R02433

Shell Oil Products US

February 18, 2005

Roseanna Garcia-LaGrille
Alameda County Health Care Services Agency
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502-6577

Subject: **Former Shell Service Station**
2160 Otis Drive
Alameda, California

Dear Ms. Garcia-LaGrille:

Attached for your review and comment is a copy of the *Groundwater Monitoring Report – Fourth Quarter 2004, Complete Closure Summary Package, and Request for Environmental Case Closure* for the above referenced site. Upon information and belief, I declare, under penalty of perjury, that the information contained in the attached document is true and correct.

As always, please feel free to contact me directly at (559) 645-9306 with any questions or concerns.

Sincerely,

Shell Oil Products US

Karen Petryna

Karen Petryna
Sr. Environmental Engineer

20945 S. Wilmington Ave., Carson, CA 90810 Phone (559) 645-9306 Facsimile (559) 645-5643

CAMBRIA

February 18, 2005

Ms. Roseanna Garcia-LaGrille
Alameda County Health Care Services Agency
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502-6577

Re: **Groundwater Monitoring Report - Fourth Quarter 2004, Complete Closure Summary Package, and Request for Environmental Case Closure**
Former Shell Service Station
2160 Otis Drive
Alameda, California

Dear Ms. Garcia-La Grille:

Cambria Environmental Technology, Inc. (Cambria) prepared this report on behalf of Equilon Enterprises LLC dba Shell Oil Products US (Shell) in accordance with the quarterly reporting requirements of 23 CCR 2652d, to suspend further monitoring, and to request case closure. A complete closure summary package is included.

SITE BACKGROUND

The site is located on the west side of intersection of Otis Drive and South Shore Center in a commercial section of Alameda, California (Figure 1). The former station layout included three underground storage tanks (USTs), two fuel dispensers, and a station building (Figure 2). The current site configuration consists of an Office Max business and parking area.

PREVIOUS WORK

Shell discontinued operation of the service station, demolished the aboveground facilities, and removed the underground storage tanks (USTs) and piping in September 1997. Based on the results of more than five years of groundwater monitoring, the ACHCSA granted no further action status on November 14, 1995 for a waste-oil tank release. During the groundwater monitoring that occurred between 1989 and 1995, the depth to groundwater at this site varied between 3 and 5 feet with a flow direction of north-northeast. Based on groundwater samples collected from former wells MW-1 and MW-2 on October 11, 1994, the groundwater contained over 6,500 milligrams per liter of total dissolved solids, which exceeds state guidelines for use as a drinking water source.

Cambria
Environmental
Technology, Inc.

270 Perkins Street
P.O. Box 259
Sonoma, CA 95476
Tel (707) 935-4850
Fax (707) 935-6649

August 1997 Pre-Characterization Sampling: On August 1, 1997, soil samples (SB-A through SB-H) were collected near the gasoline tanks to pre-characterize soils before the tanks were removed. Of the 40 soil samples analyzed, the maximum benzene concentration was 0.15 parts per million (ppm). No benzene was detected in 35 of the soil samples. The maximum total petroleum hydrocarbon as gasoline (TPHg) detected in the soil samples was 46 ppm. No TPHg was detected in 30 of the soil samples.

September 1997 Tank Removal Sampling: On September 4, 1997, Paradiso Mechanical of San Leandro, California removed three 10,000-gallon fiberglass gasoline USTs and one 550-gallon fiberglass waste-oil tank, and the associated gasoline product piping, vent piping, and dispensers. Cambria collected soil samples from near the ends of the former gasoline tanks and the waste-oil tank. Grab groundwater samples were collected from the gasoline tank and the waste-oil tank excavations. Cambria also collected six soil samples from beneath the former dispensers and product piping and one soil sample from beneath each of two former hoists and the former garage oil/water separator. The tank removal and sampling activities were documented in Cambria's October 3, 1997 *Tank Removal and Sampling Report.* Although petroleum hydrocarbons were detected in the grab groundwater samples from both tank pits, no petroleum hydrocarbons were detected in the soil sample from near the waste oil tank pit and only low concentrations of petroleum hydrocarbons (non-detected TPHg, maximum 0.11 ppm benzene, maximum 0.49 ppm methyl tertiary butyl ether [MTBE]) were reported (by EPA Method 8020) in the soil samples collected around the gasoline tank pit. Maximum concentrations of 270 ppm TPHg, 1.7 ppm benzene, and 0.32 ppm MTBE were detected in shallow soil samples collected beneath the former dispensers.

December 1997 Geoprobe® Investigation: On December 17, 1997, Cambria collected soil and/or grab groundwater samples from Geoprobe® borings G-1 through G-7. The complete sampling activities and analytical results are documented in Cambria's January 28, 1998 *Investigation Report.* No TPHg, total extractable petroleum hydrocarbons as diesel, or benzene, toluene, ethylbenzene, or total xylenes (BTEX) were detected in any of the soil samples from near the former gasoline tanks, waste oil tank, or the northern corner of the property. MTBE was reported in one soil sample collected near the former gasoline tank pit at a concentration of 0.28 ppm by EPA Method 8020. No MTBE was detected in any other soil sample collected from any location onsite. Of the four soil samples collected from the former dispenser areas, only one (G-6-3.5') contained detectable concentrations of TPHg (5.2 ppm) or benzene (0.0059 ppm).

No TPHg, BTEX, or MTBE was detected in the grab groundwater sample (G-5) collected from the northern corner of the site. Maximum concentrations of 2,900 parts per billion (ppb) TPHg, 240 ppb benzene, and 920 ppb MTBE (by EPA Method 8020) were detected in the two grab groundwater samples collected directly downgradient of the former dispensers and gasoline tanks.

November 2000 Well Installation: In November 2000, Cambria installed monitoring well MW-3 onsite (Figure 2). No TPHg, BTEX, or MTBE were detected in any of the soil samples collected from well MW-3.

Groundwater Monitoring: Following the installation of MW-3, groundwater monitoring was re-initiated. The monitoring program was suspended after the fourth quarter 2001 event, pending case closure review by the ACHCSA. The maximum detected TPHg, benzene, and MTBE concentrations in well MW-3 were 3,100 ppb, 250 ppb, and 180 ppb, respectively, during the four quarters of monitoring conducted. Depth to groundwater during this period ranged from 5.06 feet below grade (fbg) to 5.93 fbg.

Downgradient Assessment 2003: Based on a series of e-mail correspondences between Cambria, Shell, and the ACHCSA between June and October, 2002, investigation activities were proposed to assist with the agency's evaluation of closure potential. The purpose of these borings was to assess the lateral extent of benzene impact between the site and the nearest receptor (a lagoon located approximately 300 feet northeast/downgradient of the site), and also to assess whether preferential migration of benzene was occurring via the subsurface utility conduits. In December, 2003, Cambria performed offsite assessment activities to delineate the extent of petroleum hydrocarbons in groundwater downgradient of the site and near utility lines that likely intersect the shallow groundwater table. The results of these activities were documented in Cambria's November 30, 2004 *Site Investigation Report*, which concluded that the former release of petroleum constituents at the subject site had not migrated significantly down gradient; and, that preferential migration of constituents along utility lines was not apparent.

Fourth Quarter 2004 Groundwater Monitoring: Blaine Tech Services, Inc. (Blaine) of San Jose, California sampled the site well and prepared a summary table of field data and gasoline constituent concentrations. Well MW-3 was analyzed for all five fuel oxygenates in anticipation of preparation of a closure request. Cambria prepared a site vicinity map (Figure 1) and a groundwater elevation/chemical concentration map (Figure 2). Blaine's report, presenting the laboratory report, is included as Appendix A.

REQUEST FOR CASE CLOSURE

The subject site has not been operated as a gasoline service station since 1997 when the petroleum tanks and equipment were removed. The site has been redeveloped for commercial use as an Office Max. Surrounding property use is primarily commercial and residential. The nearest sensitive receptor to this site is surface water (lagoons) located approximately 300 feet northeast and downgradient of the site. The nearest drinking water well is located more than 2,000 feet from the site. Based on elevated levels of TDS, the groundwater in the vicinity of the site is considered non-potable.

In 2002, Cambria requested case closure from the Alameda County Health Care Services Agency (ACHCSA). The case worker at the time requested additional information and monitoring of benzene concentrations in MW-3 to determine whether the former gas station operations pose a threat to the lagoons, since benzene the concentration in MW-3 at that time (250 ppb) was above the Ecological Protection Zone Tier 1 Standard of 71 ppb (electronic correspondence dated June 12, 2002 from Eva Chu of ACHCSA to Karen Petryna of Shell). The current benzene concentration is less than the detection limit of 0.50 ppb, and therefore well below the Ecological Protection Zone Tier 1 Standard, previously referenced. Further, the current constituent concentrations in well MW-3 are well below the San Francisco Bay Regional Water Quality Board Environmental Screening Levels for protection of surface water bodies.

Based on the above information and all previous documentation submitted to date, **Cambria respectfully requests that the ACHCSA grant case closure.** To assist with the closure review, Cambria has prepared a Site Closure Summary Form which includes all historical soil and groundwater results (Appendix B).

RECOMMENDATIONS

Cambria recommends that the groundwater monitoring activities be discontinued, and that MW-3 be permitted for proper destruction. No further activities are warranted.

At Shell's request, and due to 17 years of data for this site, **groundwater monitoring has been suspended** pending a response to this closure request from the ACHCSA.

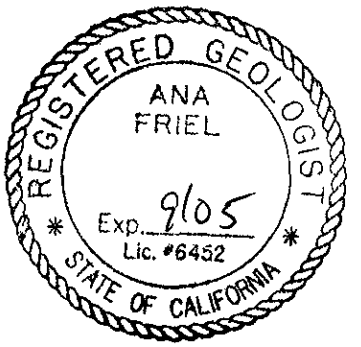
CLOSING

If you have any questions regarding this document, please call Ana Friel at (707) 268-3812.

Sincerely,
Cambria Environmental Technology, Inc.

for
Susan Lukaszewicz
Staff Geologist

Ana Friel, PG
Senior Project Geologist
PG 6452



Attachments:

Figure 1.	Site Vicinity Map
Figure 2.	Groundwater Elevation/Chemical Concentration Map
Appendix A.	Blaine Tech Services, Inc. - Groundwater Monitoring Report
Appendix B.	Site Closure Summary Form

cc: Karen Petryna, Shell
Harsch Investment Group, 523 West Plaza, Alameda, CA 94501
Betty Graham, SFBRWQCB

11/05/03

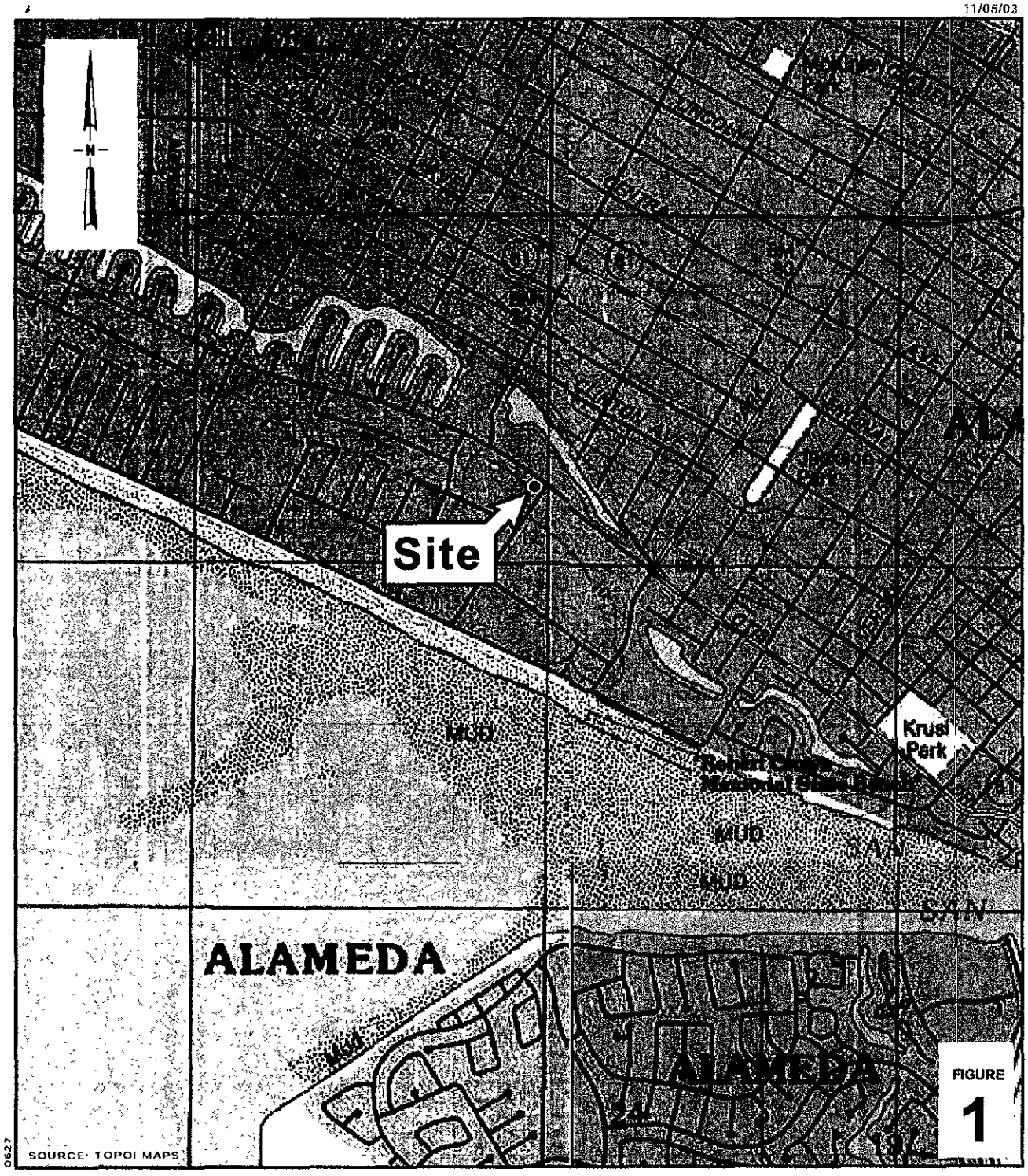


FIGURE 1

0 1/8 1/4 1/2 1

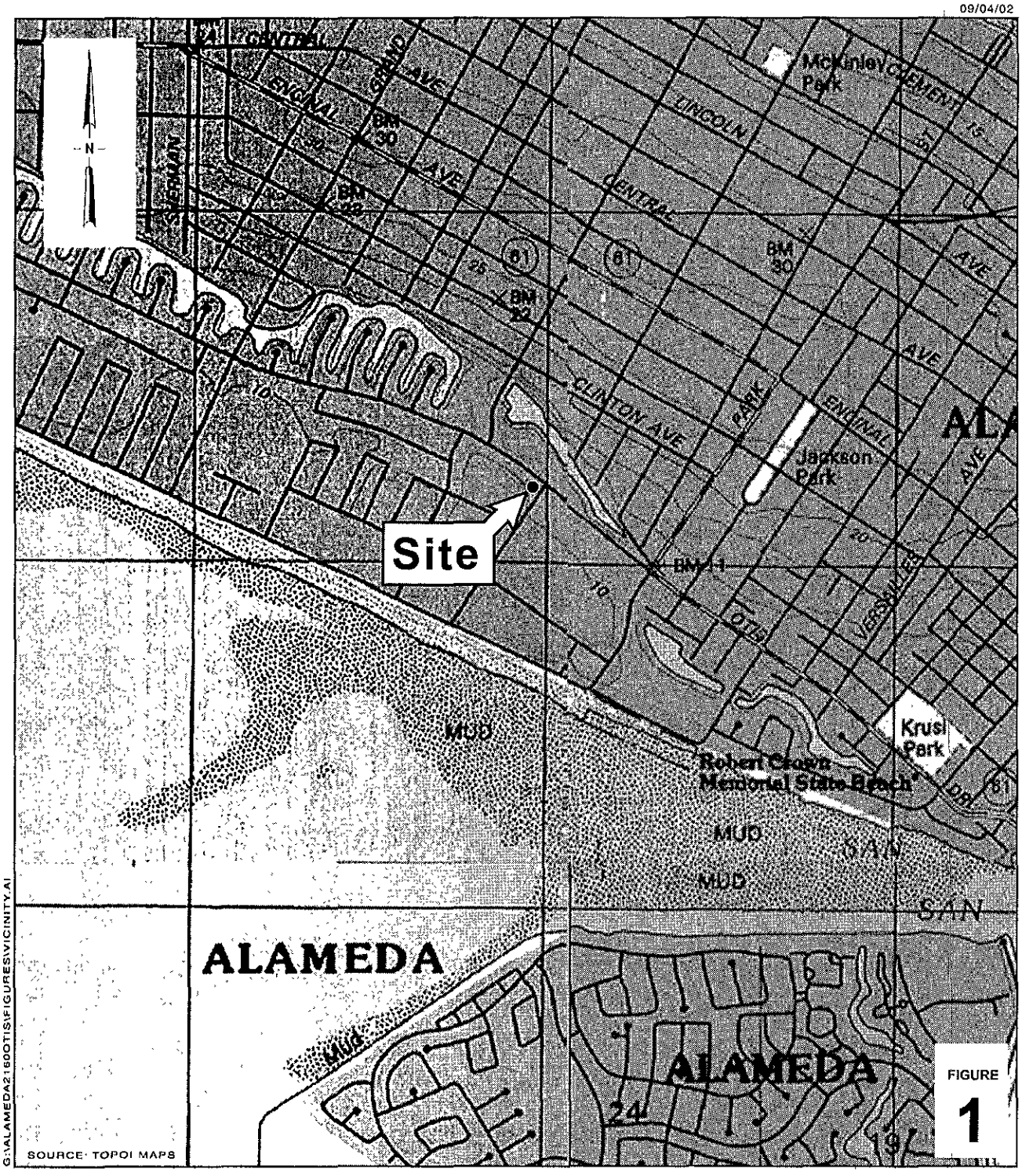
SCALE (MILES)

Former Shell Service Station
2160 Otis Drive
Alameda, California

Site Vicinity Map

CAMBRIA

09/04/02



G:\ALAMEDA2160OTIS\FIGURES\VICINITY.AI

0 1/8 1/4 1/2 1

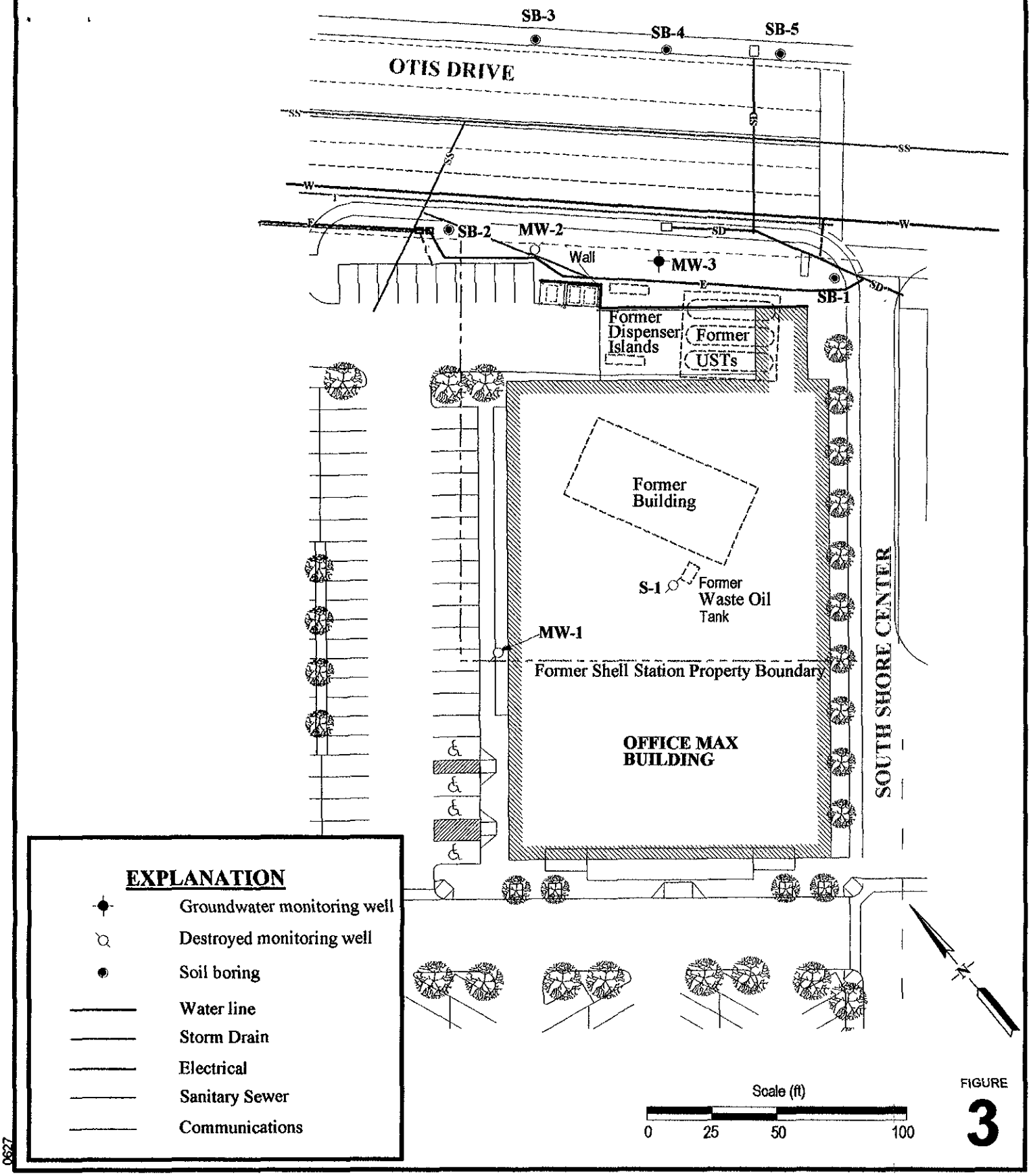
SCALE : 1" = 1/4 MILE

FIGURE
1

Former Shell Service Station
2160 Otis Drive
Alameda, California
Incident #98995140

Vicinity Map

CAMBRIA



0627

Shell-branded Service Station
2160 Otis Drive
Alameda, California

CAMBRIA

Utility Line Map

LAB: STL

Lab Identification (if necessary):

Address:

City, State, Zip:

EQUIVA Services LLC Chain Of Custody Record

96445

Equiva Project Manager to be invoiced:

☑ SCIENCE & ENGINEERING
☐ TECHNICAL SERVICES
☐ CRMT HOUSTON

Karen Petryna

2004-12-0414

INCIDENT NUMBER (S&E ONLY): 9 8 9 9 5 1 4 0

SAP or CRMT NUMBER (TS/CRMT):

DATE: 12/7/04

PAGE: 1 of 1

SAMPLING COMPANY: Blaine Tech Services	LOG CODE: BTSS
SITE ADDRESS (Street and City): 2160 Otis Dr., Alameda	GLOBAL ID NO.: T0600101236
ADDRESS: 1680 Rogers Avenue, San Jose, CA 95112	
PROJECT CONTACT (Hardcopy or PDF Report to): Leon Gearhart	
EDF DELIVERABLE TO (Responsible Party or Designee): Ana Friel	PHONE NO.: (707) 442-2700
E-MAIL: sonomaedf@cambria-env.com	CONSULTANT PROJECT NO.: 041207-SS4 BTS #
TELEPHONE: 408-573-0555	FAX: 408-573-7771
EMAIL: lgearhart@blainetech.com	
SAMPLER NAME(S) (Print): Sudeon Sung	LAB USE ONLY

TURNAROUND TIME (BUSINESS DAYS): ☒ 10 DAYS ☐ 5 DAYS ☐ 72 HOURS ☐ 48 HOURS ☐ 24 HOURS ☐ LESS THAN 24 HOURS

☐ LA - RWQCB REPORT FORMAT ☐ UST AGENCY:

GC/MS MTBE CONFIRMATION: HIGHEST ____ HIGHEST per BORING ____ ALL ____

SPECIAL INSTRUCTIONS OR NOTES: CHECK BOX IF EDD IS NEEDED ☑

REQUESTED ANALYSIS

FIELD NOTES: Container/Preservative or PID Readings or Laboratory Notes

3°C

TEMPERATURE ON RECEIPT C°

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	TPH - Gas, Purgeable	BTEX	MTBE (8021B - 5ppb RL)	MTBE (8260B - 0.5ppb RL)	Oxygenates (5) by (8260B)	TPH - Diesel, Extractable (8015m)	FIELD NOTES
	MW-3	12/7/04	1525	GW	3	X	X			X		

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
[signature]	[signature]	12/8/04	1201
[signature] 12/8/04 1546			
	Deena Harrington / STL-SF	12/08/04	1546

DISTRIBUTION: White with final report, Green to File, Yellow and Pink to Client.

