N.D.
Methylene chloride	250	N.D.
4-Methyl-2-pentanone	500	N.D.
Styrene	100	N.D.
1,1,2,2-Tetrachloroethane	100	N.D.
Tetrachloroethene	100	N.D.
Toluene	100	N.D.
1,1,1-Trichloroethane	100	N.D.
1,1,2-Trichloroethane	100	N.D.
Trichloroethene	100	N.D.
Trichlorofluoromethane	100	N.D.
Vinyl acetate	250	N.D.
Vinyl chloride	100	N.D.
Total Xylenes	500	N.D.





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Cambria 1144 65th St. Suite C Oakland, CA 94608	Client Proj. ID: Shell 2300 Santa Clara Sample Descript: GP-H 6.0' Matrix: SOLID Analysis Method: EPA 8240 Lab Number: 9802318-08	Sampled: 01/26/98 Received: 01/28/98 Extracted: 02/08/98 Analyzed: 02/08/98 Reported: 02/11/98
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GC Batch Number: MS0208988240EXA
Instrument ID: F2

Analyte	Detection Limit ug/Kg	Sample Results ug/Kg
Surrogates	Control Limits %	% Recovery
1,2-Dichloroethane-d4	70	111
Toluene-d8	81	110
4-Bromofluorobenzene	74	102

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

SEQUOIA ANALYTICAL - ELAP #1210


 Richard Herling
 Project Manager





Cambria 1144 65th St. Suite C Oakland, CA 94608	Client Proj. ID: Shell 2300 Santa Clara Sample Descript: GP-H 6.0' Matrix: SOLID Analysis Method: EPA 8015 Mod Lab Number: 9802318-08	Sampled: 01/26/98 Received: 01/28/98 Extracted: 02/09/98 Analyzed: 02/10/98 Reported: 02/11/98
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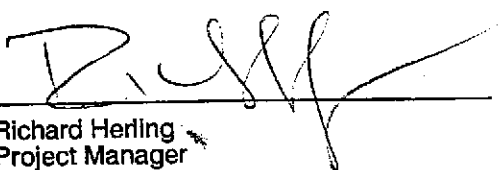
QC Batch Number: GC0205980HBPEXB
Instrument ID: GCHP4B

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TEPH as Diesel Chromatogram Pattern: Unidentified HC	1.0	3.1
		C9-C24
Surrogates n-Pentacosane (C25)	Control Limits % 50 150	% Recovery 78

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

SEQUOIA ANALYTICAL - ELAP #1210


Richard Herling
Project Manager





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

Client Proj. ID: Shell 2300 Santa Clara
Sample Descript: GP-H-9.5'
Matrix: SOLID
Analysis Method: EPA 8240
Lab Number: 9802318-09

Sampled: 01/26/98
Received: 01/28/98
Extracted: 02/10/98
Analyzed: 02/10/98
Reported: 02/11/98

Attention: Aubrey Cool

IC Batch Number: MS0208988240EXA
Instrument ID: F2

Volatile Organics (EPA 8240)

Analyte	Detection Limit ug/Kg	Sample Results ug/Kg
Acetone	500	N.D.
Benzene	100	N.D.
Bromodichloromethane	100	N.D.
Bromoform	100	N.D.
Bromomethane	100	N.D.
2-Butanone	500	N.D.
Carbon disulfide	100	N.D.
Carbon tetrachloride	100	N.D.
Chlorobenzene	100	N.D.
Chloroethane	100	N.D.
2-Chloroethyl vinyl ether	500	N.D.
Chloroform	100	N.D.
Chloromethane	100	N.D.
Dibromochloromethane	100	N.D.
1,1-Dichloroethane	100	N.D.
1,2-Dichloroethane	100	N.D.
1,1-Dichloroethene	100	N.D.
cis-1,2-Dichloroethene	100	N.D.
trans-1,2-Dichloroethene	100	N.D.
1,2-Dichloropropane	100	N.D.
cis-1,3-Dichloropropene	100	N.D.
trans-1,3-Dichloropropene	100	N.D.
Ethylbenzene	100	N.D.
2-Hexanone	500	N.D.
Methylene chloride	250	N.D.
4-Methyl-2-pentanone	500	N.D.
Styrene	100	N.D.
1,1,2,2-Tetrachloroethane	100	N.D.
Tetrachloroethene	100	N.D.
Toluene	100	N.D.
1,1,1-Trichloroethane	100	N.D.
1,1,2-Trichloroethane	100	N.D.
Trichloroethene	100	N.D.
Trichlorofluoromethane	100	N.D.
Vinyl acetate	250	N.D.
Vinyl chloride	100	N.D.
Total Xylenes	100	N.D.





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FAX (916) 921-0100


Cambria 1144 65th St. Suite C Oakland, CA 94608 Attention: Aubrey Cool	Client Proj. ID: Shell 2300 Santa Clara Sample Descript: GP-H-9.5' Matrix: SOLID Analysis Method: EPA 8240 Lab Number: 9802318-09	Sampled: 01/26/98 Received: 01/28/98 Extracted: 02/10/98 Analyzed: 02/10/98 Reported: 02/11/98
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QC Batch Number: MS0208988240EXA
Instrument ID: F2

Analyte	Detection Limit ug/Kg	Sample Results ug/Kg
Surrogates	Control Limits %	% Recovery
1,2-Dichloroethane-d4	70	121
Toluene-d8	81	117
4-Bromofluorobenzene	74	121

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

SEQUOIA ANALYTICAL - ELAP #1210



Richard Herling
Project Manager





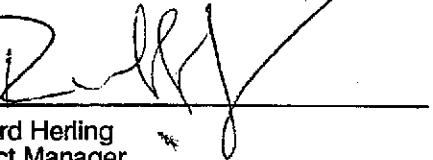
Santa Clara 65th St. Suite C Redwood City, CA 94608 Analyst: Aubrey Cool Batch Number: GC0205980HBPEXB Instrument ID: GCHP4B	Client Proj. ID: Shell 2300 Santa Clara Sample Descript: GP-H-9.5' Matrix: SOLID Analysis Method: EPA 8015 Mod Lab Number: 9802318-09	Sampled: 01/26/98 Received: 01/28/98 Extracted: 02/09/98 Analyzed: 02/10/98 Reported: 02/11/98
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Total Extractable Petroleum Hydrocarbons (TEPH)

Hydrocarbon Type	Detection Limit mg/Kg	Sample Results mg/Kg
As Diesel	1.0	5.4
Chromatogram Pattern: Identified HC		C9-C24
Control Limits %	50	150
% Recovery		101