10/16/00 Revision

Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

Blaine Tech Services, Inc.

Attn.: Leon Gearhart

1680 Rogers Avenue
San Jose, CA 95112-1105
Phone: (408) 573-0555 Fax: (408) 573-7771

Project: 041207-SS4
98995140

Received: 12/08/2004 12:01

Site: 2160 Otis Dr., Alameda

Legend and Notes

Result Flag

Q1

Quantit. of unknown hydrocarbon(s) in sample based on gasoline.

Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

Blaine Tech Services, Inc.

Attn.: Leon Gearhart

1680 Rogers Avenue
San Jose, CA 95112-1105
Phone: (408) 573-0555 Fax: (408) 573-7771

Project: 041207-SS4
98995140

Received: 12/08/2004 12:01

Site: 2160 Otis Dr., Alameda

Batch QC Report

Prep(s): 5030B Test(s): 8260B

Matrix Spike (MS / MSD) Water QC Batch # 2004/12/16-2A.68

MS/MSD Lab ID: 2004-12-0379 - 006

MS: 2004/12/16-2A.68-029 Extracted: 12/16/2004 Analyzed: 12/16/2004 18:29

Dilution: 1.00

MSD: 2004/12/16-2A.68-047 Extracted: 12/16/2004 Analyzed: 12/16/2004 18:47

Dilution: 1.00

Compound	Conc. ug/L			Spk.Level	Recovery %			Limits %		Flags	
	MS	MSD	Sample	ug/L	MS	MSD	RPD	Rec.	RPD	MS	MSD
Benzene	21.9	23.8	ND	25	87.6	95.2	8.3	69-129	20		
Toluene	22.4	24.3	ND	25	89.6	97.2	8.1	70-130	20		
Methyl tert-butyl ether	23.5	24.2	ND	25	94.0	96.8	2.9	65-165	20		
Surrogate(s)											
1,2-Dichloroethane-d4	424	411		500	84.8	82.3		73-130			
Toluene-d8	449	462		500	89.8	92.5		81-114			

Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

Blaine Tech Services, Inc.

Attn.: Leon Gearhart

1680 Rogers Avenue
San Jose, CA 95112-1105
Phone: (408) 573-0555 Fax: (408) 573-7771

Project: 041207-SS4
98995140

Received: 12/08/2004 12:01

Site: 2160 Otis Dr., Alameda

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Laboratory Control Spike — Water — **QC Batch #: 2004/12/16-2A.68**

LCS 2004/12/16-2A.68-021 — Extracted: 12/16/2004 — Analyzed: 12/16/2004 17:21

LCSD

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
Methyl tert-butyl ether (MTBE)	21.2		25	84.8			65-165	20		
Benzene	20.0		25	80.0			69-129	20		
Toluene	20.9		25	83.6			70-130	20		
Surrogates(s)										
1,2-Dichloroethane-d4	396		500	79.2			73-130			
Toluene-d8	442		500	88.4			81-114			

Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

Blaine Tech Services, Inc.

Attn.: Leon Gearhart

1680 Rogers Avenue
San Jose, CA 95112-1105
Phone: (408) 573-0555 Fax: (408) 573-7771

Project: 041207-SS4
98995140

Received: 12/08/2004 12:01

Site: 2160 Otis Dr., Alameda

Batch QC Report

Prep(s): 5030B
Test(s): 8260B

Method Blank Water **QC Batch # 2004/12/16-2A.68**

MB: 2004/12/16-2A.68-039 Date Extracted: 12/16/2004 17:39

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline [Shell]	ND	50	ug/L	12/16/2004 17:39	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	12/16/2004 17:39	
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	12/16/2004 17:39	
Di-isopropyl Ether (DIPE)	ND	2.0	ug/L	12/16/2004 17:39	
Ethyl tert-butyl ether (ETBE)	ND	2.0	ug/L	12/16/2004 17:39	
tert-Amyl methyl ether (TAME)	ND	2.0	ug/L	12/16/2004 17:39	
Benzene	ND	0.5	ug/L	12/16/2004 17:39	
Toluene	ND	0.5	ug/L	12/16/2004 17:39	
Ethylbenzene	ND	0.5	ug/L	12/16/2004 17:39	
Total xylenes	ND	1.0	ug/L	12/16/2004 17:39	
Surrogates(s)					
1,2-Dichloroethane-d4	91.1	73-130	%	12/16/2004 17:39	
Toluene-d8	89.4	81-114	%	12/16/2004 17:39	

Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

Blaine Tech Services, Inc.

Attn.: Leon Gearhart

1680 Rogers Avenue
San Jose, CA 95112-1105
Phone: (408) 573-0555 Fax: (408) 573-7771

Project: 041207-SS4
98995140

Received: 12/08/2004 12:01

Site: 2160 Otis Dr., Alameda

Prep(s): 5030B	Test(s): 8260B
Sample ID: MW-3	Lab ID: 2004-12-0414-1
Sampled: 12/07/2004 15:25	Extracted: 12/16/2004 23:26
Matrix: Water	QC Batch#: 2004/12/16-2A.68

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	120	50	ug/L	1.00	12/16/2004 23:26	Q1
Benzene	ND	0.50	ug/L	1.00	12/16/2004 23:26	
Toluene	ND	0.50	ug/L	1.00	12/16/2004 23:26	
Ethylbenzene	ND	0.50	ug/L	1.00	12/16/2004 23:26	
Total xylenes	ND	1.0	ug/L	1.00	12/16/2004 23:26	
tert-Butyl alcohol (TBA)	13	5.0	ug/L	1.00	12/16/2004 23:26	
Methyl tert-butyl ether (MTBE)	88	0.50	ug/L	1.00	12/16/2004 23:26	
Di-isopropyl Ether (DIPE)	ND	2.0	ug/L	1.00	12/16/2004 23:26	
Ethyl tert-butyl ether (ETBE)	ND	2.0	ug/L	1.00	12/16/2004 23:26	
tert-Amyl methyl ether (TAME)	ND	2.0	ug/L	1.00	12/16/2004 23:26	
Surrogate(s)						
1,2-Dichloroethane-d4	89.5	73-130	%	1.00	12/16/2004 23:26	
Toluene-d8	89.0	81-114	%	1.00	12/16/2004 23:26	

SEVERN TRENT STL

Submission: 2004-12-0414

Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

Blaine Tech Services, Inc.
Attn.: Leon Gearhart

1680 Rogers Avenue
San Jose, CA 95112-1105
Phone: (408) 573-0555 Fax: (408) 573-7771

Project: 041207-SS4
98995140

Received: 12/08/2004 12:01

Site: 2160 Otis Dr., Alameda

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
MW-3	12/07/2004 15:25	Water	1

SEVERN TRENT STL

Submission#: 2004-12-0414

Blaine Tech Services, Inc.

December 22, 2004

1680 Rogers Avenue
San Jose, CA 95112-1105

Attn.: Leon Gearhart

Project#: 041207-SS4
Project: 98995140
Site: 2160 Otis Dr., Alameda

Dear Mr.Gearhart,

Attached is our report for your samples received on 12/08/2004 12:01
This report has been reviewed and approved for release. Reproduction of this report is permitted only in its entirety.

Please note that any unused portion of the samples will be discarded after 01/22/2005 unless you have requested otherwise.
We appreciate the opportunity to be of service to you. If you have any questions,

You can also contact me via email. My email address is: mbrewer@stl-inc.com

Sincerely,

Melissa Brewer

Melissa Brewer
Project Manager

WELL CONCENTRATIONS
Former Shell Service Station
2160 Otis Street
Alameda, CA

Well ID	Date	TPPH (ug/L)	TEPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)

Abbreviations:
TPPH = Total petroleum hydrocarbons as gasoline by EPA Method 8260B; prior to March 22, 2001, analyzed by EPA Method 8015.
TEPH = Total extractable hydrocarbons as diesel by modified EPA Method 8015.
BTEX = Benzene, toluene, ethylbenzene, xylenes by EPA Method 8260B; prior to March 22, 2001, analyzed by EPA Method 8020.
MTBE = Methyl-tertiary-butyl ether
DIPE = Di-isopropyl ether, analyzed by EPA Method 8260B
ETBE = Ethyl tertiary butyl ether, analyzed by EPA Method 8260B
TAME = Tertiary amyl methyl ether, analyzed by EPA Method 8260B
TBA = Tertiary butyl alcohol, analyzed by EPA Method 8260B
TOC = Top of Casing Elevation
GW = Groundwater
BH-C = Grab Ground Water Sample
ug/L = parts per billion
msl = Mean sea level
ft = Feet
<n = Below detection limit

Notes:
a = Chromatogram pattern indicated an unidentified hydrocarbon.
b = Quantity of unknown hydrocarbon in sample based on gasoline.
Well MW-3 surveyed May 9, 2002, by Virgil Chavez Land Surveying of Vallejo, California.

WELL CONCENTRATIONS
Former Shell Service Station
2160 Otis Street
Alameda, CA

Well ID	Date	TPPH (ug/L)	TEPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)
MW-2	Well destroyed		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-3	3/20/2001	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5.23	NA
MW-3	3/22/2001	1,000	1,100	80	16	7.9	72	NA	72	NA	NA	NA	NA	NA	5.21	NA
MW-3	5/30/2001	3,100	<1,500	170	50	150	340	NA	100	NA	NA	NA	NA	NA	5.57	NA
MW-3	9/17/2001	130	130	0.79	<0.50	<0.50	<0.50	NA	180	NA	NA	NA	NA	NA	5.93	NA
MW-3	12/20/2001	1,800	<900	250	4.8	4.0	51	NA	13	NA	NA	NA	NA	NA	5.06	NA
MW-3	8/27/2003	2,900	NA	96	26	14	81	NA	7.2	NA	NA	NA	NA	9.22	5.71	3.51
MW-3	**12/7/2004**	**120 b**	**NA**	**<0.50**	**<0.50**	**<0.50**	**<1.0**	**NA**	**88**	**<2.0**	**<2.0**	**<2.0**	**13**	**9.22**	**6.05**	**3.17**
BH-C	12/17/1992	<50	<0.5	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA
BH-D	12/17/1992	<50	<0.5	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA
BH-E	12/17/1992	<50	<0.5	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA
TB	7/10/1990	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA
TB	10/9/1990	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA
TB	1/17/1991	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA
TB	4/9/1991	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA
TB	7/10/1991	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA
TB	10/9/1991	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA
TB	1/24/1992	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA
TB	4/23/1992	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA
TB	7/1/1992	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA
TB	10/2/1992	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA
TB	1/5/1993	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA
TB	4/8/1993	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA
TB	7/20/1993	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA
TB	10/15/1993	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA
TB	1/7/1994	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA
TB	4/13/1994	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA
TB	10/11/1994	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA
TB	11/1/1994	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA
TB	1/13/1995	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA
TB	4/20/1995	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA
TB	5/23/1995	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA

APPENDIX B

Site Closure Summary Form

SITE INFORMATION SUMMARY

I. SITE INFORMATION

Site Facility Name: Former Shell Service Station	
Site Facility Address: 2160 Otis Drive, Alameda, California	
RWQCB LUST Case No:	URF Filing Date: 9/26/95
Responsible Parties (include addresses and phone numbers)	
Former Operator: Shell Oil Products US	current property owner: Harsch Investment Group
20945 S. Wilmington Ave, Carson, CA 90810	523 West Plaza, Alameda, CA 94501
Attn: Karen Petryna (559) 645-9306	(510) 521-1515

Tank No.	Size in Gallons	Contents	Closed In-Place/Removed?	Date
1	550	Waste Oil	Removed	6/87
2	550	Waste Oil	Removed	6/6/89
3	10,000	Gasoline	Removed	9/4/97
4	10,000	Gasoline	Removed	9/4/97
5	10,000	Gasoline	Removed	9/4/97

II. INITIAL SITE ASSESSMENT (Information from previous investigations at nearby sites and other available sources may be used for applicable items if necessary)

Cause and Estimated Quantity of Release: Unknown		
Nearest Surface Water Bodies (including any unnamed creeks, tributaries, canals, etc.): A lagoon	Their Geographical Distances From the Site: 300 feet Northeast	
Nearest domestic Water Wells (both public and private) within 2000 ft.: None	Their Geographical Distances From the Site: NA	
Minimum Groundwater Depth: 3 feet	Max Depth: 6 feet	Flow Direction: N/NE
Site Ground Surface Elevation and Geology: Site ranges between three and 10 feet above sea level. Soil types consist of sand underlain by layers of silt and silty sand at varying depths and thickness.		
Current Site and Surrounding Land Use: Office Max, surrounding property is mixed commercial/residential		
Preferential Pathways Such as Subsurface Utilities? X Yes No If Yes, Describe: On the north side of the property are sewer and water lines, storm drains, electrical and telephone lines assessed during Dec-2003 investigation; no migration via utilities.		
Number of Soil Borings: 20	Number of Monitoring Wells: 1 current/3 destroyed	

III. REMEDIATION

Material	Amount (Include Units)	Action (Treatment or Disposal w/ Destination)	Date
Free Product	None		
Soil	41 yards	Disposal - Chemical Waste Management, Inc. Kettleman City, CA	6/15/87, 7/15/87, 6/15/87
	Unknown	Disposal - West Contra Costa County Sanitary Landfill, Richmond, CA	5/29/90
	~1050 yards	Disposal – Forward Incorporated, Manteca, CA	8/97
Groundwater	8 drums	Disposal by Crosby and Overton, Oakland, CA	5/29/90
	2 drums	Disposal by Crosby and Overton, Oakland, CA	7/10/90
Vapor	None		

COMMENTS

MAXIMUM DOCUMENTED SOIL POLLUTANT CONCENTRATIONS

POLLUTANT	Location	Soil (ppm)		POLLUTANT	Location	Soil (ppm)	
	Date(s)	Initial	Resid-ual		Date(s)	Initial	Resid-ual
TPH (Gas)	8/1/97 12/9/03	650 WO	<1.0 SB-1. 2	Xylene	9/4/97 12/9/03	22 D-4	<0.005 SB-1,2
TPH (Diesel)	8/1/97 12/9/03	4 3 WO	Not Tested	Ethylbenzene	9/4/97 12/9/03	2.4 D-4	<0.005 SB-1,2
Benzene	9/4/97 12/9/03	1.7 D-4	<0.005 SB-1,2	Oil & Grease	NA		
Toluene	9/4/97	9.3 D-4		Heavy Metals	Ba –SB-A Cr- SB-A Co- SB-A Cu - SB_G	60 39 7.3 15	Not Tested
	12/9/03		<0.005 SB-1,2		Hg - SB-D Ni – SB-A Ag – SB-H V – SB-A Zn – SB-A	0.040 46 47 28 33	
MTBE	9/4/97 12/9/03	0.49 C-north	<0 005 SB-1,2	Motor Oil	NA		
Chlorinated Solvents	NA			Other			

GROUNDWATER CONCENTRATION (ppb) TRENDS AT SOURCE AREAS & PLUME/SITE BOUNDARIES											
Date	Loca-tion	Benze-ene	MTBE	TPH-g	TPH-d	Toluene	Ethyl benzene	Xylene	Chlor. VOCs	Other TBA	DTW
3/22/01	MW-3	80	72	1000	1100	16	7 9	72	NT	NA	5.21
5/30/01	MW-3	170	100	3100	<1500	50	150	340	NT	NA	5.57
9/17/01	MW-3	0 79	180	130	130	<0.5	<0.5	<0 5	NT	NA	5 93
12/20/01	MW-3	250	13	1800	<900	4.8	4.0	51	NT	NA	5 06
8/27/03	MW-3	96	7.2	2900	NA	26	14	81	NT	NA	5.71
12/7/04	MW-3	<0.50	88	120	NA	<0 5	<0.5	<1.0	NT	13	6.05

IV. LIST TECHNICAL REPORTS, CORRESPONDENCE, ETC. IN CHRONOLOGICAL ORDER

See attached table listing technical reports and correspondence (Table 1 in **Attachment A**).

V. ENCLOSE FOLLOWING FIGURES AND TABLES

1. Site maps showing locations of existing buildings, former/current UST areas, subsurface utilities and other pathways, groundwater flow direction etc.

   Attachment B

2. Summary tables of all soil sampling results available, including any tank/excavation pit samples and confirmation samples, with sampling dates, location-identifications and depths (if applicable).
   Attachment C

3. Summary tables of all groundwater sampling results available, including depth to water/product measurements, with sampling dates and location-identifications.

   Attachment D

4. Figures showing all soil and groundwater sampling locations and monitoring well locations.
   Attachment B

Additional Comments:

The subject site has not been operated as a gasoline service station since 1997 when the petroleum tanks and equipment were removed The site has been redeveloped for commercial use as an Office Max. Surrounding property use is primarily commercial and residential. The nearest sensitive receptor to this site is surface water (lagoons) located approximately 300 feet northeast and downgradient of the site. Based on elevated levels of TDS, the groundwater in the vicinity of the site is considered nonpotable

In 2002, Cambria requested case closure from the Alameda County Health Care Services Agency (ACHCSA) The case worker atlte time requested additional information and monitoring of benzene concentrations in MW3 to determine whether the former gas station operations pose a threat to the lagoons, since benzene the concentration in MW3 at that time (250 ppb) was above the Ecological Protection Zone Tier 1 Standard of 71 ppb (electronic correspondence dated June 12, 2002 from Eva Chu of ACHCSA to Karen Petryna of Shell). The current benzene concentration is less than the detection limit of 0.50 ppb, and therefore well below the Ecological Protection Zone Tier 1 Standard, previously referenced. Further, the current constituent concentrations in well MW3 are well below the San Francisco Bay Regional Water Quality Board Environmental Screening Levels for protection of surface wat bodies

ATTACHMENT A

Table 1 – Chronologic List of Documents/Correspondence

Table 1. Former Shell Station, 2160 Otis Drive, Alameda, California

List of Technical Reports and Correspondence. Title/Subject	Company	Date
Sampling Report (Waste-oil UST removal)	Blaine Tech Services	6/16/1987
Sampling Report (Waste-oil UST removal)	Blaine Tech Services	6/25/1987
Preliminary Soil and Groundwater Investigation	Pacific Environmental Group	9/25/1987
Soil and Groundwater Investigation	Pacific Environmental Group	10/27/1987
Archival search for previously unpublished notes during waste-oil tank removal	Blaine Tech Services	6/26/1989
Quarterly Monitoring Report for 2q89	Weiss Associates	7/13/1989
Site Summary	Weiss Associates	7/13/1989
Letter regarding waste-oil tank removal and closure	Weiss Associates	10/13/1989
Transmittal of waste oil tank disposal manifests	Shell Oil Company	11/6/1989
Letter regarding scope of work for investigation	Weiss Associates	3/19/1990
Letter regarding drummed water and stockpiled soil disposal	Weiss Associates	5/31/1990
Quarterly Status Report - 2q90	Weiss Associates	7/25/1990
Letter regarding removal of drummed water	Weiss Associates	8/6/1990
Notice of Requirement to Reimburse	ACHCSA	3/27/1992
Letter requesting work plan	ACHCSA	6/17/1992
Letter responding to 6/17/92 letter	Weiss Associates	7/23/1992
Letter requesting work plan	ACHCSA	8/7/1992
Letter responding to 8/7/92 ACHCSA letter	Weiss Associates	9/2/1992
Letter regarding 9/2/92 work plan	ACHCSA	9/22/1992
Letter presenting results of subsurface investigation	Weiss Associates	2/24/1993
Letter approving sampling frequency reduction and requesting VOC analysis	ACHCSA	3/4/1993
Notice of Requirement to Reimburse	ACHCSA	5/25/1993
Revised Laboratory Report	Weiss Associates	6/28/1993
Letter requesting total oil and grease analysis	ACHCSA	7/28/1993
Revised QA/QC data for 1q93, 2q93 and 3q93	Weiss Associates	1/24/1994
Quarterly Groundwater Sampling Report	Blaine Tech Services	1/31/1994
Letter requesting work plan	ACHCSA	3/24/1994
Quarterly Groundwater Sampling Report	Blaine Tech Services	4/28/1994
Letter responding to 3/24/94 ACHCSA letter	Weiss Associates	5/6/1994
Letter requesting work plan	ACHCSA	5/17/1994
Quarterly Monitoring Report for 2q94	Weiss Associates	5/31/1994
Letter responding to 5/17/94 ACHCSA letter	Weiss Associates	6/13/1994
Work Plan / Closure Request	Weiss Associates	8/25/1994
Letter requesting work plan	ACHCSA	10/28/1994
Quarterly Groundwater Sampling Report	Blaine Tech Services	11/29/1994
Letter responding to 10/28/94 ACHCSA letter	Weiss Associates	1/26/1995
Letter regarding closure requirements	Weiss Associates	2/27/1995
Letter regarding investigation status	Weiss Associates	3/27/1995
Subsurface Investigation and Closure Report	Weiss Associates	5/23/1995
Quarterly Monitoring Report for 2q95	Weiss Associates	7/24/1995

Underground Storage Tank Unauthorized Release (Leak) / Contamination Site Report		9/26/1995
Third Quarter 1995 status report	Weiss Associates	11/2/1995
Letter granting no further action for the waste oil underground storage tank at the site	ACHCSA	11/14/1995
Groundwater Monitoring Well Abandonment	Weiss Associates	2/27/1996
Tank Removal and Sampling Report	Cambria Environmental	10/3/1997
Letter requesting further investigation	ACHCSA	11/13/1997
Investigation Work Plan	Cambria Environmental	11/25/1997
Work Plan approval letter	ACHCSA	12/10/1997
Investigation Report	Cambria Environmental	1/28/1998
Letter requesting monitoring well installation	ACHCSA	2/10/1998
Well Installation Work Plan	Cambria Environmental	3/25/1998
Work Plan approval letter	ACHCSA	3/30/1998
Letter supporting construction of Office Max building	ACHCSA	6/4/1998
Letter requesting monitoring well installation status	ACHCSA	5/22/2000
Quarterly Status Report - 1q00	Cambria Environmental	6/5/2000
Letter referencing delayed monitoring well installation	ACHCSA	6/12/2000
Letter referencing delayed Right-of-Entry agreement	Cambria Environmental	6/21/2000
Site Investigation Report	Cambria Environmental	4/10/2001
First Quarter 2001 Monitoring Report	Cambria Environmental	5/17/2001
Second Quarter 2001 Monitoring Report	Cambria Environmental	7/19/2001
Third Quarter 2001 Monitoring Report	Cambria Environmental	11/5/2001
Fourth Quarter 2001 & Closure Request	Cambria Environmental	2/26/2002
Letter of intent to determine that NFA is required or issue Closure Letter	ACHCSA	3/18/2003
Comments on ACHCSA Letter	Shell Oil Company	4/3/2002
Assorted electronic correspondence; ACHCSA expressed concerns re Lagoon	ACHCSA/Shell/Cambria	2002-2003
Subsurface Investigation Workplan	Cambria Environmental	9/16/2002
Electronic correspondence from Eva Chu of ACHCSA re assessing utilities	ACHCSA	10/2/2002
Electronic correspondence from Cambria with revised scope for utility assessment	Cambria Environmental	10/10/2002
Third Quarter 2003 Monitoring Report; stated intent to proceed with 2002 WP	Cambria Environmental	11/15/2003
Site Investigation Report	Cambria Environmental	11/30/2004
Fourth Quarter 2004 Monitoring Report and Request for Closure	Cambria Environmental	2/18/2005

Notes and Abbreviations:
ACHCSA = Alameda County Health Care Services Agency

ATTACHMENT B

Maps and Figures

ATTACHMENT C

Historical Soil Data Tables

Table 1. Soil Analytic Data - Shell Service Station WIC# 204-0072-0502, 2160 Otis Street, Alameda, California

Sample ID, Depth in ft	Sample Location	Date Sampled	TPPH (mg/kg)	TEPH (mg/kg)	TRPH (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	MTBE (mg/kg)
G-1, 3.5	Down gradient of UST pit	12/17/97	<1.0	---	---	<0.0050	<0.0050	<0.0050	<0.0050	0 028
G-2, 3.5	Down gradient of dispensers	12/17/97	<1.0	---	---	<0.0050	<0.0050	<0.0050	<0 0050	<0.025
G-3, 3.5	Down gradient of waste oil tank	12/17/97	<1.0	<1.0	110	<0.0050	<0.0050	<0.0050	<0.0050	<0.025
G-4, 3.5	North corner	12/17/97	<1.0	---	---	<0.0050	<0.0050	<0.0050	<0 0050	<0.025
G-5, 3.5	North corner	12/17/97	<1.0	---	---	<0.0050	<0.0050	<0.0050	<0.0050	<0.025
G-6, 3.5	Dispensers	12/17/97	5.2	---	---	0.0059	0.041	0.025	0.70	<0.025
G-6, 7.5	Dispensers	12/17/97	<1.0	---	---	<0.0050	<0.0050	<0.0050	<0.0050	<0.025
G-7, 3.5	Dispensers	12/17/97	<1.0	---	---	<0.0050	<0.0050	<0.0050	<0.0050	<0.025
G-7, 7.5	Dispensers	12/17/97	<1.0	---	---	<0.0050	<0.0050	<0.0050	<0.0050	<0.025

mg/kg = Milligrams per kilogram
TPPH = Total purgable petroleum hydrocarbons (gasoline) by modified EPA Method 8015
TEPH = Total extractable petroleum hydrocarbons (diesel) by modified EPA Method 8015
TRPH = Total recoverable petroleum hydrocarbons (oil and grease) by Standard Method 5520 E&F
MTBE = Methyl tert-butyl ether by EPA Method 8020
Benzene, toluene, ethylbenzene, and xylenes by EPA Method 8020
UST = Underground storage tank
<n = Below detection limit of n mg/kg
--- = Not analyzed

Table 1. Soil Analytic Data - Gasoline Components - Shell Service Station WIC# 204-0072-0502, 2160 Otis Street, Alameda, California

Sample ID	Sample Location	Date Sampled	TPPH (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	MTBE (mg/kg)
D-1	Dispensers	9/4/1997	<1.0	<0.0050	<0 0050	<0.0050	<0.0050	<0.025
D-2	Dispensers	9/4/1997	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.025
D-3	Dispensers	9/4/1997	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.025
D-4	Dispensers	9/4/1997	270	1.7	9.3	2.4	22	<1 2
D-5	Dispensers	9/4/1997	5.5	0.011	<0 010	0.010	0.035	0 32
D-6	Dispensers	9/4/1997	1.3	<0.0050	<0.0050	<0.0050	<0.0050	<0.025
A-North	Gasoline Tank Pit	9/4/1997	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.025
B-North	Gasoline Tank Pit	9/4/1997	<1.0	0.11	<0.0050	0.0081	0.0089	<0.025
C-North	Gasoline Tank Pit	9/4/1997	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	0.49
A-South	Gasoline Tank Pit	9/4/1997	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.025
B-South	Gasoline Tank Pit	9/4/1997	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.025
C-South	Gasoline Tank Pit	9/4/1997	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	0.056
Hoist-1	Hoist	9/4/1997	---	<0.0050	<0.0050	<0.0050	<0.0050	<0.025
Hoist-2	Hoist	9/4/1997	---	<0.0050	<0.0050	<0.0050	<0.0050	<0 025
OWS-1	Oil/Water Separator	9/4/1997	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0 025
WO-1	Waste Oil Tank Pit	9/4/1997	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0 025

mg/kg = milligrams per kilogram
TPPH = Total purgable petroleum hydrocarbons (gasoline) by modified EPA Method 8015
MTBE = Methyl tert-butyl Ether by EPA Method 8020
Benzene, toluene, ethylbenzene, and xylenes by EPA Method 8020
<n = Below detection limit of n mg/kg

Table 1. Soil Analytic Data for Petroleum Hydrocarbons - Shell Service Station WIC# 204-0072-0502, 2160 Otis Street, Alameda, California

Boring Number	Date Sampled	Depth (ft-BGS)	TPPH (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)
SB-A	8/1/1997	5.0	46	0.15	0.064	0.23	1.2
SB-A	8/1/1997	7.5	14	<0.012	0.052	0.14	0.67
SB-A	8/1/1997	10.0	<1.0	<0.0050	<0.0050	<0.0050	0.017
SB-A	8/1/1997	12.5	71	<0.050	<0.050	0.098	0.85
SB-A	8/1/1997	15.5	<1.0	<0.0050	<0.0050	<0.0050	<0.0050
SB-B	8/1/1997	4.0	1.2	0.013	<0.0050	0.014	0.088
SB-B	8/1/1997	7.5	<1.0	<0.0050	<0.0050	<0.0050	<0.0050
SB-B	8/1/1997	10.0	<1.0	<0.0050	<0.0050	<0.0050	<0.0050
SB-B	8/1/1997	12.0	<1.0	<0.0050	<0.0050	<0.0050	<0.0050
SB-B	8/1/1997	15.5	<1.0	<0.0050	<0.0050	<0.0050	<0.0050
SB-C	8/1/1997	6.0	13	<0.0050	<0.0050	0.032	0.019
SB-C	8/1/1997	7.5	<1.0	<0.0050	<0.0050	<0.0050	<0.0050
SB-C	8/1/1997	10.0	<1.0	<0.0050	<0.0050	<0.0050	<0.0050
SB-C	8/1/1997	14.0	<1.0	<0.0050	<0.0050	<0.0050	<0.0050
SB-C	8/1/1997	15.5	<1.0	<0.0050	<0.0050	<0.0050	<0.0050
SB-D	8/1/1997	5.5	16	<0.012	0.036	0.096	0.17
SB-D	8/1/1997	7.5	<1.0	<0.0050	<0.0050	<0.0050	<0.0050
SB-D	8/1/1997	9.5	2.6	<0.0050	0.0052	0.0080	0.043
SB-D	8/1/1997	11.5	<1.0	<0.0050	<0.0050	<0.0050	<0.0050
SB-D	8/1/1997	15.5	<1.0	<0.0050	<0.0050	<0.0050	<0.0050
SB-E	8/1/1997	6.0	1.1	0 031	0.13	<0.0050	0.25
SB-E	8/1/1997	7.5	<1.0	<0.0050	<0.0050	<0.0050	<0.0050
SB-E	8/1/1997	10.5	1.3	0.0061	0.042	<0.0050	0.13
SB-E	8/1/1997	12.5	<1.0	<0.0050	<0.0050	<0.0050	<0.0050
SB-E	8/1/1997	15.5	<1.0	<0.0050	<0.0050	<0.0050	<0.0050
SB-F	8/1/1997	4.0	1.1	0.0059	0.011	<0.0050	0.025
SB-F	8/1/1997	7.5	<1.0	<0 0050	<0.0050	<0.0050	<0 0050
SB-F	8/1/1997	10.0	<1.0	<0.0050	<0.0050	<0.0050	<0.0050
SB-F	8/1/1997	12.0	<1.0	<0.0050	<0.0050	<0.0050	<0.0050
SB-F	8/1/1997	15.5	<1.0	<0.0050	<0.0050	<0.0050	<0.0050

Table 1. Soil Analytic Data for Petroleum Hydrocarbons - Shell Service Station WIC# 204-0072-0502, 2160 Otis Street, Alameda, California

Boring Number	Date Sampled	Depth (ft-BGS)	TPPH (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)
SB-G	8/1/1997	4.0	<1.0	<0.0050	<0.0050	<0.0050	<0.0050
SB-G	8/1/1997	7.5	<1.0	<0.0050	<0.0050	<0.0050	<0.0050
SB-G	8/1/1997	10.0	<1.0	<0.0050	<0.0050	<0.0050	<0.0050
SB-G	8/1/1997	12.0	<1.0	<0.0050	<0.0050	<0.0050	<0.0050
SB-G	8/1/1997	15.5	<1.0	<0.0050	<0.0050	<0.0050	<0.0050
SB-H	8/1/1997	4.0	<1.0	<0.0050	<0.0050	<0.0050	<0.0050
SB-H	8/1/1997	7.5	<1.0	<0.0050	<0.0050	<0.0050	0.0056
SB-H	8/1/1997	10.0	<1.0	<0.0050	<0.0050	<0.0050	<0.0050
SB-H	8/1/1997	12.0	<1.0	<0.0050	<0.0050	<0.0050	<0.0050
SB-H	8/1/1997	15.5	<1.0	<0.0050	<0.0050	<0.0050	<0 0050

mg/kg = milligrams per kilogram

TPPH = Total purgable petroleum hydrocarbons by modified EPA Method 8015

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

<n = Below detection limit of n mg/kg

ft-BGS = Feet below ground surface

Table 3. Soil Analytic Data for Waste Oil Petroleum Hydrocarbons - Shell Service Station WIC# 204-0072-0502, 2160 Otis Street, Alameda, California

Boring Number	Date Sampled	Depth (ft-BGS)	TRPH (mg/kg)	TPPH (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)
WO	8/1/1997	4.0	650	<1.0	<0.0050	<0.0050	<0.0050	<0.0050
WO	8/1/1997	7.5	26	<1.0	<0.0050	<0.0050	<0.0050	<0.0050
WO	8/1/1997	10.0	26	<1.0	<0.0050	<0.0050	<0.0050	<0.0050
WO	8/1/1997	12.0	33	<1.0	<0.0050	<0.0050	<0.0050	<0.0050
WO	8/1/1997	15.5	72	4.3	0.0095	0.026	0.12	0.54
WO	8/1/1997	17.0	35	<1.0	<0.0050	<0.0050	0.0098	0.018
WO	8/1/1997	18.0	37	<1.0	<0.0050	<0 0050	0.0077	0.015

mg/kg = milligrams per kilogram

TRPH = Total recoverable petroleum hydrocarbons by EPA Method 418.1

TPPH = Total purgable petroleum hydrocarbons by modified EPA Method 8015

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

<n = Below detection limit of n mg/kg

ft-BGS = feet below ground surface

Table 1. Soil Analytical Data - Former Shell Service Station, Incident # 98995140, 2160 Otis Drive, Alameda, California

Sample ID	Depth (ft)	Date Sampled	TPHg	TPHd	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes
			← Concentrations reported in milligrams per kilogram (mg/kg or ppm) →						
MW-3-6.5	6.5	11/2/00	<1.00	**7.00**	<0.0500	<0.00500	<0.00500	<0.00500	<0.00500
MW-3-10.5	10.5	11/2/00	<1.00	<1.00	<0.0500	<0.00500	<0.00500	<0.00500	<0.00500
MW-3-17.5	17.5	11/2/00	<1.00	<1.00	<0.0500	<0.00500	<0.00500	<0.00500	<0.00500

Notes and Abbreviations:

TPHg = Total petroleum hydrocarbons as gasoline
TPHd = Total petroleum hydrocarbons as diesel
All analyses performed by EPA Method 8260B
<n = Below detection limit of n mg/kg
NA = not analyzed

Table 3. Soil Analytic Data - Total Metals - Shell Service Station WIC# 204-0072-0502, 2160 Otis Street, Alameda, California

Sample ID	Sample Location	Date Sampled	Cadmium (mg/kg)	Chromium (mg/kg)	Lead (mg/kg)	Nickel (mg/kg)	Zinc (mg/kg)
D-1	Dispensers	9/4/1997	---	---	<5.0	---	---
D-2	Dispensers	9/4/1997	---	---	<5.0	---	---
D-3	Dispensers	9/4/1997	---	---	<5.0	---	---
D-4	Dispensers	9/4/1997	---	---	<5.0	---	---
D-5	Dispensers	9/4/1997	---	---	<5.0	---	---
D-6	Dispensers	9/4/1997	---	---	<5.0	---	---
A-North	Gasoline Tank Pit	9/4/1997	---	---	<5.0	---	---
B-North	Gasoline Tank Pit	9/4/1997	---	---	<5.0	---	---
C-North	Gasoline Tank Pit	9/4/1997	---	---	<5.0	---	---
A-South	Gasoline Tank Pit	9/4/1997	---	---	<5.0	---	---
B-South	Gasoline Tank Pit	9/4/1997	---	---	<5.0	---	---
C-South	Gasoline Tank Pit	9/4/1997	---	---	<5.0	---	---
OWS-1	Oil/Water Separator	9/4/1997	<0.50	20	<5.0	16	15
WO-1	Waste Oil Tank Pit	9/4/1997	<0.50	19	<5.0	14	13

mg/kg = milligrams per kilogram
ND = Not detected. Detection limits vary by compound, see laboratory report for specifics.
<n = Below detection limit of n mg/kg
--- = Not Analyzed

Table 2. Soil Analytic Data for Metals - Shell Service Station WIC# 204-0072-0502, 2160 Otis Street, Alameda, California

Boring Number	Date Sampled	Sample Depth (ft-BGS)	Barium Ba (mg/kg)	Chromium Cr (mg/kg)	Cobalt Co (mg/kg)	Copper Cu (mg/kg)	Mercury Hg (mg/kg)	Nickel Ni (mg/kg)	Silver Ag (mg/kg)	Vanadium V (mg/kg)	Zinc Zn (mg/kg)
SB-(A,B,C,D,)	8/1/1997	15.5	35	27	4.7	6.3	<0.020	25	<0.50	22	20
SB-(E,F,G,H)	8/1/1997	15.5	34	25	4.5	6.0	<0.020	25	<0.50	20	22
SB-A	8/1/1997	5.0,7.5,10.0,12.5	60	39	7.3	13	<0.020	46	<0.50	28	33
SB-B	8/1/1997	4.0,7.5,10.0,12.0	48	25	4.8	5.9	<0.020	23	<0.50	20	19
SB-C	8/1/1997	6.0,7.5,10.0,14.0	29	23	3.9	4.0	0.021	18	<0.50	17	14
SB-D	8/1/1997	5.5,7.5,9.5,11.5	43	19	4.1	6.7	0.040	18	<0.50	15	16
SB-E	8/1/1997	6.0,7.5,10.5,12.5	29	20	4.5	6.1	<0.020	22	<0.50	18	20
SB-F	8/1/1997	4.0,7.5,10.0,12.0	42	24	4.5	5.0	<0.020	23	<0.50	18	18
SB-G	8/1/1997	4.0,7.5,10.0,12.0	39	24	5.6	15	<0.020	21	<0.50	18	17
SB-H	8/1/1997	4.0,7.5,10.0,12.0	43	20	3.6	4.3	<0.020	18	47	15	14

Notes:

Samples analyzed for inorganic persistent and bioaccumulative toxic substances per Title 22

mg/kg = milligrams per kilogram

Only constituents that were detected are reported here. For the complete suite of analytes, see lab report.

<n = below detection limit of n mg/kg

ft-BGS = feet below ground surface

Table 4. Soil Analytic Data for Waste Oil Metals - Shell Service Station WIC# 204-0072-0502, 2160 Otis Street, Alameda, California

Boring Number	Date Sampled	Sample Depth (ft-BGS)	Barium Ba (mg/kg)	Chromium Cr (mg/kg)	Cobalt Co (mg/kg)	Copper Cu (mg/kg)	Mercury Hg (mg/kg)	Nickel Ni (mg/kg)	Silver Ag (mg/kg)	Vanadium V (mg/kg)	Zinc Zn (mg/kg)
WO	8/1/1997	4.0,7.5,10.0,12.0	38	25	4.3	5.3	<0.020	21	<0.50	18	15
WO	8/1/1997	15.5,17.0,18.0	18	22	3.8	4.5	<0.020	18	<0.50	16	17

Notes:
Samples analyzed for inorganic persistent and bioaccumulative toxic substances per Title 22
mg/kg = milligrams per kilogram
Only constituents that were detected are reported here. For the complete suite of analytes, see lab report.
<n = below detection limit of n mg/kg
ft-BGS = feet below ground surface

Table 6. Soil Analytic Data for Waste Oil TCLP Metals - Shell Service Station WIC# 204-0072-0502, 2160 Otis Street, Alameda, California

Boring Number	Date Sampled	Sample Depth (ft-BGS)	Arsenic As (mg/L)	Barium Ba (mg/L)	Cadmium Cd (mg/L)	Chromium Cr (mg/L)	Lead Pb (mg/L)	Mercury Hg (mg/L)	Selenium Se (mg/L)	Silver Ag (mg/L)
WO	8/1/1997	4.0,7.5,10.0,12.0	<0.10	0.56	<0.010	<0.010	<0.10	<0 00020	<0.10	<0 010
WO	8/1/1997	15.5,17.0,18.0	0.12	0.31	<0.010	<0.010	<0.10	<0.00020	<0.10	2.3

Notes:

Samples analyzed by Toxicity Characteristic Leaching Procedures, EPA Method 6010/7470

mg/L = milligrams per liter

<n = Below detection limit of n mg/L

ft-BGS = Feet below ground surface

Table 2. Soil Analytic Data - Other Components - Shell Service Station WIC# 204-0072-0502, 2160 Otis Street, Alameda, California

Sample ID	Sample Location	Date Sampled	TEPH (mg/kg)	TRPH (mg/kg)	VOCs (mg/kg)	SVOCs (mg/kg)
Hoist-1	Hoist	9/4/1997	<1.0	---	---	---
Hoist-2	Hoist	9/4/1997	<1.0	---	---	---
OWS-1	Oil/Water Separator	9/4/1997	<1.0	<50	ND	ND
WO-1	Waste Oil Tank Pit	9/4/1997	<1.0	<50	ND	ND

mg/kg = milligrams per kilogram

TEPH = Total extractable petroleum hydrocarbons (diesel) by modified EPA Method 8015

TRPH = Total recoverable petroleum hydrocarbons (oil and grease) by Standard Method 5520 E&F

VOCs = Volatile Organic Compounds by EPA Method 8010

SVOCs = Semi-Volatile Organic Compounds by EPA Method 8270

ND = Not detected. Detection limits vary by compound, see laboratory report for specifics.