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

SEQUOIA ANALYTICAL - ELAP #1210


 David Herling
 Contact Manager

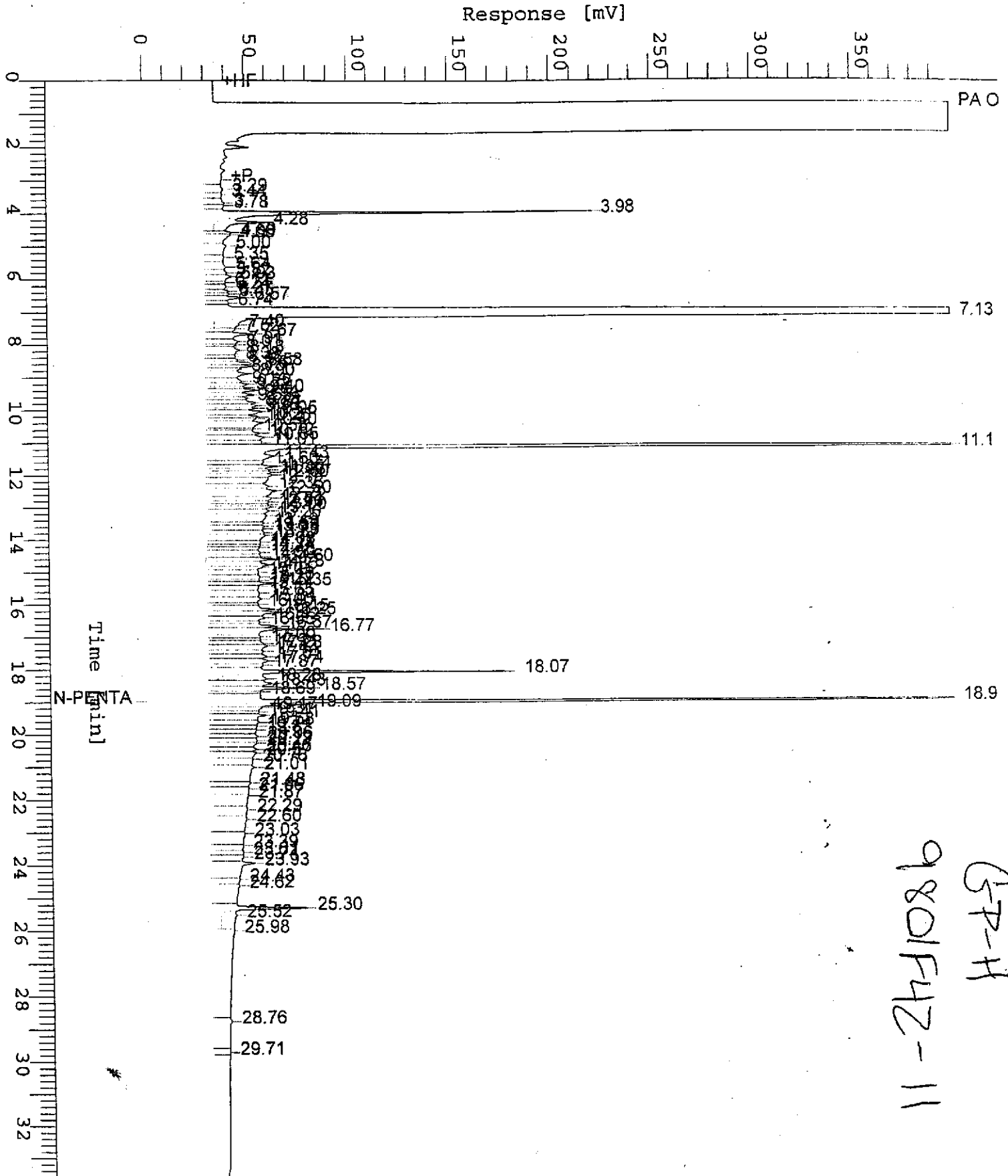


Chromatogram

Sample Name : DW9801F42-11 (500:1)
FileName : S:\GHP_05\0201\129B028.raw
Method : TPH05A
Start Time : 0.00 min
Scale Factor: 0.0

End Time : 33.65 min
Plot Offset: 0 mV

Sample #: GP-H
Date : 1/30/98 03:57
Time of Injection: 1/30/98 03:23
Low Point : 0.00 mV
Plot Scale: 400.0 mV
Page 1 of 1
High Point : 400.00 mV



GP-H
9801F42-11



Cambria Environmental Tech.
1144 65th St., Ste. C
Oakland, CA 94608
Attention: Aubrey Cool

Client Project ID: Shell 2300 Santa Clara
Matrix: Solid

Work Order #: 9802318 08

Reported: Feb 13, 1998

QUALITY CONTROL DATA REPORT

Analyte:	1,1-Dichloroethene	Trichloroethene	Benzene	Toluene	Chloro-benzene
QC Batch#:	MS0208988240EXA	MS0208988240EXA	MS0208988240EXA	MS0208988240EXA	MS0208988240EXA
Analy. Method:	EPA 8240	EPA 8240	EPA 8240	EPA 8240	EPA 8240
Prep. Method:					

Analyst:	L. Zhu	L. Zhu	L. Zhu	L. Zhu	L. Zhu
MS/MSD #:	980231808	980231808	980231808	980231808	980231808
Sample Conc.:	N.D.	N.D.	N.D.	N.D.	N.D.
Prepared Date:	2/8/98	2/8/98	2/8/98	2/8/98	2/8/98
Analyzed Date:	2/8/98	2/8/98	2/8/98	2/8/98	2/8/98
Instrument I.D.#:	F3	F3	F3	F3	F3
Conc. Spiked:	2500 µg/Kg	2500 µg/Kg	2500 µg/Kg	2500 µg/Kg	2500 µg/Kg
Result:	1650	1980	2010	2160	2150
MS % Recovery:	66	79	80	86	86
Dup. Result:	1630	2000	2020	2160	2180
MSD % Recov.:	65	80	81	86	87
RPD:	1.2	1.0	0.50	0.0	1.4
RPD Limit:	0-25	0-25	0-25	0-25	0-25

LCS #:	LCS020898	LCS020898	LCS020898	LCS020898	LCS020898
Prepared Date:	2/8/98	2/8/98	2/8/98	2/8/98	2/8/98
Analyzed Date:	2/8/98	2/8/98	2/8/98	2/8/98	2/8/98
Instrument I.D.#:	F3	F3	F3	F3	F3
Conc. Spiked:	2500 µg/Kg	2500 µg/Kg	2500 µg/Kg	2500 µg/Kg	2500 µg/Kg
LCS Result:	1800	2180	2140	2280	2240
LCS % Recov.:	72	87	86	91	90

MS/MSD	60-140	60-140	60-140	60-140	60-140
LCS	65-135	70-130	70-130	70-130	70-130
Control Limits					

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.

** MS=Matrix Spike, MSD=MS Duplicate, RPD=Relative % Difference

SEQUOIA ANALYTICAL

Richard Herling
Project Manager





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FAX (916) 921-0100

Cambria Environmental Tech.
1144 65th St., Ste. C
Oakland, CA 94608
Attention: Aubrey Cool

Client Project ID: Shell 2300 Santa Clara
Matrix: Solid

Work Order #: 9802318 09

Reported: Feb 13, 1998

QUALITY CONTROL DATA REPORT

Analyte:	1,1-Dichloroethene	Trichloroethene	Benzene	Toluene	Chloro- benzene
QC Batch#:	MS0208988240EXA	MS0208988240EXA	MS0208988240EXA	MS0208988240EXA	MS0208988240EXA
Analy. Method:	EPA 8240	EPA 8240	EPA 8240	EPA 8240	EPA 8240
Prep. Method:					

	L. Zhu	L. Zhu	L. Zhu	L. Zhu	L. Zhu
MS/MSD #:	980231808	980231808	980231808	980231808	980231808
Sample Conc.:	N.D.	N.D.	N.D.	N.D.	N.D.
Prepared Date:	2/8/98	2/8/98	2/8/98	2/8/98	2/8/98
Analyzed Date:	2/8/98	2/8/98	2/8/98	2/8/98	2/8/98
Instrument I.D.#:	F3	F3	F3	F3	F3
Conc. Spiked:	2500 µg/Kg	2500 µg/Kg	2500 µg/Kg	2500 µg/Kg	2500 µg/Kg
Result:	1650	1980	2010	2160	2150
MS % Recovery:	66	79	80	86	86
Dup. Result:	1630	2000	2020	2160	2180
MSD % Recov.:	65	80	81	86	87
RPD:	1.2	1.0	0.5	0.0	1.4
RPD Limit:	0-25	0-25	0-25	0-25	0-25

LCS #:	LCS021098	LCS021098	LCS021098	LCS021098	LCS021098
Prepared Date:	2/10/98	2/10/98	2/10/98	2/10/98	2/10/98
Analyzed Date:	2/10/98	2/10/98	2/10/98	2/10/98	2/10/98
Instrument I.D.#:	F2	F2	F2	F2	F2
Conc. Spiked:	2500 µg/Kg	2500 µg/Kg	2500 µg/Kg	2500 µg/Kg	2500 µg/Kg
LCS Result:	1700	2100	2500	2300	2200
LCS % Recov.:	68	84	100	92	88

MS/MSD	60-140	60-140	60-140	60-140	60-140
LCS	65-135	70-130	70-130	70-130	70-130
Control Limits					

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.