<n = Below detection limit of n mg/kg

--- = Not Analyzed

Table 5. **Soil Analytic Data for Waste Oil Polychlorinated Biphenyls** - Shell Service Station WIC# 204-0072-0502, 2160 Otis Street, Alameda, California

Boring Number	Date Sampled	Depth (ft-BGS)	PCB -1016 (mg/kg)	PCB - 1221 (mg/kg)	PCB - 1232 (mg/kg)	PCB - 1242 (mg/kg)	PCB - 1248 (mg/kg)	PCB - 1254 (mg/kg)	PCB - 1260 (mg/kg)
WO	8/1/1997	4.0,7.5,10.0,12.0	<0.020	<0.080	<0.020	<0.020	<0.020	<0.020	<0.020
WO	8/1/1997	15.5,17.0,18.0	<0.020	<0.080	<0.020	<0.020	<0.020	<0.020	<0.020

mg/kg = milligrams per kilogram

PCB = Polychlorinated Biphenyls by EPA Method 8080

<n = Below detection limit of n mg/kg

ft-BGS = Feet below ground surface

Table 7. Soil Analytic Data by TCLP Semivolatiles- Shell Service Station WIC# 204-0072-0502, 2160 Otis Street, Alameda, California

Boring Number	Date Sampled	Sample Depth (ft-BGS)	Total Creosote (mg/L)	1,4 DCB (mg/L)	2,4 DTT (mg/L)	HCB (mg/L)	HC 1,3-BD (mg/L)	HCE (mg/L)	NB (mg/L)	PCP (mg/L)	Pyri-dine (mg/L)	2,4,5 TCP (mg/L)	2,4,6 TCP (mg/L)
WO	8/1/1997	4.0,7.5,10.0,12.0	<0.0080	<0.0080	<0.0080	<0.0080	<0.0080	<0.0080	<0.0080	<0 040	<0.040	<0.040	<0.0080
WO	8/1/1997	15.5,17.0,18.0	<0.0080	<0.0080	<0.0080	<0.0080	<0.0080	<0.0080	<0.0080	<0 040	<0.040	<0.040	<0.0080

Notes:
Samples analyzed by Semivolatile Toxicity Characteristic Leaching Procedures, EPA Method 6010/7470
mg/L = milligrams per liter
<n = below detection limit of n mg/L
ft-BGS = feet below ground surface
DCB = Dichlorobenzene
DTT = Dinitrotoluene
HCB = Hexachlorobenzene
HC 1,3 BD = Hexachloro-1,3-butadiene
HCE = Hexachloroethane
NB = Nitrobenzene
PCP = Pentachlorophenol
TCP = Trichlorophenol

Table 8. Soil Analytic Data by TCLP Volatiles- Shell Service Station WIC# 204-0072-0502, 2160 Otis Street, Alameda, California

Boring Number	Date Sampled	Sample Depth (ft-BGS)	Benzene (mg/L)	Carbon tetrachloride (mg/L)	Chloro-benzene (mg/L)	Chloro-form (mg/L)	1,2 DCA (mg/L)	1,1 DCE (mg/L)	MEK (mg/L)	PCE (mg/L)	TCE (mg/L)	Vinyl Chloride (mg/L)
WO	8/1/1997	4.0,7.5,10.0,12.0	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.10	<0.020	<0.020	<0.020
WO	8/1/1997	15.5,17.0,18.0	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.10	<0.020	<0.020	<0.020

Notes:
Samples analyzed by Volatile Toxicity Characteristic Leaching Procedures, EPA Method 8240
mg/L = milligrams per liter
<n = below detection limit of n mg/L
ft-BGS = feet below ground surface
DCA = Dichloroethane
DCE = Dichloroethylene
MEK = Methyl ethyl ketone
PCE = Tetrachloroethylene
TCE = Trichloroethylene

Table 2. Soil Analytical Data, Former Shell Service Station, 2160 Otis Drive, Alameda, California

Sample ID	Depth (ft)	Date Sampled	TPHg mg/kg	Benzene mg/kg	Toluene mg/kg	Ethyl benzene mg/kg	Total xylenes mg/kg	MTBE mg/kg
SB-1-5	5	09-Dec-03	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
SB-2-5	5	09-Dec-03	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
SB-3-5	5	09-Dec-03	<1.0	<0.0050	**0.062**	**0.014**	**0.063**	<0.0050
SB-4-5	5	09-Dec-03	<1.0	<0 0050	<0.0050	<0.0050	<0.0050	<0.0050
SB-5-5	5	09-Dec-03	<1.0	<0.0050	<0.0050	<0 0050	<0.0050	<0.0050

Abbreviations:

TPHg = Total petroleum hydrocarbon as gasoline by EPA Method 8260

Benzene, toluene, ethyl benzene, total xylenes by EPA Method 8260

MTBE = Methyl tertiary butyl ether, analyzed by EPA Method 8260

ft = Feet

mg/kg = Milligrams per kilogram

<x = Not detected at detection limit x

ATTACHMENT D

Historical Groundwater Data Tables

TABLE 1. Analytic Results for Ground Water, Shell Service Station WIC #204007205, Alameda, California

Sample ID	Depth ft	Date Sampled	Sampled By	Analytic Lab	Analytic Method	TPH-D	TPH-O/JF	B	E	T	X	TOG	VOCs
						<----------parts per million---------->							
Excavation Soil #2	7	6-15-87	BT	SAL	3550/503E/8015/ 8010/8020	<1.0	NA	<0.050	<0.050	<0.050	NA	1,700	ND
Excavation Soil #3	3.5	6-15-87	BT	SAL	3550/503E	NA	NA	NA	NA	NA	NA	47	NA
Excavation Water	-	6-15-87	BT	SAL	3550/503E	NA		NA	NA	NA	NA	<5	NA
Soil Boring Soil #S1-1	51	9-04-87	PEG	IT	3550/503E/8015	<35	385	NA	NA	NA	NA	1,600	NA
Soil Boring Soil #S1-2	10	9-04-87	PEG	IT	8240/3550/ 503E/8015	<10	108	<0.005	<0.005	<0.005	<0.005	460	ND
Soil Boring Soil #S1-3	15	9-04-87	PEG	IT	3550/503E/8015	<10	16	NA	NA	NA	NA	70	NA
Soil Boring Soil #S1-4	20	9-04-87	PEG	IT	3550/503E/8015	<10	87	NA	NA	NA	NA	320	NA
Ground Water	-	9-04-87	PEG	IT	624	NA	NA	<0.005	<0.005	<0.005	<0.005	NA	1*

Abbreviations

TPH-D = Total Petroleum Hydrocarbons as Diesel
TPH-O/JF = Total Petroleum Hydrocarbons as Oil and Jet Fuel
B = Benzene
E = Ethylbenzene
T = Toluene
X = Xylenes
TOG = Total Oil and Gas
VOCs = Volatile Organic Compounds
ppm = parts per million or μ/kg
NA = Not Analyzed
BT = Blaine Tech Services, San Jose, California
PEG = Pacific Environmental Group Inc., Santa Clara, California
SAL = Sequoia Analytical Labs, Redwood City, California
IT = International Technology Corp., Santa Clara, California
ND = Not detected at detection limits between 0.005 and 0.05 ppm

Footnotes

1* = Unknown Alcohol detected at 7 ppb, and Acetone detected at 270 ppb

Analytic Methods

3550 = EPA Method 3550, Sonification Extraction
503E = American Public Health Association Standard Method 503E, Gravimetric Quantitation
8015 = EPA Method 8015, Gas Chromatography with Flame Ionization Detection
8010 = EPA Method 8010, Gas Chromatography with Hall Detection
8020 = EPA Method 8020, Gas Chromatography with Photo Ionization Detection
8240 = EPA Method 8240, Gas Chromatography Mass Spectroscopy (GC/MS)
624 = EPA Method 624, Purge and Trap - GC/MS

Table 1. Ground Water Elevations - Shell Service Station WIC #204-0072-0502, 2160 Otis Drive, Alameda, California

Well ID	Date	Top-of-Casing Elevation (ft above msl)	Depth to Water (ft)	Ground Water Elevation (ft above msl)
MW-1	04/11/90	6.00	5.23	0.77
	07/10/90		5.40	0.60
	10/09/90		5.61	0.39
	01/17/91		5.66	0.34
	04/09/91		4.96	1.04
	07/10/91		5.52	0.48
	10/09/91		5.70	0.30
	01/24/92		5.51	0.49
	04/23/92		5.14	0.86
	07/01/92		4.48	1.52
	10/02/92		5.80	0.20
	01/05/93		5.34	0.66
	04/08/93		4.62	1.38
	07/20/93		5.20	0.80
	10/15/93		4.37	1.63
	01/07/94		5.26	0.74
	04/13/94		**5.01**	**0.99**
MW-2	04/11/90	3.29	4.51	-1.22
	07/10/90		4.61	-1.32
	10/09/90		4.74	-1.45
	01/17/91		4.73	-1.44
	04/09/91		4.09	-0.80
	07/10/91		4.66	-1.37
	10/09/91		4.81	-1.52
	01/24/92		4.66	-1.37
	04/23/92		4.51	-1.22
	07/01/92		4.57	-1.28
	10/02/92		4.80	-1.51
	01/05/93		4.39	-1.1
	04/08/93		4.15	-0.86
	07/20/93		4.40	-1.11
	10/15/93		5.41	-2.12
	01/07/94		4.34	-1.05
	04/13/94		**4.29**	**-1.00**
S-1	09/11/90	5.10	4.29	0.81
	04/11/90		4.00	1.10
	07/10/90		4.25	0.85
	10/09/90		4.46	0.64

-- Table 1 continues on next page --

Table 1. Ground Water Elevations - Shell Service Station WIC #204-0072-0502, 2160 Otis Drive, Alameda, California (continued)

Well ID	Date	Top-of-Casing Elevation (ft above msl)	Depth to Water (ft)	Ground Water Elevation (ft above msl)
	01/17/91		4.53	0.57
	04/09/91		4.20	0.90
	07/10/91		4.42	0.68
	10/09/91		4.87	0.23
	01/24/92		4.90	0.20
	04/23/92		4.66	0.44
	07/01/92		4.85	0.25
	10/02/92		4.80	0.30
	01/05/93		5.38	-0.28
	04/08/93		3.69	1.41
	07/20/93		4.20	0.90
	10/15/93		4.38	0.72
	01/07/94		4.19	0.91
	04/17/94		4.03	1.07

Table 2A. Analytic Results for Ground Water - Petroleum Hydrocarbons - Shell Service Station WIC #204-0072-0502, 2160 Otis Drive, Alameda, California

Well ID (Sampling Frequency)	Date Sampled	Depth to Water (ft)	TPH-G	TPH-D	B	E	T	X	POG
			<----------parts per billion (µg/L)---------->						
S-1	09/04/87		---	---	<5	<5	<5	<5	---
(Annually	09/11/89[a]	4.29	<50	<100	<0.5	<1	<1	<3	<1,000
1st Qtr)	04/11/90	4.00	<50	<50	<0.5	<0.5	<0.5	<0.5	<10,000
	07/10/90	4.25	<90	---	<0.5	<0.5	<0.5	<0.5	<10,000
	10/09/90	4.46	<50	---	<0.5	<0.5	<0.5	<0.5	<5,000
	01/17/91	4.53	<50	---	<0.5	<0.5	<0.5	<0.5	---
	04/09/91	4.20	<50	---	<0.5	<0.5	<0.5	<0.5	---
	07/10/91	4.42	<50	---	<0.5	<0.5	<0.5	<0.5	---
	10/09/91	4.87	<50	---	<0.5	<0.5	<0.5	<0.5	---
	01/24/92	4.90	<50	---	<0.5	<0.5	<0.5	<0.5	---
	04/23/92	4.66	<50	---	<0.5	<0.5	<0.5	<0.5	---
	07/01/92	4.85	<50	---	<0.5	<0.5	<0.5	<0.5	---
	10/02/92	5.80	<50	---	<0.5	<0.5	<0.5	<0.5	---
	01/05/93	5.38	<50	---	<0.5	<0.5	<0.5	<0.5	---
	01/07/94	4.19	<50	---	<0.5	<0.5	<0.5	<0.5	---
	01/07/94	4.19	<50	---	<0.5	<0.5	<0.5	<0.5	---
MW-1	04/11/90	5.23	<50	<50	<0.5	<0.5	<0.5	<0.5	<10,000
(Annually	07/10/90	5.40	100	---	<0.5	<0.5	<0.5	<0.5	<10,000
1st Qtr)	10/09/90	5.61	<50	---	<0.5	<0.5	<0.5	<0.5	<5,000
	01/17/91	5.66	<50	---	<0.5	<0.5	<0.5	<0.5	---
	04/09/91	4.96	<50	---	<0.5	<0.5	<0.5	<0.5	---
	07/10/91	5.52	<50	---	<0.5	<0.5	<0.5	<0.5	---
	10/09/91	5.70	<50	---	<0.5	<0.5	<0.5	<0.5	---
	01/24/92	5.51	<50	---	<0.5	<0.5	<0.5	<0.5	---
	04/23/92	5.14	<50	---	<0.5	<0.5	<0.5	<0.5	---
	07/01/92	4.48	<50	---	<0.5	<0.5	<0.5	<0.5	---
	10/02/92	4.80	<50	---	<0.5	<0.5	<0.5	<0.5	---
	01/05/93	5.34	<50	---	<0.5	<0.5	<0.5	<0.5	---
	01/05/93[dup]	5.34	<50	---	<0.5	<0.5	<0.5	<0.5	---
	01/07/94	5.26	<50	---	<0.5	<0.5	<0.5	<0.5	---
MW-2	04/11/90	4.51	200[b]	220	2.7	<0.5	0.5	2.4	<10,000
(Quarterly)	07/10/90	4.61	570[b]	450	150	<0.5	0.9	3.1	<10,000
	10/09/90	4.74	190[b]	51	55	<0.5	<0.5	<0.5	<5,000
	01/17/91	4.73	350[b]	<50	51	<0.5	<0.5	<0.5	---
	04/09/91	4.09	---	<50	21	<5	<5	<5	---
	07/10/91	4.66	50[b]	<50	8.4	<0.5	<0.5	<0.5	---
	10/09/91	4.81	150	---	22	<0.5	<0.5	<0.5	---
	01/24/92	4.66	<50	---	4.8	<0.5	<0.5	<0.5	---
	04/23/92	4.51	<50	---	2.3	1.5	<0.5	<0.5	---
	07/01/92	4.57	130[c]	---	19	<0.5	<0.5	<0.5	---
	10/02/92	4.80	120[c]	---	7.8	<0.5	<0.5	<0.8	---
	01/05/93	4.39	200[c]	---	9.0	<0.5	0.6	1.8	---

-- Table 2A continues on next page --

Table 2A. Analytic Results for Ground Water - Petroleum Hydrocarbons - Shell Service Station WIC #204-0072-0502, 2160 Otis Drive, Alameda, California (continued)

Well ID (Sampling Frequency)	Date Sampled	Depth to Water (ft)	TPH-G	TPH-D	B	E	T	X	POG
			<----------parts per billion (µg/L)---------->						
	04/08/93	4.15	170[c]	---	9.6	<0.5	<0.5	1.6	---
	07/20/93	4.40	80[d]	---	16	1.3	1.4	6.1	---
	10/15/93	4.38	400[c]	---	37	0.6	1.1	4.7	---
	01/07/94	4.34	86[d]	---	12	<0.5	<0.5	1.1	<500
	04/13/94	4.29	<50	---	14	<0.5	<0.5	<0.5	---
BH-C	12/17/92	5.0	<50	<0.5	<0.5	<0.5	<0.5	<0.5	---
BH-D	12/17/92	5.0	<50	<0.5	<0.5	<0.5	<0.5	<0.5	---
BH-E	12/17/92	5.5	<50	<0.5	<0.5	<0.5	<0.5	<0.5	---
Trip Blank	07/10/90		<50	---	<0.5	<0.5	<0.5	<0.5	---
	10/09/90		<50	---	<0.5	<0.5	<0.5	<0.5	---
	01/17/91		<50	---	<0.5	<0.5	<0.5	<0.5	---
	04/09/91		<50	---	<0.5	<0.5	<0.5	<0.5	---
	07/10/91		<50	---	<0.5	<0.5	<0.5	<0.5	---
	10/09/91		<50	---	<0.5	<0.5	<0.5	<0.5	---
	01/24/92		<50	---	<0.5	<0.5	<0.5	<0.5	---
	04/23/92		<50	---	<0.5	<0.5	<0.5	<0.5	---
	07/01/92		<50	---	<0.5	<0.5	<0.5	<0.5	---
	10/02/92		<50	---	<0.5	<0.5	<0.5	<0.5	---
	01/05/93		<50	---	<0.5	<0.5	<0.5	<0.5	---
	04/08/93		<50	---	<0.5	<0.5	<0.5	<0.5	---
	07/20/93		<50	---	<0.5	<0.5	<0.5	<0.5	---
	10/15/93		<50	---	<0.5	<0.5	<0.5	<0.5	---
	01/07/94		<50	---	<0.5	<0.5	<0.5	<0.5	---
	04/13/94		<50	---	<0.5	<0.5	<0.5	<0.5	---
DTSC MCLs									

-- Table 2A continues on next page --

Table 2A. Analytic Results for Ground Water - Petroleum Hydrocarbons - Shell Service Station WIC #204-0072-0502, 2160 Otis Drive, Alameda, California (continued)

Abbreviations:

TPH-G = Total petroleum hydrocarbons as gasoline by Modified EPA Method 8015
TPH-D = Total petroleum hydrocarbons as diesel by Modified EPA Method 8015
B = Benzene by EPA Method 8020, or 8240
E = Ethylbenzene by EPA Method 8020, or 8240
T = Toluene by EPA Method 8020, or 8240
X = Xylenes by EPA Method 8020, or 8240
POG = Petroleum oil and grease by American Public Health Association Standard Methods 503, or EPA method 5520BF
DTSC MCLs = Department of Toxic Substances Control maximum contaminant levels
<n = Not detected above detection limit of n ppb
NE = DTSC MCL not established
BH-C = Grab Ground Water Sample

Notes:

a = 0.090 ppm chromium, 0.090 ppm lead and 0.10 ppm Zn detected; no cadmium detected above detection limit of 0.010 ppm by EPA Method 6010. No semi-volatile organic compounds or PCBs detected by EPA Method 625. DTSC MCLs for Cr = 0.05 ppm; Pb = 0.05 ppm; secondary MCL for Zn = 5 ppm.
b = Chromatographic pattern not typical for gasoline; the concentration is due mostly to lighter hydrocarbon compounds.
c = The concentration reported as gasoline is partially due to the presence of discrete peaks not indicative of gasoline.
d = The concentration reported as gasoline is primarily due to the presence of discrete peaks not indicative of gasoline.
e = DTSC recommended action level for drinking water; MCL not established

Table 6. Ground Water Analytic Data - Total Metals - Shell Service Station WIC# 204-0072-0502, 2160 Otis Street, Alameda, California

Sample ID	Sample Location	Date Sampled	Cadmium (mg/L)	Chromium (mg/L)	Lead (mg/L)	Nickel (mg/L)	Zinc (mg/L)
TPW-1	Gasoline Tank Pit	9/4/1997	---	---	0.018	---	---
WO	Waste Oil Tank Pit	9/4/1997	<0.010	0.042	<0.10	0.068	0.15

mg/L = Milligrams per liter
<n = Below detection limit of n mg/L
--- = Not Analyzed

Table 2. Ground Water Analytic Data - Shell Service Station WIC# 204-0072-0502, 2160 Otis Street, Alameda, California

Sample ID	Sample Location	Date Sampled	TPPH (µg/L)	TEPH (µg/L)	TRPH (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	MTBE (8020) (µg/L)	MTBE (8260) (µg/L)
G-1	Down gradient of UST pit	12/17/97	2,900	---	---	240	<25	85	240	890	920
G-2	Down gradient of dispensers	12/17/97	780	---	---	110	3.0	21	5.5	46	57
G-3	Down gradient of waste oil tank	12/17/97	<50	<50 *	5,600	<0.50	<0.50	<0.50	<0.50	<2.5	---
G-5	North corner	12/17/97	<50	---	---	<0.50	<0.50	<0.50	<0.50	<2.5	---

µg/L = Micrograms per liter
TPPH = Total purgable petroleum hydrocarbons (gasoline) by modified EPA Method 8015
TEPH = Total extractable petroleum hydrocarbons (diesel) by modified EPA Method 8015
TRPH = Total recoverable petroleum hydrocarbons (oil and grease) by Standard Method 5520 E&F
MTBE = Methyl tert-butyl ether by EPA Method 8020 and EPA Method 8260
Benzene, toluene, ethylbenzene, and xylenes by EPA Method 8020
UST = Underground storage tank
<n = Below detection limit of n µg/L
* = TEPH analysis not completed within standard holding time
--- = Not analyzed

Table 2. Groundwater Analytical Data - Former Shell Service Station, Incident # 98995140, 2160 Otis Drive, Alameda, California

Sample ID	Depth (ft)	Date Sampled	TPHg	TPHd	TPHmo	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes
			Concentrations reported in milligrams per kilogram (mg/kg or ppm)							
S-1-5.0	5	11/30/2000	<1.0	NA	NA	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
S-2-4.5	4.5	11/30/2000	<1.0	NA	NA	**0.13**	<0.0050	<0.0050	<0.0050	<0.0050
S-3-4.5	4.5	11/30/2000	<1.0	<1.0	<10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
S-4-4.5	4.5	11/30/2000	<1.0	<1.0	<10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
S-5-4.5	4.5	11/30/2000	<1.0	NA	NA	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
S-6-4.5	4.5	11/30/2000	<1.0	NA	NA	**0.020**	<0.0050	<0.0050	<0.0050	<0.0050
S-7-4.5	4.5	11/30/2000	<1.0	<1.0	**76**	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
S-8-4.5	4.5	11/30/2000	<1.0	<1.0	<10	**0.0090**	<0.0050	<0.0050	<0.0050	<0.0050
S-9-4.5	4.5	11/30/2000	<1.0	<1.0	<10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050

Notes and Abbreviations:

TPHg = Total petroleum hydrocarbons as gasoline
TPHd = Total petroleum hydrocarbons as diesel
TPHmo = Total petroleum hydrocarbons as motor oil
All analyses performed by EPA Method 8260B
<n = Below detection limit of n mg/kg
NA = not analyzed

Table 3. Groundwater Analytical Data, Former Shell Service Station, 2160 Otis Drive, Alameda, California

Sample ID	Date Sampled	TPHg µg/L	Benzene µg/L	Toluene µg/L	Ethyl benzene µg/L	Total xylenes µg/L	MTBE µg/L
SB-1-W	09-Dec-03	<50	<0.50	<0.50	<0.50	<1.0	<0.50
SB-2-W	09-Dec-03	**62**	<0.50	<0.50	<0.50	<1.0	<0.50
SB-3-W	09-Dec-03	<50	<0.50	<0.50	<0.50	<1.0	<0.50
SB-4-W	09-Dec-03	<50	<0.50	<0.50	<0.50	<1.0	<0.50
SB-5-W	09-Dec-03	**57**	<0.50	<0.50	<0.50	**1.8**	<0.50

Abbreviations:

TPHg = Total petroleum hydrocarbon as gasoline by EPA Method 8260

Benzene, toluene, ethyl benzene, total xylenes by EPA Method 8260

MTBE = Methyl tertiary butyl ether, analyzed by EPA Method 8260

µg/L = Micrograms per liter

<x = Not detected at detection limit x

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September 25, 2003

Karen Petryna
Shell Oil Products US
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Third Quarter 2003 Groundwater Monitoring at
Former Shell Service Station
2160 Otis Drive
Alameda, CA

Monitoring performed on August 27, 2003

Groundwater Monitoring Report **030827-SS-3**

This report covers the routine monitoring of groundwater wells at this Shell-branded facility. In accordance with standard procedures that conform to Regional Water Quality Control Board requirements, routine field data collection includes depth to water, total well depth, thickness of any separate immiscible layer, water column volume, calculated purge volume (if applicable), elapsed evacuation time (if applicable), total volume of water removed (if applicable), and standard water parameter instrument readings. Sample material is collected, contained, stored, and transported to the laboratory in conformance with EPA standards. Purgewater (if applicable) is, likewise, collected and transported to the Martinez Refining Company.

Basic field information is presented alongside analytical values excerpted from the laboratory report in the cumulative table of **WELL CONCENTRATIONS**. The full analytical report for the most recent samples and the field data sheets are attached to this report.

At a minimum, Blaine Tech Services, Inc. field personnel are certified on completion of a forty hour Hazardous Materials and Emergency Response training course per 29 CFR 1910.120. Field personnel are also enrolled in annual eight hour refresher courses.

WELL CONCENTRATIONS
Former Shell Service Station
2160 Otis Street
Alameda, CA

Well ID	Date	TPPH (ug/L)	TEPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)
S-1	9/4/1987	NA	NA	<5	<5	<5	<5	NA	NA	NA	NA	NA	NA	NA	NA	NA
S-1	9/11/1989	<50	<100	<0.5	<1	<1	<3	NA	NA	NA	NA	NA	NA	5.1	4.29	0.81
S-1	4/11/1990	<50	<50	<0.5	<0.5	<0 5	<0.5	NA	NA	NA	NA	NA	NA	5.1	4	1 1
S-1	7/10/1990	<90	NA	<0.5	<0 5	<0 5	<0 5	NA	NA	NA	NA	NA	NA	5.1	4.25	0.85
S-1	10/9/1990	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	5 1	4.46	0.64
S-1	1/17/1991	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	5.1	4.53	0.57
S-1	4/9/1991	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	5.1	4 2	0.9
S-1	7/10/1991	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	5.1	4.42	0 68
S-1	10/9/1991	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	5 1	4.87	0.23
S-1	1/24/1992	<50	NA	<0.5	<0 5	<0 5	<0.5	NA	NA	NA	NA	NA	NA	5.1	4.9	0.2
S-1	4/23/1992	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	5 1	4.66	0 44
S-1	7/1/1992	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	5.1	4.85	0.25
S-1	10/2/1992	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	5.1	4.8	0 3
S-1	1/5/1993	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	5.1	5.38	-0.28
S-1	4/8/1993	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5.1	3 69	1.41
S-1	7/20/1993	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5.1	4.2	0 9
S-1	10/15/1993	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5.1	4.38	0.72
S-1	1/7/1994	<50	NA	<0.5	<0.5	<0.5	<0 5	NA	NA	NA	NA	NA	NA	5.1	4 19	0.91
S-1 (D)	1/7/1994	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	5.1	4.03	1.07
S-1	7/26/1994	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5.1	4.76	0.34
S-1	11/1/1994	<50	NA	<0.5	<0.5	<0.5	<0 5	NA	NA	NA	NA	NA	NA	5 1	4.84	0.26
S-1	1/13/1995	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5.1	4.07	1.03
S-1	4/20/1995	<50	NA	2.2	0.6	2.2	2.5	NA	NA	NA	NA	NA	NA	5.1	4.14	0.96
S-1	5/23/1995	<50	NA	<0.5	<0.5	<0 5	<0.5	NA	NA	NA	NA	NA	NA	5.1	3.51	1.59
S-1	Well destroyed		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-1	4/11/1990	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	6	5.23	0.77
MW-1	7/10/1990	100	NA	<0.5	<0.5	<0 5	<0.5	NA	NA	NA	NA	NA	NA	6	5 4	0 6
MW-1	10/9/1990	<50	NA	<0.5	<0.5	<0.5	<0 5	NA	NA	NA	NA	NA	NA	6	5.61	0.39
MW-1	1/17/1991	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	6	5.66	0 34
MW-1	4/9/1991	<50	NA	<0 5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	6	4.96	1.04
MW-1	7/10/1991	<50	NA	<0.5	<0 5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	6	5.52	0.48
MW-1	10/9/1991	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	6	5.7	0.3
MW-1	1/24/1992	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	6	5.51	0.49
MW-1	4/23/1992	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	6	5 14	0.86
MW-1	7/1/1992	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	6	4.48	1 52
MW-1	10/2/1992	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	6	5.8	0.2

WELL CONCENTRATIONS
Former Shell Service Station
2160 Otis Street
Alameda, CA

Well ID	Date	TPPH (ug/L)	TEPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)
MW-1	1/5/1993	<50	NA	<0 5	<0 5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	6	5.34	0 66
MW-1 (D)	1/5/1993	<50	NA	<0.5	<0 5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	6	NA	NA
MW-1	4/8/1993	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	6	4.62	1.38
MW-1	7/20/1993	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	6	5 2	0 8
MW-1	10/15/1993	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	6	4 37	1.63
MW-1	1/7/1994	<50	NA	<0 5	<0.5	<0 5	<0.5	NA	NA	NA	NA	NA	NA	6	5.26	0.74
MW-1	4/13/1994	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	6	5.01	0 99
MW-1	7/26/1994	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	6	5.38	0 62
MW-1	8/18/1994	<50	NA	<0.5	<0.5	<0.5	<0 5	NA	NA	NA	NA	NA	NA	6	5.4	0.6
MW-1	10/11/1994	<50	<50	<0.5	<0.5	<0 5	<0.5	NA	NA	NA	NA	NA	NA	6	5.6	0 4
MW-1	1/13/1995	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	6	5.56	0.44
MW-1	4/20/1995	<50	NA	<0.5	<0 5	<0 5	<0.5	NA	NA	NA	NA	NA	NA	6	4 4	1.6
MW-1	Well destroyed		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-2	4/11/1990	200a	220	2.7	<0.5	0.5	2.4	NA	NA	NA	NA	NA	NA	3 29	4.51	-1 22
MW-2	7/10/1990	570a	450	150	<0 5	0 9	3.1	NA	NA	NA	NA	NA	NA	3 29	4.61	-1 32
MW-2	10/9/1990	190a	51	55	<0.5	<0 5	<0.5	NA	NA	NA	NA	NA	NA	3 29	4.74	-1 45
MW-2	1/17/1991	350a	<50	51	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	3 29	4 73	-1 44
MW-2	4/9/1991	NA	<50	21	<5	<5	<5	NA	NA	NA	NA	NA	NA	3 29	4 09	-0 8
MW-2	7/10/1991	50a	<50	8.4	<0.5	<0.5	<0 5	NA	NA	NA	NA	NA	NA	3 29	4 66	-1 37
MW-2	10/9/1991	150	NA	22	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	3 29	4 81	-1 52
MW-2	1/24/1992	<50	NA	4.8	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	3 29	4.66	-1 37
MW-2	4/23/1992	<50	NA	2.3	1.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	3 29	4 51	-1 22
MW-2	7/1/1992	130a	NA	19	<0 5	<0 5	<0.5	NA	NA	NA	NA	NA	NA	3.29	4 57	-1.28
MW-2	10/2/1992	120a	NA	7.8	<0.5	<0.5	<0.8	NA	NA	NA	NA	NA	NA	3 29	4 8	-1 51
MW-2	1/5/1993	200a	NA	9	<0 5	0 6	1.8	NA	NA	NA	NA	NA	NA	3 29	4.39	-1 1
MW-2	4/8/1993	170a	NA	9 6	<0.5	<0.5	1.6	NA	NA	NA	NA	NA	NA	3 29	4 15	-0.86
MW-2	7/20/1993	80a	NA	16	1.3	1.4	6 1	NA	NA	NA	NA	NA	NA	3 29	4 4	-1 11
MW-2	10/15/1993	400a	NA	37	0 6	1 1	4.7	NA	NA	NA	NA	NA	NA	3 29	5 41	-2 12
MW-2	1/7/1994	86a	NA	12	<0 5	<0.5	1.1	NA	NA	NA	NA	NA	NA	3.29	4.34	-1 05
MW-2	4/13/1994	<50	NA	14	<0 5	<0 5	<0 5	NA	NA	NA	NA	NA	NA	3 29	4 29	-1
MW-2	7/26/1994	290	NA	51	<0 5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	3 29	4 56	-1 27
MW-2	11/11/1994	<50	NA	3.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	3 29	4 68	-1 39
MW-2	1/13/1995	<50	NA	<0.5	<0 5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	3 29	3.48	-0 19
MW-2	4/20/1995	<50	NA	<0.5	<0 5	1	3.6	NA	NA	NA	NA	NA	NA	3 29	3 78	-0.49
MW-2 (D)	4/20/1995	<50	NA	9 9	<0 5	<0 5	<0.5	NA	NA	NA	NA	NA	NA	3 29	NA	NA
MW-2	5/23/1995	<50	NA	5.8	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	3 29	3 87	-0.58

WELL CONCENTRATIONS
Former Shell Service Station
2160 Otis Street
Alameda, CA

Well ID	Date	TPPH (ug/L)	TEPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)
MW-2	Well destroyed		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-3	3/20/2001	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5.23	NA
MW-3	3/22/2001	1,000	1,100	80	16	7.9	72	NA	72	NA	NA	NA	NA	NA	5.21	NA
MW-3	5/30/2001	3,100	<1,500	170	50	150	340	NA	100	NA	NA	NA	NA	NA	5.57	NA
MW-3	9/17/2001	130	130	0 79	<0.50	<0.50	<0 50	NA	180	NA	NA	NA	NA	NA	5 93	NA
MW-3	12/20/2001	1,800	<900	250	4.8	4.0	51	NA	13	NA	NA	NA	NA	NA	5 06	NA
MW-3	8/27/2003	2,900	NA	96	26	14	81	NA	7 2	NA	NA	NA	NA	9 22	5 71	3 51
MW-3	**12/7/2004**	**120 b**	**NA**	**<0.50**	**<0.50**	**<0.50**	**<1.0**	**NA**	**88**	**<2.0**	**<2.0**	**<2.0**	**13**	**9.22**	**6.05**	**3.17**
BH-C	12/17/1992	<50	<0.5	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA
BH-D	12/17/1992	<50	<0 5	<0.5	<0.5	<0.5	<0 5	NA	NA	NA	NA	NA	NA	NA	NA	NA
BH-E	12/17/1992	<50	<0.5	<0.5	<0.5	<0.5	<0 5	NA	NA	NA	NA	NA	NA	NA	NA	NA
TB	7/10/1990	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA
TB	10/9/1990	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA
TB	1/17/1991	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA
TB	4/9/1991	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA
TB	7/10/1991	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA
TB	10/9/1991	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA
TB	1/24/1992	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA
TB	4/23/1992	<50	NA	<0.5	<0.5	<0.5	<0 5	NA	NA	NA	NA	NA	NA	NA	NA	NA
TB	7/1/1992	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA
TB	10/2/1992	<50	NA	<0.5	<0 5	<0.5	<0 5	NA	NA	NA	NA	NA	NA	NA	NA	NA
TB	1/5/1993	<50	NA	<0.5	<0.5	<0 5	<0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA
TB	4/8/1993	<50	NA	<0.5	<0 5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA
TB	7/20/1993	<50	NA	<0.5	<0.5	<0 5	<0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA
TB	10/15/1993	<50	NA	<0 5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA
TB	1/7/1994	<50	NA	<0 5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA
TB	4/13/1994	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA
TB	10/11/1994	<50	NA	<0.5	<0.5	<0.5	<0 5	NA	NA	NA	NA	NA	NA	NA	NA	NA
TB	11/1/1994	<50	NA	<0.5	<0.5	<0.5	<0 5	NA	NA	NA	NA	NA	NA	NA	NA	NA
TB	1/13/1995	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA
TB	4/20/1995	<50	NA	<0.5	<0.5	<0 5	<0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA
TB	5/23/1995	<50	NA	<0 5	<0 5	<0 5	<0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA

WELL CONCENTRATIONS
Former Shell Service Station
2160 Otis Street
Alameda, CA

Well ID	Date	TPPH (ug/L)	TEPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)

Abbreviations:
TPPH = Total petroleum hydrocarbons as gasoline by EPA Method 8260B, prior to March 22, 2001, analyzed by EPA Method 8015.
TEPH = Total extractable hydrocarbons as diesel by modified EPA Method 8015.
BTEX = Benzene, toluene, ethylbenzene, xylenes by EPA Method 8260B; prior to March 22, 2001, analyzed by EPA Method 8020
MTBE = Methyl-tertiary-butyl ether
DIPE = Di-isopropyl ether, analyzed by EPA Method 8260B
ETBE = Ethyl tertiary butyl ether, analyzed by EPA Method 8260B
TAME = Tertiary amyl methyl ether, analyzed by EPA Method 8260B
TBA = Tertiary butyl alcohol, analyzed by EPA Method 8260B
TOC = Top of Casing Elevation
GW = Groundwater
BH-C = Grab Ground Water Sample
ug/L = parts per billion
msl = Mean sea level
ft = Feet
<n = Below detection limit

Notes:
a = Chromatogram pattern indicated an unidentified hydrocarbon.
b = Quantity of unknown hydrocarbon in sample based on gasoline.
Well MW-3 surveyed May 9, 2002, by Virgil Chavez Land Surveying of Vallejo, California.

WELL CONCENTRATIONS
Former Shell Service Station
2160 Otis Street
Alameda, CA

Well ID	Date	TPPH (ug/L)	TEPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)
MW-1	1/5/1993	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	6	5.34	0.66
MW-1 (D)	1/5/1993	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	6	NA	NA
MW-1	4/8/1993	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	6	4.62	1.38
MW-1	7/20/1993	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	6	5.2	0.8
MW-1	10/15/1993	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	6	4.37	1.63
MW-1	1/7/1994	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	6	5.26	0.74
MW-1	4/13/1994	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	6	5.01	0.99
MW-1	7/26/1994	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	6	5.38	0.62
MW-1	8/18/1994	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	6	5.4	0.6
MW-1	10/11/1994	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	6	5.6	0.4
MW-1	1/13/1995	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	6	5.56	0.44
MW-1	4/20/1995	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	6	4.4	1.6
MW-1	Well destroyed		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-2	4/11/1990	200a	220	2.7	<0.5	0.5	2.4	NA	NA	NA	NA	NA	NA	3.29	4.51	-1.22
MW-2	7/10/1990	570a	450	150	<0.5	0.9	3.1	NA	NA	NA	NA	NA	NA	3.29	4.61	-1.32
MW-2	10/9/1990	190a	51	55	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	3.29	4.74	-1.45
MW-2	1/17/1991	350a	<50	51	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	3.29	4.73	-1.44
MW-2	4/9/1991	NA	<50	21	<5	<5	<5	NA	NA	NA	NA	NA	NA	3.29	4.09	-0.8
MW-2	7/10/1991	50a	<50	8.4	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	3.29	4.66	-1.37
MW-2	10/9/1991	150	NA	22	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	3.29	4.81	-1.52
MW-2	1/24/1992	<50	NA	4.8	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	3.29	4.66	-1.37
MW-2	4/23/1992	<50	NA	2.3	1.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	3.29	4.51	-1.22
MW-2	7/1/1992	130a	NA	19	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	3.29	4.57	-1.28
MW-2	10/2/1992	120a	NA	7.8	<0.5	<0.5	<0.8	NA	NA	NA	NA	NA	NA	3 29	4.8	-1.51
MW-2	1/5/1993	200a	NA	9	<0.5	0.6	1.8	NA	NA	NA	NA	NA	NA	3.29	4.39	-1.1
MW-2	4/8/1993	170a	NA	9.6	<0.5	<0.5	1.6	NA	NA	NA	NA	NA	NA	3.29	4.15	-0.86
MW-2	7/20/1993	80a	NA	16	1.3	1.4	6.1	NA	NA	NA	NA	NA	NA	3.29	4.4	-1.11
MW-2	10/15/1993	400a	NA	37	0.6	1.1	4.7	NA	NA	NA	NA	NA	NA	3.29	5.41	-2.12
MW-2	1/7/1994	86a	NA	12	<0.5	<0.5	1.1	NA	NA	NA	NA	NA	NA	3.29	4.34	-1.05
MW-2	4/13/1994	<50	NA	14	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	3.29	4.29	-1
MW-2	7/26/1994	290	NA	51	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	3.29	4.56	-1.27
MW-2	11/11/1994	<50	NA	3.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	3.29	4.68	-1.39
MW-2	1/13/1995	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	3.29	3.48	-0.19
MW-2	4/20/1995	<50	NA	<0.5	<0.5	1	3.6	NA	NA	NA	NA	NA	NA	3.29	3.78	-0.49
MW-2 (D)	4/20/1995	<50	NA	9.9	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	3.29	NA	NA
MW-2	5/23/1995	<50	NA	5.8	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	3.29	3.87	-0.58

WELL CONCENTRATIONS
Former Shell Service Station
2160 Otis Street
Alameda, CA

Well ID	Date	TPPH (ug/L)	TEPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)
S-1	9/4/1987	NA	NA	<5	<5	<5	<5	NA	NA	NA	NA	NA	NA	NA	NA	NA
S-1	9/11/1989	<50	<100	<0.5	<1	<1	<3	NA	NA	NA	NA	NA	NA	5.1	4.29	0.81
S-1	4/11/1990	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	5.1	4	1.1
S-1	7/10/1990	<90	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	5.1	4.25	0.85
S-1	10/9/1990	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	5.1	4.46	0.64
S-1	1/17/1991	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	5.1	4.53	0.57
S-1	4/9/1991	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	5.1	4.2	0.9
S-1	7/10/1991	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	5.1	4.42	0.68
S-1	10/9/1991	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	5.1	4.87	0.23
S-1	1/24/1992	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	5.1	4.9	0.2
S-1	4/23/1992	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	5.1	4.66	0.44
S-1	7/1/1992	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	5.1	4.85	0.25
S-1	10/2/1992	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	5.1	4.8	0.3
S-1	1/5/1993	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	5.1	5.38	-0.28
S-1	4/8/1993	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5.1	3.69	1.41
S-1	7/20/1993	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5.1	4.2	0.9
S-1	10/15/1993	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5.1	4.38	0.72
S-1	1/7/1994	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	5.1	4.19	0.91
S-1 (D)	1/7/1994	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	5.1	4.03	1.07
S-1	7/26/1994	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5.1	4.76	0.34
S-1	11/1/1994	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	5.1	4.84	0.26
S-1	1/13/1995	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5.1	4.07	1.03
S-1	4/20/1995	<50	NA	2.2	0.6	2.2	2.5	NA	NA	NA	NA	NA	NA	5.1	4.14	0.96
S-1	5/23/1995	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	5.1	3.51	1.59
S-1	Well destroyed		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-1	4/11/1990	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	6	5.23	0.77
MW-1	7/10/1990	100	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	6	5.4	0.6
MW-1	10/9/1990	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	6	5.61	0.39
MW-1	1/17/1991	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	6	5.66	0.34
MW-1	4/9/1991	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	6	4.96	1.04
MW-1	7/10/1991	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	6	5.52	0.48
MW-1	10/9/1991	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	6	5.7	0.3
MW-1	1/24/1992	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	6	5.51	0.49
MW-1	4/23/1992	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	6	5.14	0.86
MW-1	7/1/1992	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	6	4.48	1.52
MW-1	10/2/1992	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	6	5.8	0.2

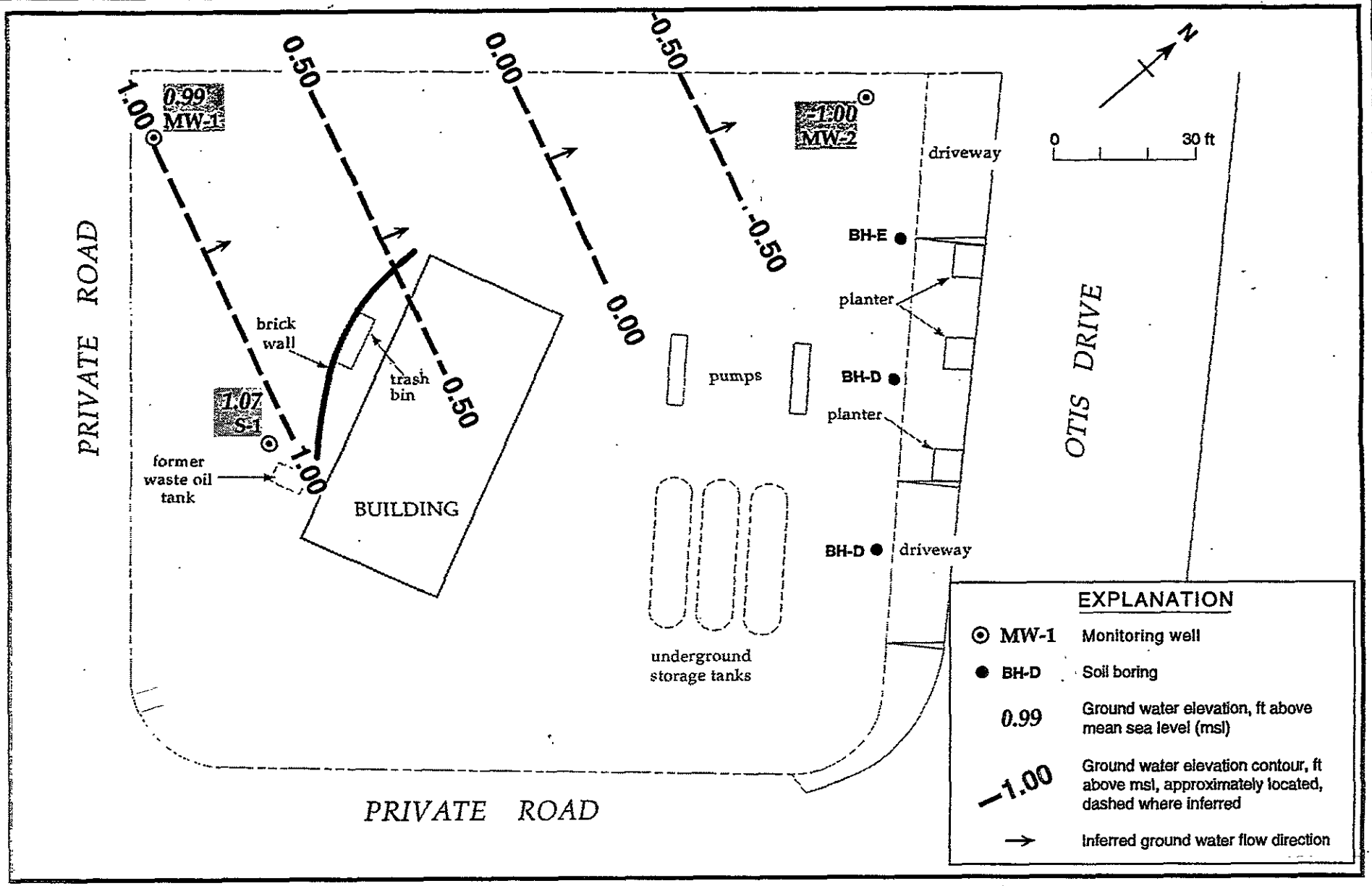

Figure 2. Monitoring Well Locations, Soil Boring Locations and Ground Water Elevation Contours - April 13, 1994 - Shell Service Station WIC #204-0072-2160, 2160 Otis Drive, Alameda, California