** MS=Matrix Spike, MSD=MS Duplicate, RPD=Relative % Difference

SEQUOIA ANALYTICAL

Richard Herling
Project Manager

9802318.CCC <2>





**Sequoia
Analytical**

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Cambria Environmental Tech.
1144 65th St., Ste. C
Oakland, CA 94608
Attention: Aubrey Cool

Client Project ID: Shell 2300 Santa Clara
Matrix: Solid

Work Order #: 9802318 01

Reported: Feb 13, 1998

QUALITY CONTROL DATA REPORT

Analyte: Diesel

QC Batch#: GC0205980HBPEXB
Analy. Method: EPA 8015M
Prep. Method: EPA 3550

Analyst: A. Kaushanskaya
MS/MSD #: BLK020598
Sample Conc.: N.D.
Prepared Date: 2/5/98
Analyzed Date: 2/5/98
Instrument I.D.#: GCHP19B
Conc. Spiked: 25 mg/Kg

Result: 18
MS % Recovery: 72

Dup. Result: 20
MSD % Recov.: 80

RPD: 11
RPD Limit: 0-50

LCS #: BLK021098

Prepared Date: 2/10/98
Analyzed Date: 2/10/98
Instrument I.D.#: GCHP4A
Conc. Spiked: 25 mg/Kg

LCS Result: 18
LCS % Recov.: 72

MS/MSD 50-150
LCS 60-140
Control Limits

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

Richard Herling
Project Manager

** MS=Matrix Spike, MSD=MS Duplicate, RPD=Relative % Difference

9802318.CCC <3>





**Sequoia
Analytical**

680 Chesapeake Drive
404 N. Wiget Lane
819 Striker Avenue, Suite 8

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

(650) 364-9600
(510) 988-9600
(916) 921-9600

FAX (650) 364-9233
FAX (510) 988-9673
FAX (916) 921-0100

Cambria Environmental Tech.
1144 65th St., Ste. C
Oakland, CA 94608
Attention: Aubrey Cool

Client Project ID: Shell 2300 Santa Clara
Matrix: Solid

Work Order #: 982318 03, 07, 08, 09

Reported: Feb 13, 1998

QUALITY CONTROL DATA REPORT

Analyte: Diesel

QC Batch#: GC0206980HBPEXB
Analy. Method: EPA 8015M
Prep. Method: EPA 3550

Analyst: A. Porter
MS/MSD #: BLK020698
Sample Conc.: N.D.
Prepared Date: 2/6/98
Analyzed Date: 2/6/98
Instrument I.D.#: GCHP4B
Conc. Spiked: 25 mg/Kg

Result: 18
MS % Recovery: 72

Dup. Result: 15
MSD % Recov.: 60

RPD: 11
RPD Limit: 0-50

LCS #: BLK021098

Prepared Date: 2/10/98
Analyzed Date: 2/10/98
Instrument I.D.#: GCHP4A
Conc. Spiked: 25 mg/Kg

LCS Result: 19
LCS % Recov.: 76

MS/MSD 50-150
LCS 60-140
Control Limits

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

Richard Herling
Richard Herling
Project Manager

** MS=Matrix Spike, MSD=MS Duplicate, RPD=Relative % Difference

9802318.CCC <4>





SHELL OIL COMPANY
RETAIL ENVIRONMENTAL ENGINEERING - WEST

CHAIN OF CUSTODY RECORD

Date: 1.26.98

Serial No: 9581F42/13

Page 1 of 3

Site Address: 2300 Santa Clara, Alameda

WIC#: 204-0072-0908

Shell Engineer:
Alex Perez

Phone No.: 510 335 5027
Fax #: 510 335 6620

Consultant Name & Address: **CAMBRIA ENVIRONMENTAL**
1111 65th St. Suite C, Oakland, CA 94608

Consultant Contact:
Aubrey Cool

Phone No.: 510 420-0700
Fax #: 420-9170

Comments: NOTE 5 D. TURNAROUND.

Sampled by: Aubrey K Cool

Printed Name: Aubrey K. Cool

Analysis Required

TPH (EPA 8015 Mod. Gas)	TPH (EPA 8015 Mod. Diesel)	SOX (EPA 8020/6020 MATS)	Volatile Organics (EPA 8210)	Test for Disposal Shell 48-28	Combination TPH, SOX & SOX 8020 & MATS	Pb	Asbestos	Container Size	Preparation Used	Composite Y/N

LAB: Sequoia

CHECK ONE (S) BOX ONLY	C/I/DI	TURN AROUND TIME
G.W. Monitoring	<input type="checkbox"/> 4441	24 hours <input type="checkbox"/>
Site Investigation	<input checked="" type="checkbox"/> 4441	48 hours <input type="checkbox"/>
Soil Cleanup/Disposal	<input type="checkbox"/> 4442	16 days <input type="checkbox"/> (Optional)
Water Cleanup/Disposal	<input type="checkbox"/> 4443	Other <input checked="" type="checkbox"/> 5014
Soil/Air Rem. or Syst. O & M	<input type="checkbox"/> 4452	NOTE: Hasty jobs as soon as Possible at 24/48 hrs. TAT.
Water Rem. or Syst. O & M	<input type="checkbox"/> 4453	
Other	<input type="checkbox"/>	

TEST AGENCY: Alameda County

Sample ID	Date	Time Sludge	Soil	Water	Air	No. of conds.
1 GP-A-50'	1/26	8:30	X			1
2 GP-A-90'	1/26	8:35	X			1
3 GP-A	1/26	8:45		X		5 Vials 1 Liter 1 8 oz
4 GP-B-60'	1/26	10:18	X			1
5 GP-B-10.0'	1/26	10:24	X			1
6 GP-B	1/26	10:35		X		5 Vials 1 Liter 1 8 oz
7 GP-C-6.0'	1/26	11:50	X			1
8 GP-C-100'	1/26	12:10	X			1

MATERIAL DESCRIPTION	SAMPLE CONDITION/ COMMENTS
	see attached Shell Protocol
	3 DAY TAT
	see attached Shell Protocol

Relinquished By (signature): Aubrey K Cool
Relinquished By (signature):
Relinquished By (signature):

Printed Name: Aubrey Cool
Printed Name:
Printed Name:

Date: 1-25-98
Time: 10:16
Date:
Time:
Date:
Time:

Received (signature):
Received (signature):
Received (signature):

Printed Name: EDJKE ROMANU
Printed Name:
Printed Name:

Date:
Time:
Date:
Time:



SHELL OIL COMPANY
RETAIL ENVIRONMENTAL ENGINEERING - WEST

CHAIN OF CUSTODY RECORD

Serial No: 9601542/43

Date: 1-26-98

Page 2 of 3

Silo Address: 2300 Santa Clara, Alameda

WICH: 204-0072-0908

Shell Engineer:
Alex Perez

Phone No.:
510 335 5027
Fax #: 510 335 5029

Consultant Name & Address: CAMBRIA ENVIRONMENTAL
1111 65th St. Suite C, Oakland, CA 94608

Consultant Contact:
Aubrey Cool

Phone No.: 510 420-0700
Fax #: 420-9170

Comments:

Sampled by: Aubrey K Cool

Printed Name: Aubrey K. Cool

Analysis Required

LAB: Sequoia

CHECK ONE () BOX ONLY	CY/DI	TURN AROUND TIME
G.W. Monitoring <input type="checkbox"/>	4411	24 hour <input type="checkbox"/>
Site Investigation <input checked="" type="checkbox"/>	4441	48 hour <input type="checkbox"/>
Soil Classify/Diagnose <input type="checkbox"/>	4442	16 days <input type="checkbox"/> (Normal)
Water Classify/Diagnose <input type="checkbox"/>	4443	Other <input checked="" type="checkbox"/> 5 DAY
Soil/Air Rest. or Sys. O & M <input type="checkbox"/>	4452	NOTE: Notify lab as soon as possible at 24/48 hr. Int. Lab.
Water Rest. or Sys. O & M <input type="checkbox"/>	4453	
Other <input type="checkbox"/>		

TEST AGENCY: Alameda County

Sample ID	Date	Time Sludge	Soil	Water	Air	No. of conds.	TPH (EPA 8015 Mod. GC)	TPH (EPA 8015 Mod. Diesel)	STEX (EPA 8020/6020)	Volatile Organics (EPA 8210)	Test for Disposal Shell 4B-2.8	Combination TPH, B15 & BTEX 8020 & M T B 5	Pb	Asbestos	Container Size	Preparation Used	Composite Y/N
6 GP-C	1/26	12:20		X		6 VOA's 1 Liter 1 plastic	✓	✓	✓	✓	✓	✓	✓				
7 GP-D-6.0'	1/26	12:30	X			1	✓	✓	✓	✓	✓	✓	✓				
GP-D-10.0'	1/26	12:40	X			1	✓	✓	✓	✓	✓	✓	✓				
8 GP-D	1/26	13:00		X		6 VOA's 2 Liters 1 plastic	✓	✓	✓	✓	✓	✓	✓				
9 GP-E-6.0'	1/26	13:15	X			1	✓	✓	✓	✓	✓	✓	✓				Y
GP-E-10.0'	1/26	13:30	X			1	✓	✓	✓	✓	✓	✓	✓				
10 GP-E	1/26	13:45		X		6 VOA's 1 Liter 1 plastic	✓	✓	✓	✓	✓	✓	✓				
11 GP-H	1/26	16:50		X		6 VOA's 1 Liter 1 plastic	✓	✓	✓	✓	✓	✓	✓				

MATERIAL DESCRIPTION	SAMPLE CONDITION/ COMMENTS
	HOLD
	See attached Shell Protocol

Requested By (signature): Aubrey K Cool
 Requested By (signature): [Signature]
 Requested By (signature): [Signature]

Printed Name: Aubrey Cool
 Printed Name:
 Printed Name:

Date: 1-26-98
 Time: 10:10
 Date:
 Time:
 Date:
 Time:

Received (signature): [Signature]
 Received (signature): [Signature]
 Received (signature): [Signature]

Printed Name: EJIKI BOMON
 Printed Name:
 Printed Name: ABAD

Date: 1-28-98
 Time: 15:00
 Date:
 Time:
 Date: 1/28/98
 Time: 11:15

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: 1-26-98

Page 3 of 3

Site Address: 2300 Santa Clara, Alameda

WIC#: 204-0072-0908

Shell Engineer:

Alex Perez

Phone No.:

510 335 5027

Fax #: 510 335 5029

Consultant Name & Address: CAMBRIA ENVIRONMENTAL

1111 65th St. Suite C, Oakland, CA 94608

Consultant Contact:

Aubrey Cool

Phone No.:

510 420-0700

Fax #: 510-9170

Comments: J

Sampled by: Aubrey K Cool

Printed Name: Aubrey K. Cool

Analysis Required

LAB: Sequoia

CHECK ONE (1) BOX ONLY

CI/DI

TURN AROUND TIME

G.W. Monitoring

4401

24 hours

Site Investigation

4401

48 hours

Soil Classify/Disposal

4402

16 days (standard)

Water Classify/Disposal

4403

Other 5 DAY

Soil/Air Rem. or Sys. O & M

4452

NOTE: Notify Lab as soon as possible of 24/48 hr. LAT.

Water Rem. or Sys. O & M

4453

Other

TEST AGENCY: Alameda County

Sample ID	Date	TIME (hr:min)	Soil	Water	Air	No. of conds.	TPH (EPA 8015 Mod. G03)	TPH (EPA 8015 Mod. Diesel)	STEX (EPA 8020/602)	Volatile Organics (EPA 8240)	Test for Disposal Shell 4B-28	Combination TPH 8015 & STEX 8020 & MTBE	Pb	Asbestos	Container Size	Preparation Used	Composite Y/N	MATERIAL DESCRIPTION	SAMPLE CONDITION/ COMMENTS	
12 GP-F-5.0'	1-26-98	14:20	X			1		✓		✓		✓	✓							
GP-F-10.0'	1-26-98	14:30	X			1														HOLD
13 GP-F	1-26-98	14:35		X		2 Liters 1 plastic		✓		✓		✓	✓							
14 GP-G	1-26-98	16:35		X		6 VOA's 1 Liter 1 plastic						✓	✓							
15 GP-G-7.0'	1-26-98	16:00	X			1						✓	✓							
GP-G-9.5'	1-26-98	16:05	X			1						✓	✓							HOLD
16 GP-H-6.0'	1-26-98	16:30	X			1						✓	✓							
GP-H-9.5'	1-26-98	16:40	X			1					✓						Y			See attached Shell protocol

Requested By (signature):
Aubrey K Cool
Requested By (signature):
Requested By (signature):

Printed Name: Aubrey Cool
Printed Name:
Printed Name:

Date: 1-28-98
Time: 10:10
Received (signature):
Received (signature):
Received (signature):

Printed Name: ERIK BOMONI
Printed Name:
Printed Name: ABRD

Date: 1-28-98
Time: 10:50
Date: 1/27/98
Time: 11:10



SHELL OIL COMPANY

RETAIL ENVIRONMENTAL ENGINEERING - WEST

CHAIN OF CUSTODY RECORD

Date: 1-26-99

Seal No:

9501E42/13

Page 1 of 3

Site Address: 2300 Santa Clara, Alameda

WIC#: 204-0072-0908

Shell Engineer:
Alex Perez

Phone No.: 510-335-5027
Fax #: 510-335-5020

Consultant Name & Address: CAMBRIA ENVIRONMENTAL
1111 65th St. Suite C, Oakland, CA 94608

Consultant Contact:
Aubrey Coal

Phone No.: 510-420-0700
Fax #: 420-9170

Comments: NOTE 5 D. TURNAROUND.

Sampled by: Aubrey K. Coal

Printed Name: Aubrey K. Coal

Analysis Required

TPH (EPA 8015 Mod. GCS)	TPH (EPA 8015 Mod. Diesel)	BTEX (EPA 8020/602) M.T.S.G.	Volatile Organics (EPA 8240)	Test for Disposal Shell 4B-28	Combination TPH, BTEX & STEK 8020 & M.T.S.G.	Pb	Asbestos	Container Size	Preparation Used	Composite Y/N
					✓	✓				
				✓						Y
					✓	✓				
					✓	✓				
					✓	✓				Y
					✓	✓				
					✓	✓				Y

LAB: Sequoia

CHECK ONE (X) BOX ONLY	CI/DI	TURN AROUND TIME
R.W. Monitoring <input type="checkbox"/>	4441	24 hours <input type="checkbox"/>
Site Investigation <input checked="" type="checkbox"/>	4441	48 hours <input type="checkbox"/>
Soil Cleanly/Disposal <input type="checkbox"/>	4442	14 days <input type="checkbox"/> (Normal)
Water Cleanly/Disposal <input type="checkbox"/>	4443	Other <input checked="" type="checkbox"/> 6 DAY
Soil/Air Rem. or Sys. O & M <input type="checkbox"/>	4452	NOTE: Notify Lab as soon as possible of 24/48 hrs. TAT.
Water Rem. or Sys. O & M <input type="checkbox"/>	4453	
Other <input type="checkbox"/>		

TEST AGENCY: Alameda County

Sample ID	Date	Time	Sludge	Soil	Water	Air	No. of conds.
1 GPA-5.0'	1/26	8:30	X				1
2 GPA-9.0'	1/26	8:35	X				1
3 GP-A	1/26	8:45			X		6 vials 1 Liter 10 ppb
4 GP-B-6.0'	1/26	10:18	X				1
5 GP-B 10.0'	1/26	10:24	X				1
6 GP-B	1/26	10:35			X		6 vials 1 Liter 10 ppb
7 GP-C-6.0'	1/26	11:50	X				1
8 GP-C-10.0'	1/26	12:10	X				1

see attached Shell Protocol

3 DAY TAT

see attached Shell Protocol

Requested By (signature):
Aubrey K. Coal
Requested By (signature):
Requested By (signature):

Printed Name:
Aubrey Coal
Printed Name:
Printed Name:

Date: 1-25-99
Time: 10:16
Date:
Time:
Date:
Time:

Received (signature):
Received (signature):
Received (signature):

Printed Name:
EJIKÉ ROMANA
Printed Name:
Printed Name:

Date:
Date:
Date:
Date:



SHELL OIL COMPANY
RETAIL ENVIRONMENTAL ENGINEERING - WEST

CHAIN OF CUSTODY RECORD

Date: 1-26-98

Serial No: 9801F42/43

Page 2 of 3

Silo Address: 2300 Santa Clara, Alameda

WIC#: 204-0072-0908

Shell Engineer:
Alex Perez

Phone No.:
510 335 5027
Fax #: 510 335 5029

Consultant Name & Address: **CAMBRIA ENVIRONMENTAL**
1111 65th St. Suite C, Oakland, CA 94608

Consultant Contact:
Aubrey Cool

Phone No.: 510
420-0700
Fax #: 420-9170

Comments:

Sampled by: Aubrey K Cool

Printed Name: Aubrey K. Cool

Analysis Required

LAB: Sequoia

CHECK ONE (1) BOX ONLY	CI/MI	TURN AROUND TIME
<input type="checkbox"/>	4441	24 hours <input type="checkbox"/>
<input checked="" type="checkbox"/>	4441	48 hours <input type="checkbox"/>
<input type="checkbox"/>	4442	16 days <input type="checkbox"/> (Normal)
<input type="checkbox"/>	4443	Other <input checked="" type="checkbox"/> 5 DAY
<input type="checkbox"/>	4452	
<input type="checkbox"/>	4453	
<input type="checkbox"/>		

NOTE: Hold to us soon as possible at 24/48 hrs. (A)