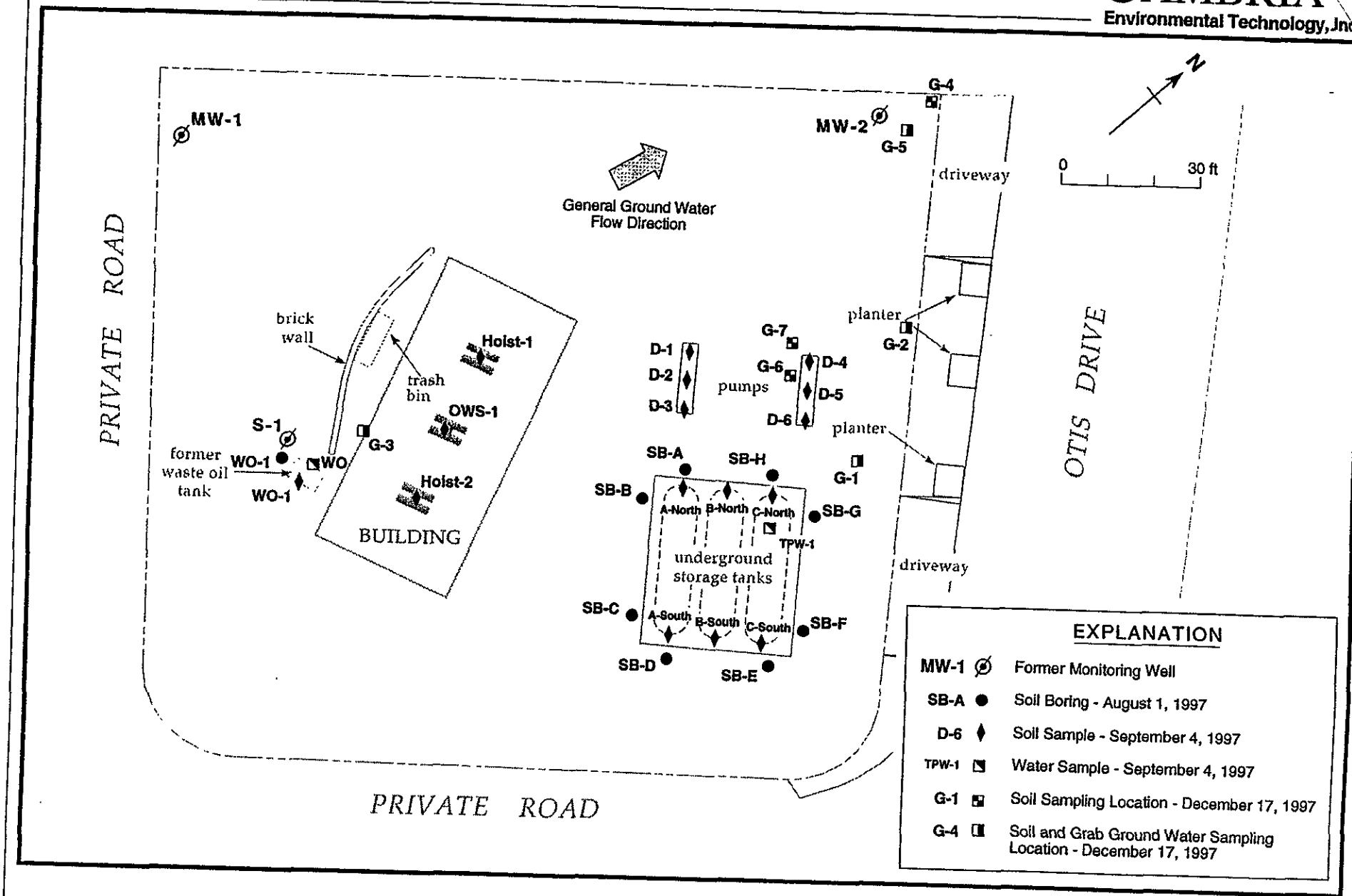

Figure 1. Sample Locations - Shell Service Station WIC #204-0072-0502, 2160 Otis Drive, Alameda, California

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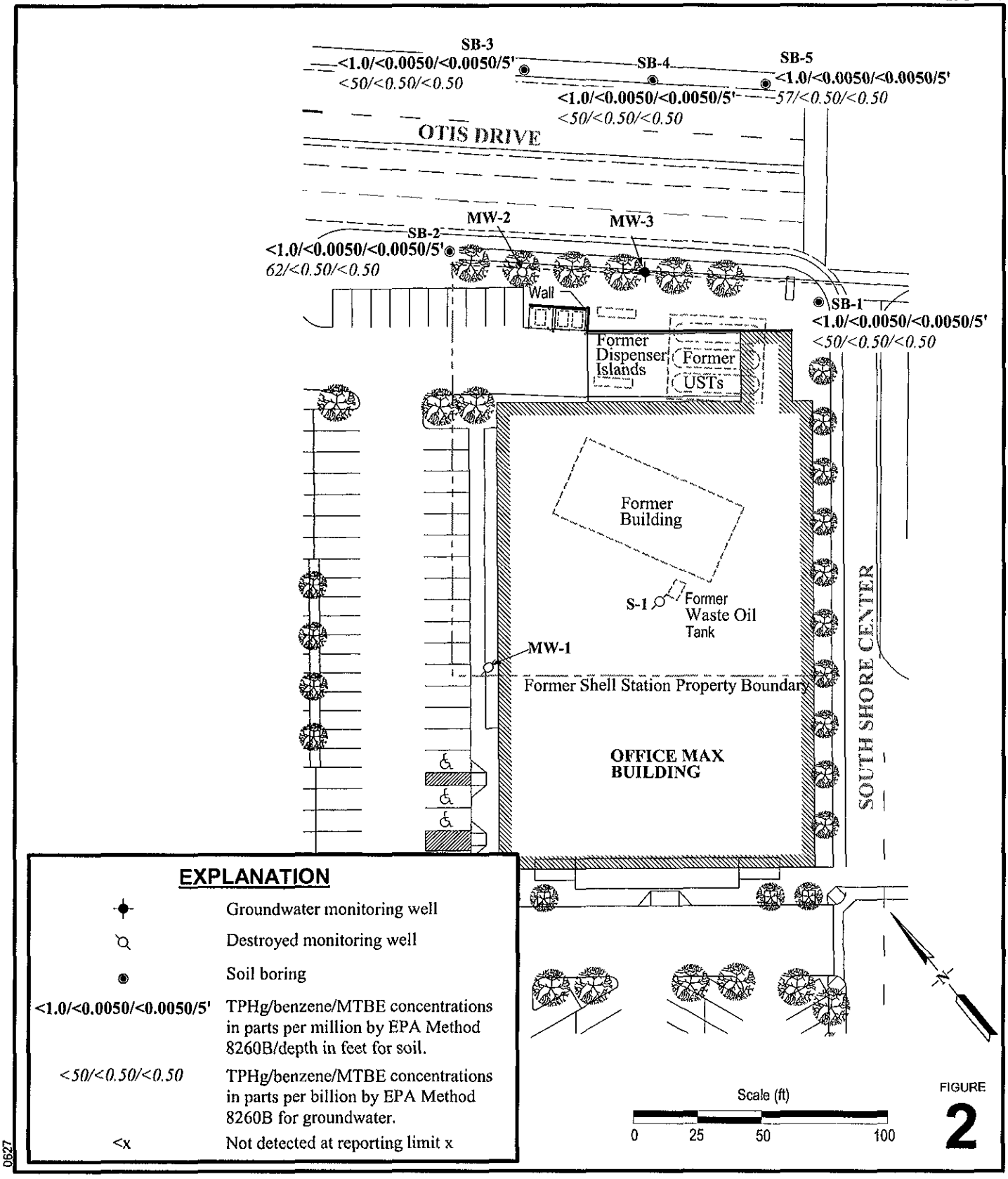
01/22/98

29-Dec-03



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Former Shell Service Station
2160 Otis Drive
Alameda, California

CAMBRIA

Soil/Groundwater Chemical Concentration Map

December 9, 2003

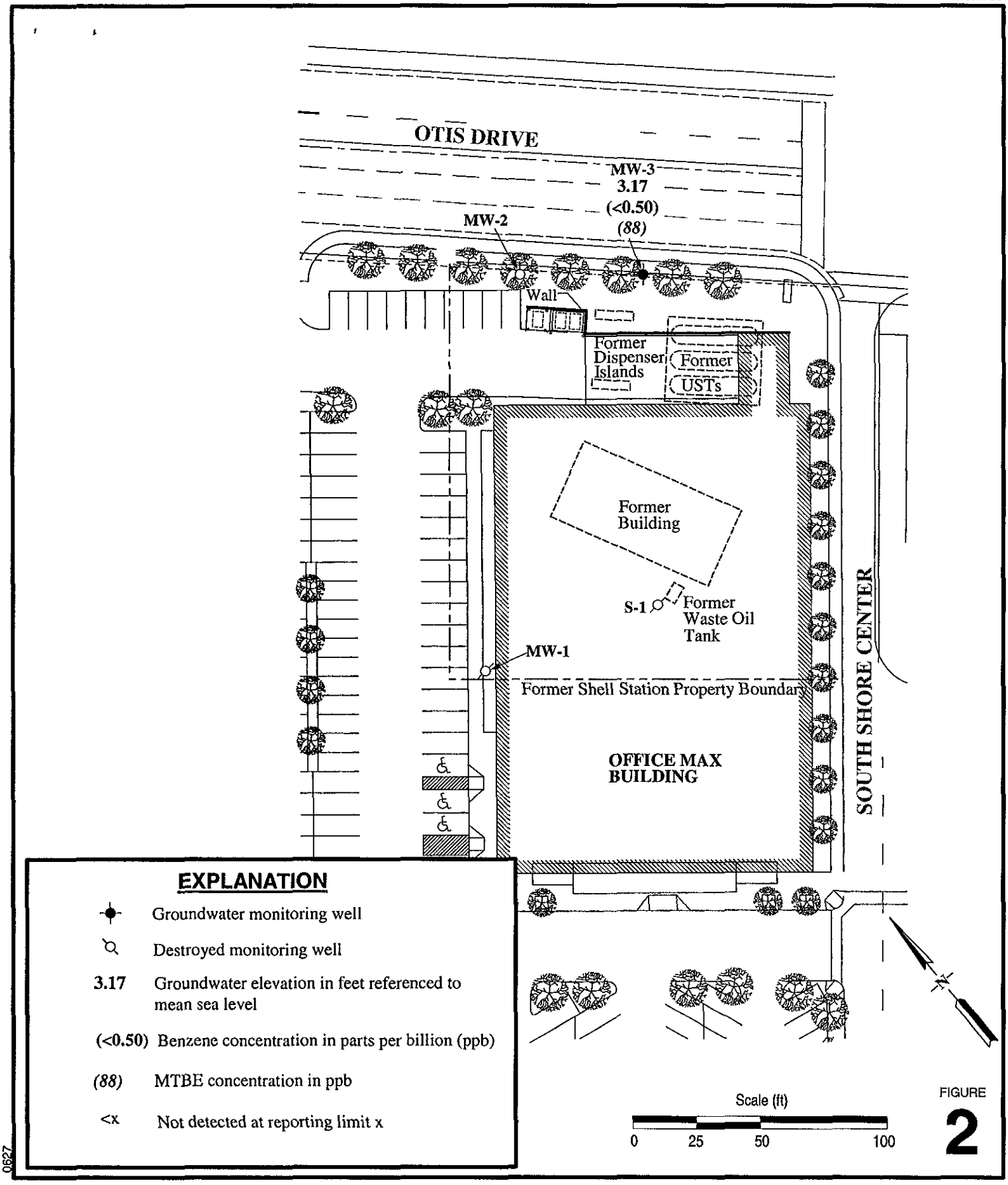

FIGURE
2

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Former Shell Service Station
2160 Otis Drive
Alameda, California

CAMBRIA

Groundwater Elevation/Chemical Concentration Map

December 7, 2004

APPENDIX A

Blaine Tech Services, Inc.
Groundwater Monitoring Report

BLAINE
TECH SERVICES INC.

GROUNDWATER SAMPLING SPECIALISTS
SINCE 1985

December 29, 2004

Karen Petryna
Shell Oil Products US
P.O. Box 7869
Burbank, CA 91510-7869

Fourth Quarter 2004 Groundwater Monitoring at
Former Shell Service Station
2160 Otis Drive
Alameda, CA

Monitoring performed on December 7, 2003

Groundwater Monitoring Report **041207-SS-4**

This report covers the routine monitoring of groundwater wells at this Shell-branded facility. In accordance with standard procedures that conform to Regional Water Quality Control Board requirements, routine field data collection includes depth to water, total well depth, thickness of any separate immiscible layer, water column volume, calculated purge volume (if applicable), elapsed evacuation time (if applicable), total volume of water removed (if applicable), and standard water parameter instrument readings. Sample material is collected, contained, stored, and transported to the laboratory in conformance with EPA standards. Purgewater (if applicable) is, likewise, collected and transported to the Martinez Refining Company.

Basic field information is presented alongside analytical values excerpted from the laboratory report in the cumulative table of **WELL CONCENTRATIONS**. The full analytical report for the most recent samples and the field data sheets are attached to this report.

At a minimum, Blaine Tech Services, Inc. field personnel are certified on completion of a forty hour Hazardous Materials and Emergency Response training course per 29 CFR 1910.120. Field personnel are also enrolled in annual eight hour refresher courses.

Blaine Tech Services, Inc. conducts sampling and documentation assignments of this type as an independent third party. Our activities at this site consisted of objective data and sample collection only. No interpretation of analytical results, defining of hydrological conditions or formulation of recommendations was performed.

Please call if you have any questions.

Yours truly,

Leon Gearhart
Project Coordinator

LG/ks

attachments: Cumulative Table of WELL CONCENTRATIONS
Certified Analytical Report
Field Data Sheets

cc: Ana Friel
Cambria Environmental Technology, Inc.
P.O. Box 259
Sonoma, CA 95476-0259

ATTACHMENT E

Analytic Reports for Soil Samples

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
1144 65th St. Suite C
Oakland, CA 94608
Attention: Paul Waite

Project: Shell 204-0072-0502, Alameda

Enclosed are the results from samples received at Sequoia Analytical on August 4, 1997.
The requested analyses are listed below:

SAMPLE #	SAMPLE DESCRIPTION		DATE COLLECTED	TEST METHOD
9708069 -01	SOLID,	SB-A-15.5	08/01/97	TPHGBS Purgeable TPH/BTEX
9708069 -02	SOLID,	SB-B-15.5	08/01/97	TPHGBS Purgeable TPH/BTEX
9708069 -03	SOLID,	SB-C-15.5	08/01/97	TPHGBS Purgeable TPH/BTEX
9708069 -04	SOLID,	SB-D-15.5	08/01/97	TPHGBS Purgeable TPH/BTEX
9708069 -05	SOLID,	SB-(A,B,C,D)-15.5 Comp	08/01/97	ITTLCS Title 22: Metals, T
9708069 -06	SOLID,	SB-E-15.5	08/01/97	TPHGBS Purgeable TPH/BTEX
9708069 -07	SOLID,	SB-F-15.5	08/01/97	TPHGBS Purgeable TPH/BTEX
9708069 -08	SOLID,	SB-G-15.5	08/01/97	TPHGBS Purgeable TPH/BTEX
9708069 -09	SOLID,	SB-H-15.5	08/01/97	TPHGBS Purgeable TPH/BTEX
9708069 -10	SOLID,	SB-(E,F,G,H)-15.5 Comp	08/01/97	ITTLCS Title 22: Metals, T
9708069 -11	SOLID,	SB-A-7.5	08/01/97	TPHGBS Purgeable TPH/BTEX
9708069 -12	SOLID,	SB-A-5.0	08/01/97	TPHGBS Purgeable TPH/BTEX
9708069 -13	SOLID,	SB-A-10.0	08/01/97	TPHGBS Purgeable TPH/BTEX
9708069 -14	SOLID,	SB-A-12.5	08/01/97	TPHGBS Purgeable TPH/BTEX
9708069 -15	SOLID,	SB-A-(7.5,5,10,12.5) Comp	08/01/97	ITTLCS Title 22: Metals, T
9708069 -16	SOLID,	SB-B-10.0	08/01/97	TPHGBS Purgeable TPH/BTEX
9708069 -17	SOLID,	SB-B-4.0	08/01/97	TPHGBS Purgeable TPH/BTEX
9708069 -18	SOLID,	SB-B-7.5	08/01/97	TPHGBS Purgeable TPH/BTEX
9708069 -19	SOLID,	SB-B-12.0	08/01/97	TPHGBS Purgeable TPH/BTEX
9708069 -20	SOLID,	SB-B-(10,4,7.5,12) Comp	08/01/97	ITTLCS Title 22: Metals, T
9708069 -21	SOLID,	SB-C-10.0	08/01/97	TPHGBS Purgeable TPH/BTEX

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Sequoia Analytical

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SAMPLE #	SAMPLE DESCRIPTION	DATE COLLECTED	TEST METHOD
9708069 -22	SOLID, SB-C-7.5	08/01/97	TPHGBS Purgeable TPH/BTEX
9708069 -23	SOLID, SB-C-6.0	08/01/97	TPHGBS Purgeable TPH/BTEX
9708069 -24	SOLID, SB-C-14.0	08/01/97	TPHGBS Purgeable TPH/BTEX
9708069 -25	SOLID, SB-C-(10,7.5,6,14) Comp	08/01/97	ITTLCS Title 22: Metals, T
9708069 -26	SOLID, SB-D-9.5	08/01/97	TPHGBS Purgeable TPH/BTEX
9708069 -27	SOLID, SB-D-7.5	08/01/97	TPHGBS Purgeable TPH/BTEX
9708069 -28	SOLID, SB-D-5.5	08/01/97	TPHGBS Purgeable TPH/BTEX
9708069 -29	SOLID, SB-D-11.5	08/01/97	TPHGBS Purgeable TPH/BTEX
9708069 -30	SOLID, SB-D-(9.5,7.5,5.5,11.5)Cmp	08/01/97	ITTLCS Title 22: Metals, T
9708069 -31	SOLID, SB-E-12.5	08/01/97	TPHGBS Purgeable TPH/BTEX
9708069 -32	SOLID, SB-E-6.0	08/01/97	TPHGBS Purgeable TPH/BTEX
9708069 -33	SOLID, SB-E-7.5	08/01/97	TPHGBS Purgeable TPH/BTEX
9708069 -34	SOLID, SB-E-10.5	08/01/97	TPHGBS Purgeable TPH/BTEX
9708069 -35	SOLID, SB-E-(12.5,6,7.5,10.5)Comp	08/01/97	ITTLCS Title 22: Metals, T
9708069 -36	SOLID, SB-F-7.5	08/01/97	TPHGBS 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

Kevin Follett
Project Manager

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Cambria
1144 65th St. Suite C
Oakland, CA 94608
Attention: Paul Waite

Project: Shell 204-0072-0502, Alameda

Enclosed are the results from samples received at Sequoia Analytical on August 4, 1997. The requested analyses are listed below:

SAMPLE #	SAMPLE DESCRIPTION	DATE COLLECTED	TEST METHOD
9708071 -37	SOLID, SB-F-4.0	08/01/97	TPHGBS Purgeable TPH/BTEX
9708071 -38	SOLID, SB-F-10.0	08/01/97	TPHGBS Purgeable TPH/BTEX
9708071 -39	SOLID, SB-F-12.0	08/01/97	TPHGBS Purgeable TPH/BTEX
9708071 -40	SOLID, SB-F-(7.5,4,10,12) Comp	08/01/97	ITTLCS Title 22: Metals, T
9708071 -41	SOLID, SB-G-4.0	08/01/97	TPHGBS Purgeable TPH/BTEX
9708071 -42	SOLID, SB-G-7.5	08/01/97	TPHGBS Purgeable TPH/BTEX
9708071 -43	SOLID, SB-G-10.0	08/01/97	TPHGBS Purgeable TPH/BTEX
9708071 -44	SOLID, SB-G-12.0	08/01/97	TPHGBS Purgeable TPH/BTEX
9708071 -45	SOLID, SB-G-(4,7.5,10,12) Comp	08/01/97	ITTLCS Title 22: Metals, T
9708071 -46	SOLID, SB-H-4.0	08/01/97	TPHGBS Purgeable TPH/BTEX
9708071 -47	SOLID, SB-H-7.5	08/01/97	TPHGBS Purgeable TPH/BTEX
9708071 -48	SOLID, SB-H-10.0	08/01/97	TPHGBS Purgeable TPH/BTEX
9708071 -49	SOLID, SB-H-12.0	08/01/97	TPHGBS Purgeable TPH/BTEX
9708071 -50	SOLID, SB-H-(4,7.5,10,12) Comp	08/01/97	ITTLCS Title 22: Metals, T

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,

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Kevin Follett
Project Manager

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819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Cambria	Client Proj. ID: Shell 204-0072-0502, Alameda	Sampled: 08/01/97
1144 65th St. Suite C	Sample Descript: SB-A-15.5	Received: 08/04/97
Oakland, CA 94608	Matrix: SOLID	Extracted: 08/05/97
	Analysis Method: 8015Mod/8020	Analyzed: 08/06/97
Attention: Paul Waite	Lab Number: 9708069-01	Reported: 08/07/97

QC Batch Number: GC080597BTEXEXA
Instrument ID: GCHP01

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	1.0	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	94
4-Bromofluorobenzene	60	140	81

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

SEQUOIA ANALYTICAL - ELAP #1210

Kevin Follett
Project Manager

Sequoia Analytical

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Cambria	Client Proj. ID: Shell 204-0072-0502, Alameda	Sampled: 08/01/97
1144 65th St. Suite C	Sample Descript: SB-B-15.5	Received: 08/04/97
Oakland, CA 94608	Matrix: SOLID	Extracted: 08/05/97
	Analysis Method: 8015Mod/8020	Analyzed: 08/05/97
Attention: Paul Waite	Lab Number: 9708069-02	Reported: 08/07/97

QC Batch Number: GC080597BTEXEXA
Instrument ID: GCHP18

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	1.0	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	87
4-Bromofluorobenzene	60	140	92

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

SEQUOIA ANALYTICAL - ELAP #1210

Kevin Follett
Project Manager

Sequoia Analytical

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Cambria	Client Proj. ID: Shell 204-0072-0502, Alameda	Sampled: 08/01/97
1144 65th St. Suite C	Sample Descript: SB-C-15.5	Received: 08/04/97
Oakland, CA 94608	Matrix: SOLID	Extracted: 08/05/97
	Analysis Method: 8015Mod/8020	Analyzed: 08/05/97
Attention: Paul Waite	Lab Number: 9708069-03	Reported: 08/07/97

QC Batch Number: GC080597BTEXEXA
Instrument ID: GCHP18

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	1.0	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	96
4-Bromofluorobenzene	60	140	89

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

SEQUOIA ANALYTICAL - ELAP #1210

Kevin Follett
Project Manager

Sequoia Analytical

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Cambria	Client Proj. ID: Shell 204-0072-0502, Alameda	Sampled: 08/01/97
1144 65th St. Suite C	Sample Descript: SB-D-15.5	Received: 08/04/97
Oakland, CA 94608	Matrix: SOLID	Extracted: 08/05/97
	Analysis Method: 8015Mod/8020	Analyzed: 08/05/97
Attention: Paul Waite	Lab Number: 9708069-04	Reported: 08/07/97

QC Batch Number: GC080597BTEXEXA
Instrument ID: GCHP22

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	1.0	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	101
4-Bromofluorobenzene	60	140	89

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

SEQUOIA ANALYTICAL - ELAP #1210

Kevin Follett
Project Manager

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Cambria	Client Proj. ID: Shell 204-0072-0502, Alameda	Sampled: 08/01/97
1144 65th St. Suite C	Sample Descript: SB-(A,B,C,D)-15.5 Comp	Received: 08/04/97
Oakland, CA 94608	Matrix: SOLID	Extracted: 08/05/97
	Analysis Method: Title 22	Analyzed: 08/05/97
Attention: Paul Waite	Lab Number: 9708069-05	Reported: 08/07/97

Inorganic Persistent and Bioaccumulative Toxic Substances : TTLC

Analyte	Max. Limit mg/Kg	Detection Limit mg/Kg	Sample Results mg/Kg
Antimony, Sb	500	5.0	N.D.
Arsenic, As	500	5.0	N.D.
Barium, Ba	**10000**	**5.0**	**35**
Beryllium, Be	75	0.50	N.D.
Cadmium, Cd	100	0.50	N.D.
Chromium, Cr	**2500**	**0.50**	**27**
Cobalt, Co	**8000**	**2.5**	**4.7**
Copper, Cu	**2500**	**0.50**	**6.3**
Lead, Pb	1000	5.0	N.D.
Mercury, Hg	20	0.020	N.D.
Molybdenum, Mo	3500	2.5	N.D.
Nickel, Ni	**2000**	**2.5**	**25**
Selenium, Se	100	5.0	N.D.
Silver, Ag	500	0.50	N.D.
Thallium, Tl	700	5.0	N.D.
Vanadium, V	**2400**	**2.5**	**22**
Zinc, Zn	**5000**	**0.50**	**20**

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

SEQUOIA ANALYTICAL - ELAP #1210

Kevin Follett
Project Manager

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Cambria	Client Proj. ID: Shell 204-0072-0502, Alameda	Sampled: 08/01/97
1144 65th St. Suite C	Sample Descript: SB-E-15.5	Received: 08/04/97
Oakland, CA 94608	Matrix: SOLID	Extracted: 08/05/97
	Analysis Method: 8015Mod/8020	Analyzed: 08/05/97
Attention: Paul Waite	Lab Number: 9708069-06	Reported: 08/07/97

QC Batch Number: GC080597BTEXEXA
Instrument ID: GCHP22

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	1.0	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	101
4-Bromofluorobenzene	60	140	84

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

SEQUOIA ANALYTICAL - ELAP #1210

Kevin Follett
Project Manager

Sequoia Analytical

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Cambria	Client Proj. ID: Shell 204-0072-0502, Alameda	Sampled: 08/01/97
1144 65th St. Suite C	Sample Descript: SB-F-15.5	Received: 08/04/97
Oakland, CA 94608	Matrix: SOLID	Extracted: 08/05/97
	Analysis Method: 8015Mod/8020	Analyzed: 08/06/97
Attention: Paul Waite	Lab Number: 9708069-07	Reported: 08/07/97

QC Batch Number: GC080597BTEXEXA
Instrument ID: GCHP01

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	1.0	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	93
4-Bromofluorobenzene	60	140	83

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

SEQUOIA ANALYTICAL - ELAP #1210

Kevin Follett
Project Manager

Sequoia Analytical

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819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Cambria	Client Proj. ID: Shell 204-0072-0502, Alameda	Sampled: 08/01/97
1144 65th St. Suite C	Sample Descript: SB-G-15.5	Received: 08/04/97
Oakland, CA 94608	Matrix: SOLID	Extracted: 08/05/97
	Analysis Method: 8015Mod/8020	Analyzed: 08/05/97
Attention: Paul Waite	Lab Number: 9708069-08	Reported: 08/07/97

QC Batch Number: GC080597BTEXEXA
Instrument ID: GCHP22

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	1.0	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	89
4-Bromofluorobenzene	60	140	85

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

SEQUOIA ANALYTICAL - ELAP #1210

Kevin Follett
Project Manager

Sequoia Analytical

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819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Cambria	Client Proj. ID: Shell 204-0072-0502, Alameda	Sampled: 08/01/97
1144 65th St. Suite C	Sample Descript: SB-H-15.5	Received: 08/04/97
Oakland, CA 94608	Matrix: SOLID	Extracted: 08/05/97
	Analysis Method: 8015Mod/8020	Analyzed: 08/05/97
Attention: Paul Waite	Lab Number: 9708069-09	Reported: 08/07/97

QC Batch Number: GC080597BTEXEXA
Instrument ID: GCHP22

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	1.0	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	100
4-Bromofluorobenzene	60	140	94

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

SEQUOIA ANALYTICAL - ELAP #1210

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Cambria	Client Proj. ID: Shell 204-0072-0502, Alameda	Sampled: 08/01/97
1144 65th St. Suite C	Sample Descript: SB-(E,F,G,H)-15.5 Comp	Received: 08/04/97
Oakland, CA 94608	Matrix: SOLID	Extracted: 08/05/97
	Analysis Method: Title 22	Analyzed: 08/05/97
Attention: Paul Waite	Lab Number: 9708069-10	Reported: 08/07/97

Inorganic Persistent and Bioaccumulative Toxic Substances : TTLC

Analyte	Max. Limit mg/Kg	Detection Limit mg/Kg	Sample Results mg/Kg
Antimony, Sb	500	5.0	N.D.
Arsenic, As	500	5.0	N.D.
Barium, Ba	**10000**	**5.0**	**34**
Beryllium, Be	75	0.50	N.D.
Cadmium, Cd	100	0.50	N.D.
Chromium, Cr	**2500**	**0.50**	**25**
Cobalt, Co	**8000**	**2.5**	**4.5**
Copper, Cu	**2500**	**0.50**	**6.0**
Lead, Pb	1000	5.0	N.D.
Mercury, Hg	20	0.020	N.D.
Molybdenum, Mo	3500	2.5	N.D.
Nickel, Ni	**2000**	**2.5**	**25**
Selenium, Se	100	5.0	N.D.
Silver, Ag	500	0.50	N.D.
Thallium, Tl	700	5.0	N.D.
Vanadium, V	**2400**	**2.5**	**20**
Zinc, Zn	**5000**	**0.50**	**22**

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

SEQUOIA ANALYTICAL - ELAP #1210

Kevin Follett
Project Manager

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819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Cambria	Client Proj. ID: Shell 204-0072-0502, Alameda	Sampled: 08/01/97
1144 65th St. Suite C	Sample Descript: SB-A-7.5	Received: 08/04/97
Oakland, CA 94608	Matrix: SOLID	Extracted: 08/05/97
	Analysis Method: 8015Mod/8020	Analyzed: 08/07/97
Attention: Paul Walte	Lab Number: 9708069-11	Reported: 08/07/97

QC Batch Number: GC080597BTEXEXB
Instrument ID: GCHP18

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	**2.5**	**14**
Benzene	0.012	N.D.
Toluene	**0.012**	**0.052**
Ethyl Benzene	**0.012**	**0.14**
Xylenes (Total)	**0.012**	**0.67**
Chromatogram Pattern:		**C6-C12**

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	119
4-Bromofluorobenzene	60	140	73

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

SEQUOIA ANALYTICAL - ELAP #1210

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Project Manager

Sequoia Analytical

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819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Cambria	Client Proj. ID: Shell 204-0072-0502, Alameda	Sampled: 08/01/97
1144 65th St. Suite C	Sample Descript: SB-A-5.0	Received: 08/04/97
Oakland, CA 94608	Matrix: SOLID	Extracted: 08/05/97
	Analysis Method: 8015Mod/8020	Analyzed: 08/06/97
Attention: Paul Waite	Lab Number: 9708069-12	Reported: 08/07/97

QC Batch Number: GC080597BTEXEXB
Instrument ID: GCHP18

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	**5.0**	**46**
Benzene	**0.025**	**0.15**
Toluene	**0.025**	**0.064**
Ethyl Benzene	**0.025**	**0.23**
Xylenes (Total)	**0.025**	**1.2**
Chromatogram Pattern:		**C6-C12**

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	122
4-Bromofluorobenzene	60	140	125

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

SEQUOIA ANALYTICAL - ELAP #1210

Kevin Follett
Project Manager

Sequoia Analytical

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Cambria	Client Proj. ID: Shell 204-0072-0502, Alameda	Sampled: 08/01/97
1144 65th St. Suite C	Sample Descript: SB-A-10.0	Received: 08/04/97
Oakland, CA 94608	Matrix: SOLID	Extracted: 08/05/97
	Analysis Method: 8015Mod/8020	Analyzed: 08/05/97
Attention: Paul Walte	Lab Number: 9708069-13	Reported: 08/07/97

QC Batch Number: GC080597BTEXEXB
Instrument ID: GCHP07

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	1.0	N.D.
Benzene	0.0050	N.D.
Toluene	0.0050	N.D.
Ethyl Benzene	0.0050	N.D.
Xylenes (Total)	**0.0050**	**0.017**
Chromatogram Pattern:		

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	90
4-Bromofluorobenzene	60	140	78

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

SEQUOIA ANALYTICAL - ELAP #1210

Kevin Follett
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Cambria	Client Proj. ID: Shell 204-0072-0502, Alameda	Sampled: 08/01/97
1144 65th St. Suite C	Sample Descript: SB-A-12.5	Received: 08/04/97
Oakland, CA 94608	Matrix: SOLID	Extracted: 08/05/97
	Analysis Method: 8015Mod/8020	Analyzed: 08/05/97
Attention: Paul Waite	Lab Number: 9708069-14	Reported: 08/07/97

QC Batch Number: GC080597BTEXEXB
Instrument ID: GCHP01

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	**10**	**71**
Benzene	0.050	N.D.
Toluene	0.050	N.D.
Ethyl Benzene	**0.050**	**0.098**
Xylenes (Total)	**0.050**	**0.85**
Chromatogram Pattern:		**C6-C12**

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	118
4-Bromofluorobenzene	60	140	190 Q

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

SEQUOIA ANALYTICAL - ELAP #1210

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Cambria	Client Proj. ID: Shell 204-0072-0502, Alameda	Sampled: 08/01/97
1144 65th St. Suite C	Sample Descript: SB-A-(7.5,5,10,12.5) Comp	Received: 08/04/97
Oakland, CA 94608	Matrix: SOLID	Extracted: 08/05/97
	Analysis Method: Title 22	Analyzed: 08/05/97
Attention: Paul Waite	Lab Number: 9708069-15	Reported: 08/07/97

Inorganic Persistent and Bioaccumulative Toxic Substances : TTLC

Analyte	Max. Limit mg/Kg	Detection Limit mg/Kg	Sample Results mg/Kg
Antimony, Sb	500	5.0	N.D.
Arsenic, As	500	5.0	N.D.
Barium, Ba	**10000**	**5.0**	**60**
Beryllium, Be	75	0.50	N.D.
Cadmium, Cd	100	0.50	N.D.
Chromium, Cr	**2500**	**0.50**	**39**
Cobalt, Co	**8000**	**2.5**	**7.3**
Copper, Cu	**2500**	**0.50**	**13**
Lead, Pb	1000	5.0	N.D.
Mercury, Hg	20	0.020	N.D.
Molybdenum, Mo	3500	2.5	N.D.
Nickel, Ni	**2000**	**2.5**	**46**
Selenium, Se	100	5.0	N.D.
Silver, Ag	500	0.50	N.D.
Thallium, Tl	700	5.0	N.D.
Vanadium, V	**2400**	**2.5**	**28**
Zinc, Zn	**5000**	**0.50**	**33**

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

SEQUOIA ANALYTICAL - ELAP #1210

Kevin Follett
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Cambria	Client Proj. ID: Shell 204-0072-0502, Alameda	Sampled: 08/01/97
1144 65th St. Suite C	Sample Descript: SB-B-10.0	Received: 08/04/97
Oakland, CA 94608	Matrix: SOLID	Extracted: 08/05/97
	Analysis Method: 8015Mod/8020	Analyzed: 08/05/97
Attention: Paul Waite	Lab Number: 9708069-16	Reported: 08/07/97

QC Batch Number: GC080597BTEXEXB
Instrument ID: GCHP01

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	1.0	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	83
4-Bromofluorobenzene	60	140	90

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

SEQUOIA ANALYTICAL - ELAP #1210

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Cambria	Client Proj. ID: Shell 204-0072-0502, Alameda	Sampled: 08/01/97
1144 65th St. Suite C	Sample Descript: SB-B-4.0	Received: 08/04/97
Oakland, CA 94608	Matrix: SOLID	Extracted: 08/05/97
	Analysis Method: 8015Mod/8020	Analyzed: 08/06/97
Attention: Paul Waite	Lab Number: 9708069-17	Reported: 08/07/97

QC Batch Number: GC080597BTEXEXB
Instrument ID: GCHP22

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	**1.0**	**1.2**
Benzene	**0.0050**	**0.013**
Toluene	0.0050	N.D.
Ethyl Benzene	**0.0050**	**0.014**
Xylenes (Total)	**0.0050**	**0.088**
Chromatogram Pattern:		**C6-C12**

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	118
4-Bromofluorobenzene	60	140	95

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

SEQUOIA ANALYTICAL - ELAP #1210

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Cambria	Client Proj. ID: Shell 204-0072-0502, Alameda	Sampled: 08/01/97
1144 65th St. Suite C	Sample Descript: SB-B-7.5	Received: 08/04/97
Oakland, CA 94608	Matrix: SOLID	Extracted: 08/05/97
	Analysis Method: 8015Mod/8020	Analyzed: 08/05/97
Attention: Paul Waite	Lab Number: 9708069-18	Reported: 08/07/97

QC Batch Number: GC080597BTEXEXB
Instrument ID: GCHP01

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	1.0	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	90
4-Bromofluorobenzene	60	140	94

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

SEQUOIA ANALYTICAL - ELAP #1210

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Cambria	Client Proj. ID: Shell 204-0072-0502, Alameda	Sampled: 08/01/97
1144 65th St. Suite C	Sample Descript: SB-B-12.0	Received: 08/04/97
Oakland, CA 94608	Matrix: SOLID	Extracted: 08/05/97
	Analysis Method: 8015Mod/8020	Analyzed: 08/05/97
Attention: Paul Waite	Lab Number: 9708069-19	Reported: 08/07/97

QC Batch Number: GC080597BTEXEXB
Instrument ID: GCHP01

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	1.0	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	83
4-Bromofluorobenzene	60	140	91

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

SEQUOIA ANALYTICAL - ELAP #1210

Kevin Follett
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Cambria	*Client Proj. ID:* Shell 204-0072-0502, Alameda	Sampled: 08/01/97
1144 65th St. Suite C	Sample Descript: SB-B-(10,4,7.5,12) Comp	Received: 08/04/97
Oakland, CA 94608	Matrix: SOLID	Extracted: 08/05/97
	Analysis Method: Title 22	Analyzed: 08/05/97
Attention: Paul Walte	Lab Number: 9708069-20	Reported: 08/07/97

Inorganic Persistent and Bioaccumulative Toxic Substances : TTLC

Analyte	Max. Limit mg/Kg	Detection Limit mg/Kg	Sample Results mg/Kg
Antimony, Sb	500	5.0	N.D.
Arsenic, As	500	5.0	N.D.
Barium, Ba	**10000**	**5.0**	**48**
Beryllium, Be	75	0.50	N.D.
Cadmium, Cd	100	0.50	N.D.
Chromium, Cr	**2500**	**0.50**	**25**
Cobalt, Co	**8000**	**2.5**	**4.8**
Copper, Cu	**2500**	**0.50**	**5.9**
Lead, Pb	1000	5.0	N.D.
Mercury, Hg	20	0.020	N.D.
Molybdenum, Mo	3500	2.5	N.D.
Nickel, Ni	**2000**	**2.5**	**23**
Selenium, Se	100	5.0	N.D.
Silver, Ag	500	0.50	N.D.
Thallium, Tl	700	5.0	N.D.
Vanadium, V	**2400**	**2.5**	**20**
Zinc, Zn	**5000**	**0.50**	**19**

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

SEQUOIA ANALYTICAL - ELAP #1210

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Cambria	Client Proj. ID: Shell 204-0072-0502, Alameda	Sampled: 08/01/97
1144 65th St. Suite C	Sample Descript: SB-C-10.0	Received: 08/04/97
Oakland, CA 94608	Matrix: SOLID	Extracted: 08/05/97
	Analysis Method: 8015Mod/8020	Analyzed: 08/06/97
Attention: Paul Waite	Lab Number: 9708069-21	Reported: 08/07/97

QC Batch Number: GC080597BTEXEXB
Instrument ID: GCHP01

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	1.0	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	100
4-Bromofluorobenzene	60	140	81

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

SEQUOIA ANALYTICAL - ELAP #1210

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Cambria	Client Proj. ID: Shell 204-0072-0502, Alameda	Sampled: 08/01/97
1144 65th St. Suite C	Sample Descript: SB-C-7.5	Received: 08/04/97
Oakland, CA 94608	Matrix: SOLID	Extracted: 08/05/97
	Analysis Method: 8015Mod/8020	Analyzed: 08/05/97
Attention: Paul Waite	Lab Number: 9708069-22	Reported: 08/07/97

QC Batch Number: GC080597BTEXEXB
Instrument ID: GCHP01

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	1.0	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	87
4-Bromofluorobenzene	60	140	87

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

SEQUOIA ANALYTICAL - ELAP #1210

Kevin Follett
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Cambria	Client Proj. ID: Shell 204-0072-0502, Alameda	Sampled: 08/01/97
1144 65th St. Suite C	Sample Descript: SB-C-6.0	Received: 08/04/97
Oakland, CA 94608	Matrix: SOLID	Extracted: 08/05/97
	Analysis Method: 8015Mod/8020	Analyzed: 08/05/97
Attention: Paul Waite	Lab Number: 9708069-23	Reported: 08/07/97

QC Batch Number: GC080597BTEXEXB
Instrument ID: GCHP01

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	**1.0**	**13**
Benzene	0.0050	N.D.
Toluene	0.0050	N.D.
Ethyl Benzene	**0.0050**	**0.032**
Xylenes (Total)	**0.0050**	**0.019**
Chromatogram Pattern:		**C6-C12**

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	101
4-Bromofluorobenzene	60	140	121

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

SEQUOIA ANALYTICAL - ELAP #1210

Kevin Follett
Project Manager

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819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

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

Attention: Paul Waite

Client Proj. ID: Shell 204-0072-0502, Alameda
Sample Descript: SB-C-14.0
Matrix: SOLID
Analysis Method: 8015Mod/8020
Lab Number: 9708069-24

Sampled: 08/01/97
Received: 08/04/97
Extracted: 08/05/97
Analyzed: 08/05/97
Reported: 08/07/97

QC Batch Number: GC080597BTEXEXB
Instrument ID: GCHP01

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	1.0	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	99
4-Bromofluorobenzene	60	140	83

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

SEQUOIA ANALYTICAL - ELAP #1210

Kevin Follett
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Cambria	Client Proj. ID: Shell 204-0072-0502, Alameda	Sampled: 08/01/97
1144 65th St. Suite C	Sample Descript: SB-C-(10,7.5,6,14) Comp	Received: 08/04/97
Oakland, CA 94608	Matrix: SOLID	Extracted: 08/05/97
	Analysis Method: Title 22	Analyzed: 08/05/97
Attention: Paul Waite	Lab Number: 9708069-25	Reported: 08/07/97

Inorganic Persistent and Bioaccumulative Toxic Substances : TTLC

Analyte	Max. Limit mg/Kg	Detection Limit mg/Kg	Sample Results mg/Kg
Antimony, Sb	500	5.0	N.D.
Arsenic, As	500	5.0	N.D.
Barium, Ba	**10000**	**5.0**	**29**
Beryllium, Be	75	0.50	N.D.
Cadmium, Cd	100	0.50	N.D.
Chromium, Cr	**2500**	**0.50**	**23**
Cobalt, Co	**8000**	**2.5**	**3.9**
Copper, Cu	**2500**	**0.50**	**4.0**
Lead, Pb	1000	5.0	N.D.
Mercury, Hg	**20**	**0.020**	**0.021**
Molybdenum, Mo	3500	2.5	N.D.
Nickel, Ni	**2000**	**2.5**	**18**
Selenium, Se	100	5.0	N.D.
Silver, Ag	500	0.50	N.D.
Thallium, Tl	700	5.0	N.D.
Vanadium, V	**2400**	**2.5**	**17**
Zinc, Zn	**5000**	**0.50**	**14**