UST AGENCY: Alameda County

Sample ID	Date	Time	Sludge	Soil	Water	Air	No. of conds.	Analysis Required										MATERIAL DESCRIPTION	SAMPLE CONDITION/ COMMENTS						
								TPH (EPA 8015 Mod. G)	TPH (EPA 8015 Mod. Diesel)	BTEX (EPA 8020/602)	Volatile Organics (EPA 8240)	Test for Disposal Shell 4B-28	Combination TPH, B015 & BTEX 8020 & MTD	Pb	Asbestos	Container Size	Preparation Used			Composite Y/N					
6 GP-C	1/26	12:20		X			6 VOA's 1 Liter 1 plastic		✓		✓		✓	✓											
7 GP-D-6.0'	1/26	12:30		X			1		✓		✓		✓	✓											
GP-D-10.0'	1/26	12:40		X			1		✓		✓		✓	✓											
GP-D	1/26	13:00		X			6 VOA's 2 Liters 1 plastic		✓		✓		✓	✓											
GP-E-6.0'	1/26	13:05		X			1		✓		✓		✓	✓											
GP-E-10.0'	1/26	13:30		X			1		✓		✓		✓	✓								Y		See attached Shell Protocol	
GP-E	1/26	13:45		X			6 VOA's 1 Liter 1 plastic		✓		✓		✓	✓											
GP-H	1/26	16:50		X			6 VOA's 1 Liter 1 plastic		✓		✓		✓	✓											

Relinquished By (signature): Aubrey K Cool

Printed Name: Aubrey Cool

Date: 1-28-98

Received (signature): [Signature]

Printed Name: E. J. KE E. J. MON

Date: 1-28-98

Relinquished By (signature): [Signature]

Printed Name: [Signature]

Date: 10-10

Received (signature): [Signature]

Printed Name: [Signature]

Date: 1/28/98

Relinquished By (signature): [Signature]

Printed Name: [Signature]

Date: [Signature]

Received (signature): [Signature]

Printed Name: [Signature]

Date: 1/28/98

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

Date: 1-26-98

Serial No: _____

9801F42/43

Page 3 of 3

Site Address: 2300 Santa Clara, Alameda

WIC#: 204-0072-0908

Shell Engineer:
Alex Perez

Phone No.: 510 335 5027
Fax #: 510 335 5029

Consultant Name & Address: CAMBRIA ENVIRONMENTAL
1114 65th St. Suite C, Oakland, CA 94608

Consultant Contact:
Aubrey Cool

Phone No.: 510
420-0700
Fax #: 420-9170

Comments:

Sampled by: Aubrey K Cool

Printed Name: Aubrey K. Cool

Analysis Required

LAB: Sequoia

CHECK ONE (1) BOX ONLY	C/WH	TURN AROUND TIME
G.W. Monitoring	<input type="checkbox"/> 4441	24 hours <input type="checkbox"/>
Site Investigation	<input checked="" type="checkbox"/> 4441	48 hours <input type="checkbox"/>
Soil Chemistry/Disposal	<input type="checkbox"/> 4442	15 days <input type="checkbox"/> (if needed)
Water Chemistry/Disposal	<input type="checkbox"/> 4443	Other: 15 DAY
Soil/Air Retn. or Sys. O & M	<input type="checkbox"/> 4452	NOTE: Holdly (no to even at possible of 24/48 hrs. TAT.
Water Retn. or Sys. O & M	<input type="checkbox"/> 4453	
Other	<input type="checkbox"/>	

UST AGENCY: Alameda County

Sample ID	Date	TIME Judge	Soil	Water	Air	No. of conls.	TPH (EPA 8015 Mod. GC)	TPH (EPA 8015 Mod. Diesel)	BTEX (EPA 8020/602)	Volatile Organics (EPA 8240)	Test for Disposal Shell AB-28	Combination TPH 8015 & BTEX 8020 & MTBE	Pb	Asbestos	Container Size	Preparation Usec	Composite Y/N	
GP-F-5.0'	1-26-98	14:20	X			1		✓		✓		✓	✓					
GP-F-10.0'	1-26-98	14:30	X			1												
GP-F	1-26-98	14:35		X		6 VOCs 2 Liter 1 plastic		✓		✓		✓	✓					
GP-G	1-26-98	16:35		X		6 VOCs 1 Liter 1 plastic						✓	✓					
GP-G-7.0'	1-26-98	16:00	X			1						✓	✓					
GP-G-9.5'	1-26-98	16:05	X			1												
GP-H-6.0'	1-26-98	16:30	X			1						✓	✓					
GP-H-9.5'	1-26-98	16:40	X			1					✓							

MATERIAL DESCRIPTION	SAMPLE CONDITION/ COMMENTS
	HOLD
	HOLD
	See attached Shell Protocol

Requested By (signature):
Aubrey K Cool
Requested By (signature):
Requested By (signature):

Printed Name:
Aubrey Cool
Printed Name:
Printed Name:

Date: 1-28-98
Time: 10:10
Date:
Time:
Date:
Time:

Received (signature):
Received (signature):
Received (signature):

Printed Name:
EJKE SOMON
Printed Name:
Printed Name:
Printed Name: ANNO

Date: 1-28-98
Time: 10:50
Date:
Time:
Date: 1/27/98
Time: 11:20



Sequoia
Analytical

680 Chesapeake Drive
404 N. Wiget Lane
819 Striker Avenue, Suite 8

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

(650) 364-9600
(510) 988-9600
(916) 921-9600

FAX (650) 364-9233
FAX (510) 988-9673
FAX (916) 921-0100

Cambria
1144 65th St. Suite C
Oakland, CA 94608
Attention: Aubrey Cool

Client Proj. ID: Shell 2300 Santa Clara

Received: 01/28/98

Lab Proj. ID: 9802318

Reported: 02/11/98

LABORATORY NARRATIVE

In order to properly interpret this report, it must be reproduced in its entirety. This report contains a total of 23 pages including the laboratory narrative, sample results, quality control, and related documents as required (cover page, COC, raw data, etc.).

8240 Note: The sample GP-H was analyzed one day past hold time. For this reason, the results should be considered estimates.

SEQUOIA ANALYTICAL

Richard Herling
Project Manager





Sequoia Analytical

680 Chesapeake Drive
404 N. Wiget Lane
819 Striker Avenue, Suite 8

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

(650) 364-9600
(510) 988-9600
(916) 921-9600

FAX (650) 364-9233
FAX (510) 988-9673
FAX (916) 921-0100

Cambria
1144 65th St. Suite C
Oakland, CA 94608
Attention: Aubrey Cool

Project: Shell 2300 Santa Clara

Enclosed are the results from samples received at Sequoia Analytical on January 28, 1998.
The requested analyses are listed below:

<u>SAMPLE #</u>	<u>SAMPLE DESCRIPTION</u>	<u>DATE COLLECTED</u>	<u>TEST METHOD</u>
9801F35 -01	SOLID, GP-A-9.0'	01/26/98	TPHD_S Extractable TPH
9801F35 -01	SOLID, GP-A-9.0'	01/26/98	TPHG_S Purgeable TPH
9801F35 -02	SOLID, GP-C-10.0'	01/26/98	TPHD_S Extractable TPH
9801F35 -02	SOLID, GP-C-10.0'	01/26/98	TPHG_S Purgeable TPH
9801F35 -03	SOLID, GP-E-10.0'	01/26/98	TPHD_S Extractable TPH
9801F35 -03	SOLID, GP-E-10.0'	01/26/98	TPHG_S Purgeable TPH
9801F35 -04	SOLID, GP-H-9.5'	01/26/98	TPHD_S Extractable TPH
9801F35 -04	SOLID, GP-H-9.5'	01/26/98	TPHG_S Purgeable TPH
9801F35 -05	SOLID, GP-(A-9,C-10,E-10,H-9)Comp	01/26/98	BTEX_S Distinction
9801F35 -05	SOLID, GP-(A-9,C-10,E-10,H-9)Comp	01/26/98	Lead: STLC Extraction
9801F35 -05	SOLID, GP-(A-9,C-10,E-10,H-9)Comp	01/26/98	Lead
9801F35 -05	SOLID, GP-(A-9,C-10,E-10,H-9)Comp	01/26/98	Organic Lead

Please contact me if you have any questions. In the meantime, thank you for the opportunity to work with you on this project.

Very truly yours,

SEQUOIA ANALYTICAL

Project Manager





**Sequoia
Analytical**

680 Chesapeake Drive
404 N. Wiget Lane
819 Striker Avenue, Suite 8

Redwood City, CA 94063
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Sacramento, CA 95834

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(916) 921-9600

FAX (650) 364-9233
FAX (510) 988-9673
FAX (916) 921-0100

Cambria 1144 65th St. Suite C Oakland, CA 94608	Client Proj. ID: Shell 2300 Santa Clara	Sampled: 01/26/98 Received: 01/28/98 Analyzed: see below
Attention: Aubrey Cool	Lab Proj. ID: 9801F35	Reported: 02/12/98

LABORATORY ANALYSIS

Analyte	Units	Date Analyzed	Detection Limit	Sample Results
Lab No: 9801F35-05				
Sample Desc : SOLID,GP-(A-9,C-10,E-10,H-9)Comp				
Lead	mg/Kg	01/30/98	5.0	14
Lead: STLC Extraction	mg/L	02/02/98	0.10	N.D.
Organic Lead	mg/Kg	01/30/98	5.0	N.D.

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

SEQUOIA ANALYTICAL - ELAP #1210

Richard Herling
Project Manager





Cambria 1144 65th St. Suite C Oakland, CA 94608 Attention: Aubrey Cool	Client Proj. ID: Shell 2300 Santa Clara Sample Descript: GP-A-9.0' Matrix: SOLID Analysis Method: EPA 8015 Mod Lab Number: 9801F35-01	Sampled: 01/26/98 Received: 01/28/98 Extracted: 01/29/98 Analyzed: 01/30/98 Reported: 02/12/98
---	---	--

QC Batch Number: GC012998OHBPEXC
Instrument ID: GCHP4B

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TEPH as Diesel Chromatogram Pattern:	1.0	1.9 C9-C24
Surrogates n-Pentacosane (C25)	Control Limits % 50 150	% Recovery 78

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

SEQUOIA ANALYTICAL - ELAP #1210

Richard Herling
Project Manager





Cambria 144 65th St. Suite C Oakland, CA 94608 Attention: Aubrey Cool Batch Number: GC012998BTEXEXA Instrument ID: GCHP22	Client Proj. ID: Shell 2300 Santa Clara Sample Descript: GP-A-9.0' Matrix: SOLID Analysis Method: EPA 8015 Mod Lab Number: 9801F35-01	Sampled: 01/26/98 Received: 01/28/98 Extracted: 01/29/98 Analyzed: 01/30/98 Reported: 02/12/98
--	---	--

Total Purgeable Petroleum Hydrocarbons (TPPH)

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas Chromatogram Pattern:	1.0	N.D.
Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70	130
Bromofluorobenzene	60	140
		88
		88

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

SEQUOIA ANALYTICAL - ELAP #1210

[Signature]
 Richard Herling
 Project Manager





Cambria 1144 65th St. Suite C Oakland, CA 94608 Attention: Aubrey Cool	Client Proj. ID: Shell 2300 Santa Clara	Sampled: 01/26/98
	Sample Descript: GP-C-10.0'	Received: 01/28/98
	Matrix: SOLID	Extracted: 01/29/98
	Analysis Method: EPA 8015 Mod	Analyzed: 02/01/98
	Lab Number: 9801F35-02	Reported: 02/12/98

QC Batch Number: GC012998OHBPEXC
Instrument ID: GCHP4B

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TEPH as Diesel Chromatogram Pattern:	1.0	1.7 C9-C24
Surrogates n-Pentacosane (C25)	Control Limits % 50 150	% Recovery 82

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

SEQUOIA ANALYTICAL - ELAP #1210

Richard Herling
Project Manager





Cambria 1144 65th St. Suite C Oakland, CA 94608	Client Proj. ID: Shell 2300 Santa Clara Sample Descript: GP-C-10.0' Matrix: SOLID Analysis Method: EPA 8015 Mod Lab Number: 9801F35-02	Sampled: 01/26/98 Received: 01/28/98 Extracted: 01/29/98 Analyzed: 01/30/98 Reported: 02/12/98
---	--	--

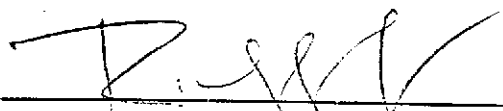
QC Batch Number: GC012998BTEXEXA
Instrument ID: GCHP22

Total Purgeable Petroleum Hydrocarbons (TPPH)

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas Chromatogram Pattern:	1.0	N.D.
Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70	130
4-Bromofluorobenzene	60	140

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

SEQUOIA ANALYTICAL - ELAP #1210



Richard Herling
Project Manager





Cambria 1144 65th St. Suite C Oakland, CA 94608 Attention: Aubrey Cool	Client Proj. ID: Shell 2300 Santa Clara Sample Descript: GP-E-10.0' Matrix: SOLID Analysis Method: EPA 8015 Mod Lab Number: 9801F35-03	Sampled: 01/26/98 Received: 01/28/98 Extracted: 01/29/98 Analyzed: 01/30/98 Reported: 02/12/98
---	--	--

QC Batch Number: GC012998OHBPEXC
Instrument ID: GCHP4B

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TEPH as Diesel Chromatogram Pattern:	1.0	N.D.
Surrogates	Control Limits %	% Recovery
n-Pentacosane (C25)	50 150	70

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

SEQUOIA ANALYTICAL - ELAP #1210

Richard Herling
Project Manager





Cambria 1144 65th St. Suite C Oakland, CA 94608	Client Proj. ID: Shell 2300 Santa Clara Sample Descript: GP-E-10.0' Matrix: SOLID Analysis Method: EPA 8015 Mod Lab Number: 9801F35-03	Sampled: 01/26/98 Received: 01/28/98 Extracted: 01/29/98 Analyzed: 01/30/98 Reported: 02/12/98
---	--	--

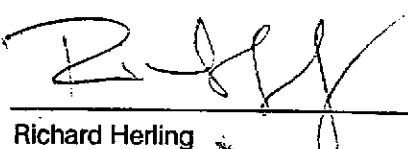
QC Batch Number: GC012998BTEXEXA
Instrument ID: GCHP22

Total Purgeable Petroleum Hydrocarbons (TPPH)

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas Chromatogram Pattern:	1.0	N.D.
Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70	89
4-Bromofluorobenzene	60	140

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

SEQUOIA ANALYTICAL - ELAP #1210


 Richard Herling
 Project Manager





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

Attention: Aubrey Cool

Client Proj. ID: Shell 2300 Santa Clara
Sample Descript: GP-H-9.5'
Matrix: SOLID
Analysis Method: EPA 8015 Mod
Lab Number: 9801F35-04

Sampled: 01/26/98
Received: 01/28/98
Extracted: 01/29/98
Analyzed: 02/01/98
Reported: 02/12/98

QC Batch Number: GC012998OHBPEXC
Instrument ID: GCHP4B

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TEPH as Diesel Chromatogram Pattern:	1.0	1.6 C9-C24
Surrogates	Control Limits %	% Recovery
n-Pentacosane (C25)	50 150	76

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

SEQUOIA ANALYTICAL - ELAP #1210


Richard Herling
Project Manager





Cambria 1144 65th St. Suite C Oakland, CA 94608	Client Proj. ID: Shell 2300 Santa Clara Sample Descript: GP-H-9.5' Matrix: SOLID Analysis Method: EPA 8015 Mod Lab Number: 9801F35-04	Sampled: 01/26/98 Received: 01/28/98 Extracted: 01/29/98 Analyzed: 01/30/98 Reported: 02/12/98
Attention: Aubrey Cool		
QC Batch Number: GC012998BTEXEXA Instrument ID: GCHP22		

Total Purgeable Petroleum Hydrocarbons (TPPH)

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas Chromatogram Pattern:	1.0	N.D.
Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70	130
4-Bromofluorobenzene	60	140
		89
		90

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

EQUOIA ANALYTICAL - ELAP #1210

Richard Herling
Project Manager





Cambria 1144 65th St. Suite C Oakland, CA 94608 Attention: Aubrey Cool	Client Proj. ID: Shell 2300 Santa Clara Sample Descript: GP-(A-9,C-10,E-10,H-9)Comp Matrix: SOLID Analysis Method: EPA 8020 Lab Number: 9801F35-05	Sampled: 01/26/98 Received: 01/28/98 Extracted: 01/29/98 Analyzed: 01/30/98 Reported: 02/12/98
---	--	--

QC Batch Number: GC012998BTEXEXA
Instrument ID: GCHP22

BTEX Distinction

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
Benzene	0.0050	N.D.
Toluene	0.0050	N.D.
Ethyl benzene	0.0050	N.D.
Xylenes (Total)	0.0050	N.D.
Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70	130
4-Bromofluorobenzene	60	140

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

SEQUOIA ANALYTICAL - ELAP #1210


Richard Herling
Project Manager





**Sequoia
Analytical**

680 Chesapeake Drive
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FAX (510) 988-9673
FAX (916) 921-0100

Cambria Environmental Tech.
1144 65th St., Ste. C
Oakland, CA 94608
Attention: Aubrey Cool

Client Project ID: Shell 2300 Santa Clara
Matrix: Solid

Work Order #: 9801F35 05

Reported: Feb 13, 1998

QUALITY CONTROL DATA REPORT

Analyte: Organic Lead

QC Batch#: ME0130987000MDB
Analy. Method: LUFT
Prep. Method: LUFT

Analyst: B. Taylor
MS/MSD #: 9801F3505
Sample Conc.: N.D.
Prepared Date: 1/30/98
Analyzed Date: 1/30/98
Instrument I.D.#: MV2
Conc. Spiked: 4.0 mg/Kg

Result: 0.22
MS % Recovery: 6.0

Dup. Result: 0.21
MSD % Recov.: 5.0

RPD: 4.7
RPD Limit: 0-30

LCS #: BLK013098

Prepared Date: 1/30/98
Analyzed Date: 1/30/98
Instrument I.D.#: MV2
Conc. Spiked: 4.0 mg/Kg

LCS Result: 3.6
LCS % Recov.: 90

**MS/MSD
LCS
Control Limits** 75-125

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.

** MS= Matrix Spike, MSD=MS Duplicate, RPD=Relative % Difference

9801F35.CCC <1>

SEQUOIA ANALYTICAL

Richard Herling
Richard Herling
Project Manager





Sequoia Analytical

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Cambria Environmental Tech.
1144 65th St., Ste. C
Oakland, CA 94608
Attention: Aubrey Cool

Client Project ID: Shell 2300 Santa Clara
Matrix: Solid

Work Order #: 9801F35 05

Reported: Feb 13, 1998

QUALITY CONTROL DATA REPORT

Analyte:	Beryllium	Cadmium	Chromium	Nickel
QC Batch#:	ME0130986010MDE	ME0130986010MDE	ME0130986010MDE	ME0130986010MDE
Analy. Method:	EPA 6010	EPA 6010	EPA 6010	EPA 6010
Prep. Method:	EPA 3050	EPA 3050	EPA 3050	EPA 3050

Analyst:	S. Lebaron	S. Lebaron	S. Lebaron	S. Lebaron
MS/MSD #:	9801F4201	9801F4201	9801F4201	9801F4201
Sample Conc.:	N.D.	N.D.	40	25
Prepared Date:	1/30/98	1/30/98	1/30/98	1/30/98
Analyzed Date:	1/30/98	1/30/98	1/30/98	1/30/98
Instrument I.D.#:	MTJA5	MTJA5	MTJA5	MTJA5
Conc. Spiked:	50 mg/Kg	50 mg/Kg	50 mg/Kg	50 mg/Kg

Result:	49	47	89	74
MS % Recovery:	98	94	98	98

Dup. Result:	49	48	90	74
MSD % Recov.:	98	96	100	98

RPD:	0.0	2.1	1.1	0.0
RPD Limit:	0-20	0-20	0-20	0-20

LCS #:	BLK013098	BLK013098	BLK013098	BLK013098
Prepared Date:	1/30/98	1/30/98	1/30/98	1/30/98
Analyzed Date:	1/30/98	1/30/98	1/30/98	1/30/98
Instrument I.D.#:	MTJA5	MTJA5	MTJA5	MTJA5
Conc. Spiked:	50 mg/Kg	50 mg/Kg	50 mg/Kg	50 mg/Kg
LCS Result:	50	47	48	48
LCS % Recov.:	100	94	96	96

MS/MSD	80-120	80-120	80-120	80-120
LCS	80-120	80-120	80-120	80-120
Control Limits				

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

Richard Herling
Project Manager

** MS=Matrix Spike, MSD=MS Duplicate, RPD=Relative % Difference

9801F35.CCC <2>





Cambria Environmental Tech.
1144 65th St., Ste. C
Oakland, CA 94608
Attention: Aubrey Cool

Client Project ID: Shell 2300 Santa Clara
Matrix: Liquid

Work Order #: 9801F35 05

Reported: Feb 13, 1998

QUALITY CONTROL DATA REPORT

Analyte:	Beryllium	Cadmium	Chromium	Nickel
QC Batch#:	ME0202986010MDA	ME0202986010MDA	ME0202986010MDA	ME0202986010MDA
Analy. Method:	EPA 6010	EPA 6010	EPA 6010	EPA 6010
Prep. Method:	EPA 3010	EPA 3010	EPA 3010	EPA 3010
Analyst:	S. Lebaron	S. Lebaron	S. Lebaron	S. Lebaron
MS/MSD #:	9801G8201	9801G8201	9801G8201	9801G8201
Sample Conc.:	N.D.	N.D.	N.D.	0.11
Prepared Date:	2/2/98	2/2/98	2/2/98	2/2/98
Analyzed Date:	2/2/98	2/2/98	2/2/98	2/2/98
Instrument I.D.#:	MTJA5	MTJA5	MTJA5	MTJA5
Conc. Spiked:	1.0 mg/L	1.0 mg/L	1.0 mg/L	1.0 mg/L
Result:	1.1	1.1	1.1	1.2
MS % Recovery:	110	110	110	120
Dup. Result:	1.1	1.0	1.1	1.2
MSD % Recov.:	110	100	110	120
RPD:	0.0	9.5	0.0	0.0
RPD Limit:	0-20	0-20	0-20	0-20

LCS #:	BLK020298	BLK020298	BLK020298	BLK020298
Prepared Date:	2/2/98	2/2/98	2/2/98	2/2/98
Analyzed Date:	2/2/98	2/2/98	2/2/98	2/2/98
Instrument I.D.#:	MTJA5	MTJA5	MTJA5	MTJA5
Conc. Spiked:	1.0 mg/L	1.0 mg/L	1.0 mg/L	1.0 mg/L
LCS Result:	1.1	1.1	1.1	1.1
LCS % Recov.:	110	110	110	110

MS/MSD	80-120	80-120	80-120	80-120
LCS	80-120	80-120	80-120	80-120
Control Limits				

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.

** MS= Matrix Spike, MSD=MS Duplicate, RPD=Relative % Difference

9801F35.CCC <3>

SEQUOIA ANALYTICAL

Richard Herling
Project Manager





Cambria Environmental Tech.
1144 65th St., Ste. C
Oakland, CA 94608
Attention: Aubrey Cool

Client Project ID: Shell 2300 Santa Clara
Matrix: Solid

Work Order #: 9801F35 01-04

Reported: Feb 13, 1998

QUALITY CONTROL DATA REPORT

Analyte: Diesel

QC Batch#: GC0129980HBPEXC

Analy. Method: EPA 8015M

Prep. Method: EPA 3550/DHS

Analyst: A. Porter

MS/MSD #: 9801F3503

Sample Conc.: N.D.

Prepared Date: 1/29/98

Analyzed Date: 1/30/98

Instrument I.D.#: GCHP4B

Conc. Spiked: 25 mg/Kg

Result: 20

MS % Recovery: 80

Dup. Result: 19

MSD % Recov.: 76

RPD: 5.1

RPD Limit: 0-50

LCS #: BLK013098

Prepared Date: 1/29/98

Analyzed Date: 1/30/98

Instrument I.D.#: GCHP4B

Conc. Spiked: 25 mg/Kg

LCS Result: 20

LCS % Recov.: 80

MS/MSD 50-150

LCS 60-140

Control Limits

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

Richard Herling
Project Manager

** MS=Matrix Spike, MSD=MS Duplicate, RPD=Relative % Difference

9801F35.CCC <4>





Cambria Environmental Tech.
1144 65th St., Ste. C
Oakland, CA 94608
Attention: Aubrey Cool

Client Project ID: Shell 2300 Santa Clara
Matrix: Solid

Work Order #: 9801F35 01-04

Reported: Feb 13, 1998

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes	Gas
QC Batch#:	GC012998BTEXEXA	GC012998BTEXEXA	GC012998BTEXEXA	GC012998BTEXEXA	GC012998BTEXEXA
Analy. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020	EPA 8015M
Prep. Method:	EPA 5030	EPA 5030	EPA 5030	EPA 5030	EPA 5030

Analyst:	J. Minkel	J. Minkel	J. Minkel	J. Minkel	J. Minkel
MS/MSD #:	9801F4201	9801F4201	9801F4201	9801F4201	9801F4201
Sample Conc.:	N.D.	N.D.	N.D.	N.D.	N.D.
Prepared Date:	1/29/98	1/29/98	1/29/98	1/29/98	1/29/98
Analyzed Date:	1/30/98	1/30/98	1/30/98	1/30/98	1/30/98
Instrument I.D.#:	GCHP7	GCHP7	GCHP7	GCHP7	GCHP7
Conc. Spiked:	0.20 mg/Kg	0.20 mg/Kg	0.20 mg/Kg	0.60 mg/Kg	1.2 mg/Kg
Result:	0.18	0.18	0.19	0.56	1.1
MS % Recovery:	90	90	95	93	92
Dup. Result:	0.15	0.15	0.16	0.46	0.90
MSD % Recov.:	75	85	80	77	75
RPD:	18	18	17	20	20
RPD Limit:	0-25	0-25	0-25	0-25	0-25

LCS #:	BLK012998	BLK012998	BLK012998	BLK012998	BLK012998
Prepared Date:	1/29/98	1/29/98	1/29/98	1/29/98	1/29/98
Analyzed Date:	1/30/98	1/30/98	1/30/98	1/30/98	1/30/98
Instrument I.D.#:	GCHP7	GCHP7	GCHP7	GCHP7	GCHP7
Conc. Spiked:	0.20 mg/Kg	0.20 mg/Kg	0.20 mg/Kg	0.60 mg/Kg	1.2 mg/Kg
LCS Result:	0.20	0.20	0.21	0.61	1.2
LCS % Recov.:	100	100	105	102	100

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

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

Richard Herling
Richard Herling
Project Manager

** MS=Matrix Spike, MSD=MS Duplicate, RPD=Relative % Difference

9801F35.CCC <5>





SHELL OIL COMPANY
RETAIL ENVIRONMENTAL ENGINEERING - WEST

CHAIN OF CUSTODY RECORD

Serial No: 9801F35

Date: 1-26-98

Page 1 of 3

Site Address: 2300 Santa Clara, Alameda

WIC#: 204-0072-0908

Shell Engineer:
Alex Perez

Phone No.: 510 335 5027
Fax #: 510 335 5029

Consultant Name & Address: **CAMBRIA ENVIRONMENTAL**
1114 65th St. Suite C, Oakland, CA 94608

Consultant Contact:
Aubrey Cool

Phone No.: 510 420-0700
Fax #: 420-9170

Comments: **NOTE 5 D. TURNAROUND.**

Sampled by: *Aubrey K. Cool*

Printed Name: *Aubrey K. Cool*

Analysis Required

TPH (EPA 8015 Mod. Gas)	TPH (EPA 8015 Mod. Diesel)	BTEX (EPA 8020/602) M.T.B.E.	Volatile Organics (EPA 8240)	Test for Disposal Shell 48-28	Combination TPH, BTEX & BTEX 8020 PMTB	Pb	Asbestos	Container Size	Preparation Used	Composite Y/N

LAB: Sequoia

CHECK ONE (1) BOX ONLY	CI/DI	TURN AROUND TIME
G.W. Monitoring <input type="checkbox"/>	4441	24 hours <input type="checkbox"/>
Site Investigation <input checked="" type="checkbox"/>	4441	48 hours <input type="checkbox"/>
Soil Classify/Disposal <input type="checkbox"/>	4442	16 days <input type="checkbox"/> (Normal)
Water Classify/Disposal <input type="checkbox"/>	4443	Other <input checked="" type="checkbox"/> 5 DAY
Soil/Air Rem. or Sys. O & M <input type="checkbox"/>	4453	NOTE: Holdly Lab as soon as Possible of 24/48 hrs. TAT.
Water Rem. or Sys. O & M <input type="checkbox"/>	4453	
Other <input type="checkbox"/>		

TEST AGENCY: Alameda County

Sample ID	Date	Time Sludge	Soil	Water	Air	No. of confs.	TPH (EPA 8015 Mod. Gas)	TPH (EPA 8015 Mod. Diesel)	BTEX (EPA 8020/602) M.T.B.E.	Volatile Organics (EPA 8240)	Test for Disposal Shell 48-28	Combination TPH, BTEX & BTEX 8020 PMTB	Pb	Asbestos	Container Size	Preparation Used	Composite Y/N	MATERIAL DESCRIPTION	SAMPLE CONDITION/ COMMENTS	
EPA - 5.0'	1/26	8:30	X			1						✓	✓							
GP-A - 9.0'	1/26	8:35	X			1					✓						Y		see attached Shell Protocol	
GP-A	1/26	8:45		X		1						✓	✓							
GP-B - 6.0'	1/26	10:18	X			1						✓	✓							
GP-B 10.0'	1/26	10:24	X			1						✓	✓							HOLD
GP-B	1/26	10:35		X		1						✓	✓							
GP-C-6.0'	1/26	11:50	X			1	✓		✓			✓	✓							
GP-C-10.0'	1/26	12:10	X			1					✓						Y		see attached Shell Protocol	

Requested By (signature): <i>Aubrey K. Cool</i>	Printed Name: <i>Aubrey Cool</i>	Date: 1-28-98	Received (signature): <i>[Signature]</i>	Printed Name: <i>EJIKE ROMANU</i>	Date: 1-28-98
Requested By (signature):	Printed Name:	Date:	Received (signature):	Printed Name:	Date:
Requested By (signature):	Printed Name:	Date:	Received (signature): <i>[Signature]</i>	Printed Name: <i>[Signature]</i>	Date: 1/29/98

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: 9801E35

Date: 1-26-98

Page 2 of 3

Site Address: 2300 Santa Clara, Alameda

WIC#: 204-0072-0908

Shell Engineer: Alex Perez
Phone No.: 510 335 5027
Fax #: 510 335 5029

Consultant Name & Address: CAMBRIA ENVIRONMENTAL
1114 65th St. Suite C, Oakland, CA 94608

Consultant Contact: Aubrey Cool
Phone No.: 510 420-0700
Fax #: 420-9170

Comments:

Sampled by: Aubrey K Cool

Printed Name: Aubrey K. Cool

Analysis Required

TPH (EPA 8015 Mod. Gas)	TPH (EPA 8015 Mod. Diesel)	STEX (EPA 8020/602)	Volatile Organics (EPA 8240)	Test for Disposal Shell 4B-28	Combination TPH 8015 & STEX 8020 & MTBE	Pb	Asbestos	Container Size	Preparation Used	Composite Y/N
	✓		✓		✓	✓				
	✓		✓		✓	✓				
	✓		✓		✓	✓				
	✓		✓		✓	✓				
	✓		✓		✓	✓				Y
	✓		✓		✓	✓				
	✓		✓		✓	✓				

LAB: Sequoia

CHECK ONE (1) BOX ONLY	CI/DI	TURN AROUND TIME
G.W. Monitoring <input type="checkbox"/>	4441	24 hours <input type="checkbox"/>
Site Investigation <input checked="" type="checkbox"/>	4441	48 hours <input type="checkbox"/>
Soil Classify/Disposal <input type="checkbox"/>	4442	16 Days <input type="checkbox"/> (Manual)
Water Classify/Disposal <input type="checkbox"/>	4443	Other <input checked="" type="checkbox"/> 5 DAY
Soil/Air Rem. or Sys. O & M <input type="checkbox"/>	4452	NOTE: Monthly Lab as soon as Possible at 24/48 hrs. TAT.
Water Rem. or Sys. O & M <input type="checkbox"/>	4453	
Other <input type="checkbox"/>		

UST AGENCY: Alameda County

Sample ID	Date	Time Sludge	Soil	Water	Air	No. of conls.	TPH (EPA 8015 Mod. Gas)	TPH (EPA 8015 Mod. Diesel)	STEX (EPA 8020/602)	Volatile Organics (EPA 8240)	Test for Disposal Shell 4B-28	Combination TPH 8015 & STEX 8020 & MTBE	Pb	Asbestos	Container Size	Preparation Used	Composite Y/N	MATERIAL DESCRIPTION	SAMPLE CONDITION/ COMMENTS	
✓ GP-C	1/26	12:20		X		6 VOCAS 1 Liter 1 plastic		✓		✓		✓	✓							
GP-D-6.0'	1/26	12:30	X			1		✓		✓		✓	✓							
GP-D-10.0'	1/26	12:40	X			1														HOLD
GP-D	1/26	13:00		X		6 VOCAS 2 Liters 1 plastic		✓		✓		✓	✓							
✓ GP-E-6.0'	1/26	13:05	X			1		✓		✓		✓	✓							
✓ GP-E-10.0'	1/26	13:30	X			1				✓		✓	✓				Y		See attached Shell Protocol	
GP-E	1/26	13:45		X		6 VOCAS 1 Liter 1 plastic		✓		✓		✓	✓							
GP-H	1/26	16:50		X		6 VOCAS 1 Liter 1 plastic		✓		✓		✓	✓							

Relinquished By (signature): Aubrey K Cool

Printed Name: Aubrey Cool

Date: 1-28-98

Received (signature): [Signature]

Printed Name: EJIKI BOMON

Date: 1-28-98

Relinquished By (signature): [Signature]

Printed Name:

Date: 10-10

Received (signature): [Signature]

Printed Name:

Date:

Relinquished By (signature): [Signature]

Printed Name:

Date:

Received (signature): [Signature]

Printed Name: ABAD

Date: 1/20/98