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

SEQUOIA ANALYTICAL - ELAP #1210

Kevin Follett
Project Manager

Sequoia Analytical

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819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Cambria	Client Proj. ID: Shell 204-0072-0502, Alameda	Sampled: 08/01/97
1144 65th St. Suite C	Sample Descript: SB-D-9.5	Received: 08/04/97
Oakland, CA 94608	Matrix: SOLID	Extracted: 08/05/97
	Analysis Method: 8015Mod/8020	Analyzed: 08/06/97
Attention: Paul Waite	Lab Number: 9708069-26	Reported: 08/07/97

QC Batch Number: GC080597BTEXEXB
Instrument ID: GCHP22

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	**1.0**	**2.6**
Benzene	0.0050	N.D.
Toluene	**0.0050**	**0.0052**
Ethyl Benzene	**0.0050**	**0.0080**
Xylenes (Total)	**0.0050**	**0.043**
Chromatogram Pattern:		**C6-C12**

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	139 Q
4-Bromofluorobenzene	60	140	101

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

SEQUOIA ANALYTICAL - ELAP #1210

Kevin Follett
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Cambria	Client Proj. ID: Shell 204-0072-0502, Alameda	Sampled: 08/01/97
1144 65th St. Suite C	Sample Descript: SB-D-7.5	Received: 08/04/97
Oakland, CA 94608	Matrix: SOLID	Extracted: 08/05/97
	Analysis Method: 8015Mod/8020	Analyzed: 08/05/97
Attention: Paul Walte	Lab Number: 9708069-27	Reported: 08/07/97

QC Batch Number: GC080597BTEXEXB
Instrument ID: GCHP01

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	1.0	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	92
4-Bromofluorobenzene	60	140	77

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

SEQUOIA ANALYTICAL - ELAP #1210

Kevin Follett
Project Manager

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Cambria	Client Proj. ID: Shell 204-0072-0502, Alameda	Sampled: 08/01/97
1144 65th St. Suite C	Sample Descript: SB-D-5.5	Received: 08/04/97
Oakland, CA 94608	Matrix: SOLID	Extracted: 08/05/97
	Analysis Method: 8015Mod/8020	Analyzed: 08/06/97
Attention: Paul Waite	Lab Number: 9708069-28	Reported: 08/07/97

QC Batch Number: GC080597BTEXEXB
Instrument ID: GCHP22

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	**2.5**	**16**
Benzene	0.012	N.D.
Toluene	**0.012**	**0.036**
Ethyl Benzene	**0.012**	**0.096**
Xylenes (Total)	**0.012**	**0.17**
Chromatogram Pattern:		**C6-C12**

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	226 Q
4-Bromofluorobenzene	60	140	125

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

SEQUOIA ANALYTICAL - ELAP #1210

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Cambria	Client Proj. ID: Shell 204-0072-0502, Alameda	Sampled: 08/01/97
1144 65th St. Suite C	Sample Descript: SB-D-11.5	Received: 08/04/97
Oakland, CA 94608	Matrix: SOLID	Extracted: 08/05/97
	Analysis Method: 8015Mod/8020	Analyzed: 08/05/97
Attention: Paul Waite	Lab Number: 9708069-29	Reported: 08/07/97

QC Batch Number: GC080597BTEXEXB
Instrument ID: GCHP01

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	1.0	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	89
4-Bromofluorobenzene	60	140	78

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

SEQUOIA ANALYTICAL - ELAP #1210

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Cambria	Client Proj. ID: Shell 204-0072-0502, Alameda	Sampled: 08/01/97
1144 65th St. Suite C	Sample Descript: SB-D-(9.5,7.5,5.5,11.5)Cmp	Received: 08/04/97
Oakland, CA 94608	*Matrix: SOLID*	Extracted: 08/05/97
	Analysis Method: Title 22	Analyzed: 08/05/97
Attention: Paul Waite	Lab Number: 9708069-30	Reported: 08/07/97

Inorganic Persistent and Bioaccumulative Toxic Substances : TTLC

Analyte	Max. Limit mg/Kg	Detection Limit mg/Kg	Sample Results mg/Kg
Antimony, Sb	500	5.0	N.D.
Arsenic, As	500	5.0	N.D.
Barium, Ba	**10000**	**5.0**	**43**
Beryllium, Be	75	0.50	N.D.
Cadmium, Cd	100	0.50	N.D.
Chromium, Cr	**2500**	**0.50**	**19**
Cobalt, Co	**8000**	**2.5**	**4.1**
Copper, Cu	**2500**	**0.50**	**6.7**
Lead, Pb	1000	5.0	N.D.
Mercury, Hg	**20**	**0.020**	**0.040**
Molybdenum, Mo	3500	2.5	N.D.
Nickel, NI	**2000**	**2.5**	**18**
Selenium, Se	100	5.0	N.D.
Silver, Ag	500	0.50	N.D.
Thallium, Tl	700	5.0	N.D.
Vanadium, V	**2400**	**2.5**	**15**
Zinc, Zn	**5000**	**0.50**	**16**

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

SEQUOIA ANALYTICAL - ELAP #1210

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Cambria	Client Proj. ID: Shell 204-0072-0502, Alameda	Sampled: 08/01/97
1144 65th St. Suite C	Sample Descript: SB-E-12.5	Received: 08/04/97
Oakland, CA 94608	Matrix: SOLID	Extracted: 08/05/97
	Analysis Method: 8015Mod/8020	Analyzed: 08/05/97
Attention: Paul Waite	Lab Number: 9708069-31	Reported: 08/07/97

QC Batch Number: GC080597BTEXEXB
Instrument ID: GCHP01

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	1.0	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	88
4-Bromofluorobenzene	60	140	91

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

SEQUOIA ANALYTICAL - ELAP #1210

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Cambria	Client Proj. ID: Shell 204-0072-0502, Alameda	Sampled: 08/01/97
1144 65th St. Suite C	Sample Descript: SB-E-6.0	Received: 08/04/97
Oakland, CA 94608	Matrix: SOLID	Extracted: 08/05/97
	Analysis Method: 8015Mod/8020	Analyzed: 08/06/97
Attention: Paul Waite	Lab Number: 9708069-32	Reported: 08/07/97

QC Batch Number: GC080597BTEXEXB
Instrument ID: GCHP22

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	**1.0**	**1.1**
Benzene	**0.0050**	**0.031**
Toluene	**0.0050**	**0.13**
Ethyl Benzene	0.0050	N.D.
Xylenes (Total)	**0.0050**	**0.25**
Chromatogram Pattern:		**C6-C12**

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	106
4-Bromofluorobenzene	60	140	90

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

SEQUOIA ANALYTICAL - ELAP #1210

Kevin Follett
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Cambria	Client Proj. ID: Shell 204-0072-0502, Alameda	Sampled: 08/01/97
1144 65th St. Suite C	Sample Descript: SB-E-7.5	Received: 08/04/97
Oakland, CA 94608	Matrix: SOLID	Extracted: 08/05/97
	Analysis Method: 8015Mod/8020	Analyzed: 08/05/97
Attention: Paul Waite	Lab Number: 9708069-33	Reported: 08/07/97

QC Batch Number: GC080597BTEXEXB
Instrument ID: GCHP01

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	1.0	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	88
4-Bromofluorobenzene	60	140	86

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

SEQUOIA ANALYTICAL - ELAP #1210

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Cambria	Client Proj. ID: Shell 204-0072-0502, Alameda	Sampled: 08/01/97
1144 65th St. Suite C	Sample Descript: SB-E-10.5	Received: 08/04/97
Oakland, CA 94608	Matrix: SOLID	Extracted: 08/05/97
	Analysis Method: 8015Mod/8020	Analyzed: 08/06/97
Attention: Paul Waite	Lab Number: 9708069-34	Reported: 08/07/97

QC Batch Number: GC080597BTEXEXB
Instrument ID: GCHP01

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	**1.0**	**1.3**
Benzene	**0.0050**	**0.0061**
Toluene	**0.0050**	**0.042**
Ethyl Benzene	0.0050	N.D.
Xylenes (Total)	**0.0050**	**0.13**
Chromatogram Pattern:		**C6-C12**

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	86
4-Bromofluorobenzene	60	140	105

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

SEQUOIA ANALYTICAL - ELAP #1210

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Cambria	Client Proj. ID: Shell 204-0072-0502, Alameda	Sampled: 08/01/97
1144 65th St. Suite C	Sample Descript: SB-E-(12.5,6,7.5,10.5)Comp	Received: 08/04/97
Oakland, CA 94608	Matrix: SOLID	Extracted: 08/05/97
	Analysis Method: Title 22	Analyzed: 08/05/97
Attention: Paul Waite	Lab Number: 9708069-35	Reported: 08/07/97

Inorganic Persistent and Bioaccumulative Toxic Substances : TTLC

Analyte	Max. Limit mg/Kg	Detection Limit mg/Kg	Sample Results mg/Kg
Antimony, Sb	500	5.0	N.D.
Arsenic, As	500	5.0	N.D.
Barium, Ba	**10000**	**5.0**	**29**
Beryllium, Be	75	0.50	N.D.
Cadmium, Cd	100	0.50	N.D.
Chromium, Cr	**2500**	**0.50**	**20**
Cobalt, Co	**8000**	**2.5**	**4.5**
Copper, Cu	**2500**	**0.50**	**6.1**
Lead, Pb	1000	5.0	N.D.
Mercury, Hg	20	0.020	N.D.
Molybdenum, Mo	3500	2.5	N.D.
Nickel, Ni	**2000**	**2.5**	**22**
Selenium, Se	100	5.0	N.D.
Silver, Ag	500	0.50	N.D.
Thallium, Tl	700	5.0	N.D.
Vanadium, V	**2400**	**2.5**	**18**
Zinc, Zn	**5000**	**0.50**	**20**

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

SEQUOIA ANALYTICAL - ELAP #1210

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Cambria	Client Proj. ID: Shell 204-0072-0502, Alameda	Sampled: 08/01/97
1144 65th St. Suite C	Sample Descript: SB-F-7.5	Received: 08/04/97
Oakland, CA 94608	Matrix: SOLID	Extracted: 08/05/97
	Analysis Method: 8015Mod/8020	Analyzed: 08/06/97
Attention: Paul Waite	Lab Number: 9708069-36	Reported: 08/07/97

QC Batch Number: GC080597BTEXEXB
Instrument ID: GCHP01

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	1.0	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	95
4-Bromofluorobenzene	60	140	90

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

SEQUOIA ANALYTICAL - ELAP #1210

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Cambria	Client Proj. ID: Shell 204-0072-0502, Alameda	Sampled: 08/01/97
1144 65th St. Suite C	Sample Descript: SB-F-4.0	Received: 08/04/97
Oakland, CA 94608	Matrix: SOLID	Extracted: 08/05/97
	Analysis Method: 8015Mod/8020	Analyzed: 08/06/97
Attention: Paul Waite	Lab Number: 9708071-37	Reported: 08/07/97

QC Batch Number: GC080597BTEXEXC
Instrument ID: GCHP01

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	**1.0**	**1.1**
Benzene	**0.0050**	**0.0059**
Toluene	**0.0050**	**0.011**
Ethyl Benzene	0.0050	N.D.
Xylenes (Total)	**0.0050**	**0.025**
Chromatogram Pattern:		**C6-C12**

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	101
4-Bromofluorobenzene	60	140	72

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

SEQUOIA ANALYTICAL - ELAP #1210

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Cambria	Client Proj. ID: Shell 204-0072-0502, Alameda	Sampled: 08/01/97
1144 65th St. Suite C	Sample Descript: SB-F-10.0	Received: 08/04/97
Oakland, CA 94608	Matrix: SOLID	Extracted: 08/05/97
	Analysis Method: 8015Mod/8020	Analyzed: 08/06/97
Attention: Paul Waite	Lab Number: 9708071-38	Reported: 08/07/97

QC Batch Number: GC080597BTEXEXC
Instrument ID: GCHP01

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	1.0	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	95
4-Bromofluorobenzene	60	140	78

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

SEQUOIA ANALYTICAL - ELAP #1210

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Cambria	Client Proj. ID: Shell 204-0072-0502, Alameda	Sampled: 08/01/97
1144 65th St. Suite C	Sample Descript: SB-F-12.0	Received: 08/04/97
Oakland, CA 94608	Matrix: SOLID	Extracted: 08/05/97
	Analysis Method: 8015Mod/8020	Analyzed: 08/05/97
Attention: Paul Waite	Lab Number: 9708071-39	Reported: 08/07/97

QC Batch Number: GC080597BTEXEXC
Instrument ID: GCHP18

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	1.0	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	89
4-Bromofluorobenzene	60	140	95

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

SEQUOIA ANALYTICAL - ELAP #1210

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Cambria	Client Proj. ID: Shell 204-0072-0502, Alameda	Sampled: 08/01/97
1144 65th St. Suite C	Sample Descript: SB-F-(7.5,4,10,12) Comp	Received: 08/04/97
Oakland, CA 94608	Matrix: SOLID	Extracted: 08/05/97
	Analysis Method: Title 22	Analyzed: 08/05/97
Attention: Paul Waite	Lab Number: 9708071-40	Reported: 08/07/97

Inorganic Persistent and Bioaccumulative Toxic Substances : TTLC

Analyte	Max. Limit mg/Kg	Detection Limit mg/Kg	Sample Results mg/Kg
Antimony, Sb	500	5.0	N.D.
Arsenic, As	500	5.0	N.D.
Barium, Ba	**10000**	**5.0**	**42**
Beryllium, Be	75	0.50	N.D.
Cadmium, Cd	100	0.50	N.D.
Chromium, Cr	**2500**	**0.50**	**24**
Cobalt, Co	**8000**	**2.5**	**4.5**
Copper, Cu	**2500**	**0.50**	**5.0**
Lead, Pb	1000	5.0	N.D.
Mercury, Hg	20	0.020	N.D.
Molybdenum, Mo	3500	2.5	N.D.
Nickel, Ni	**2000**	**2.5**	**23**
Selenium, Se	100	5.0	N.D.
Silver, Ag	500	0.50	N.D.
Thallium, Tl	700	5.0	N.D.
Vanadium, V	**2400**	**2.5**	**18**
Zinc, Zn	**5000**	**0.50**	**18**

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

SEQUOIA ANALYTICAL - ELAP #1210

Kevin Follett
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819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Cambria	Client Proj. ID: Shell 204-0072-0502, Alameda	Sampled: 08/01/97
1144 65th St. Suite C	Sample Descript: SB-G-4.0	Received: 08/04/97
Oakland, CA 94608	Matrix: SOLID	Extracted: 08/05/97
	Analysis Method: 8015Mod/8020	Analyzed: 08/05/97
Attention: Paul Waite	Lab Number: 9708071-41	Reported: 08/07/97

QC Batch Number: GC080597BTEXEXC
Instrument ID: GCHP18

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	1.0	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	96
4-Bromofluorobenzene	60	140	99

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

SEQUOIA ANALYTICAL - ELAP #1210

Kevin Follett
Project Manager

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Cambria	Client Proj. ID: Shell 204-0072-0502, Alameda	Sampled: 08/01/97
1144 65th St. Suite C	Sample Descript: SB-G-7.5	Received: 08/04/97
Oakland, CA 94608	Matrix: SOLID	Extracted: 08/05/97
	Analysis Method: 8015Mod/8020	Analyzed: 08/05/97
Attention: Paul Waite	Lab Number: 9708071-42	Reported: 08/07/97

QC Batch Number: GC080597BTEXEXC
Instrument ID: GCHP18

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	1.0	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	95
4-Bromofluorobenzene	60	140	93

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

SEQUOIA ANALYTICAL - ELAP #1210

Kevin Follett
Project Manager

Sequoia Analytical

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819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Cambria	Client Proj. ID: Shell 204-0072-0502, Alameda	Sampled: 08/01/97
1144 65th St. Suite C	Sample Descript: SB-G-10.0	Received: 08/04/97
Oakland, CA 94608	Matrix: SOLID	Extracted: 08/05/97
	Analysis Method: 8015Mod/8020	Analyzed: 08/05/97
Attention: Paul Waite	Lab Number: 9708071-43	Reported: 08/07/97

QC Batch Number: GC080597BTEXEXC
Instrument ID: GCHP18

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	1.0	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	92
4-Bromofluorobenzene	60	140	91

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

SEQUOIA ANALYTICAL - ELAP #1210

Kevin Follett
Project Manager

Sequoia Analytical

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Cambria	*Client Proj. ID: Shell 204-0072-0502, Alameda*	Sampled: 08/01/97
1144 65th St. Suite C	Sample Descript: SB-G-12.0	Received: 08/04/97
Oakland, CA 94608	Matrix: SOLID	Extracted: 08/05/97
	Analysis Method: 8015Mod/8020	Analyzed: 08/05/97
Attention: Paul Waite	Lab Number: 9708071-44	Reported: 08/07/97

QC Batch Number: GC080597BTEXEXC
Instrument ID: GCHP18

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	1.0	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	82
4-Bromofluorobenzene	60	140	82

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

SEQUOIA ANALYTICAL - ELAP #1210

Kevin Follett
Project Manager

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819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Cambria	Client Proj. ID: Shell 204-0072-0502, Alameda	Sampled: 08/01/97
1144 65th St. Suite C	Sample Descript: SB-G-(4,7.5,10,12) Comp	Received: 08/04/97
Oakland, CA 94608	Matrix: SOLID	Extracted: 08/05/97
	Analysis Method: Title 22	Analyzed: 08/05/97
Attention: Paul Waite	Lab Number: 9708071-45	Reported: 08/07/97

Inorganic Persistent and Bioaccumulative Toxic Substances : TTLC

Analyte	Max. Limit mg/Kg	Detection Limit mg/Kg	Sample Results mg/Kg
Antimony, Sb	500	5.0	N.D.
Arsenic, As	500	5.0	N.D.
Barium, Ba	**10000**	**5.0**	**39**
Beryllium, Be	75	0.50	N.D.
Cadmium, Cd	100	0.50	N.D.
Chromium, Cr	**2500**	**0.50**	**24**
Cobalt, Co	**8000**	**2.5**	**5.6**
Copper, Cu	**2500**	**0.50**	**15**
Lead, Pb	1000	5.0	N.D.
Mercury, Hg	20	0.020	N.D.
Molybdenum, Mo	3500	2.5	N.D.
Nickel, Ni	**2000**	**2.5**	**21**
Selenium, Se	100	5.0	N.D.
Silver, Ag	500	0.50	N.D.
Thallium, Tl	700	5.0	N.D.
Vanadium, V	**2400**	**2.5**	**18**
Zinc, Zn	**5000**	**0.50**	**17**

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

SEQUOIA ANALYTICAL - ELAP #1210

Kevin Follett
Project Manager

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Cambria	Client Proj. ID: Shell 204-0072-0502, Alameda	Sampled: 08/01/97
1144 65th St. Suite C	Sample Descript: SB-H-4.0	Received: 08/04/97
Oakland, CA 94608	Matrix: SOLID	Extracted: 08/05/97
	Analysis Method: 8015Mod/8020	Analyzed: 08/05/97
Attention: Paul Waite	Lab Number: 9708071-46	Reported: 08/07/97

QC Batch Number: GC080597BTEXEXC
Instrument ID: GCHP07

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	1.0	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	70
4-Bromofluorobenzene	60	140	79

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

SEQUOIA ANALYTICAL - ELAP #1210

Kevin Follett
Project Manager

Sequoia Analytical

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819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Cambria	Client Proj. ID: Shell 204-0072-0502, Alameda	Sampled: 08/01/97
1144 65th St. Suite C	Sample Descript: SB-H-7.5	Received: 08/04/97
Oakland, CA 94608	Matrix: SOLID	Extracted: 08/05/97
	Analysis Method: 8015Mod/8020	Analyzed: 08/06/97
Attention: Paul Waite	Lab Number: 9708071-47	Reported: 08/07/97

QC Batch Number: GC080597BTEXEXC
Instrument ID: GCHP18

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	1.0	N.D.
Benzene	0.0050	N.D.
Toluene	0.0050	N.D.
Ethyl Benzene	0.0050	N.D.
Xylenes (Total)	**0.0050**	**0.0056**
Chromatogram Pattern:		

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	92
4-Bromofluorobenzene	60	140	92

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

SEQUOIA ANALYTICAL - ELAP #1210

Kevin Follett
Project Manager

Sequoia Analytical

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819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Cambria	Client Proj. ID: Shell 204-0072-0502, Alameda	Sampled: 08/01/97
1144 65th St. Suite C	Sample Descript: SB-H-10.0	Received: 08/04/97
Oakland, CA 94608	Matrix: SOLID	Extracted: 08/05/97
	Analysis Method: 8015Mod/8020	Analyzed: 08/05/97
Attention: Paul Waite	Lab Number: 9708071-48	Reported: 08/07/97

QC Batch Number: GC080597BTEXEXC
Instrument ID: GCHP22

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	1.0	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	97
4-Bromofluorobenzene	60	140	89

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

SEQUOIA ANALYTICAL - ELAP #1210

Kevin Follett
Project Manager

Sequoia Analytical

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819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Cambria	Client Proj. ID: Shell 204-0072-0502, Alameda	Sampled: 08/01/97
1144 65th St. Suite C	Sample Descript: SB-H-12.0	Received: 08/04/97
Oakland, CA 94608	Matrix: SOLID	Extracted: 08/05/97
	Analysis Method: 8015Mod/8020	Analyzed: 08/05/97
Attention: Paul Waite	Lab Number: 9708071-49	Reported: 08/07/97

QC Batch Number: GC080597BTEXEXC
Instrument ID: GCHP22

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	1.0	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	102
4-Bromofluorobenzene	60	140	90

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

SEQUOIA ANALYTICAL - ELAP #1210

Kevin Follett
Project Manager

Sequoia Analytical

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819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Cambria	Client Proj. ID: Shell 204-0072-0502, Alameda	Sampled: 08/01/97
1144 65th St. Suite C	Sample Descript: SB-H-(4,7.5,10,12) Comp	Received: 08/04/97
Oakland, CA 94608	Matrix: SOLID	Extracted: 08/05/97
	Analysis Method: Title 22	Analyzed: 08/05/97
Attention: Paul Walte	Lab Number: 9708071-50	Reported: 08/07/97

Inorganic Persistent and Bioaccumulative Toxic Substances : TTLC

Analyte	Max. Limit mg/Kg	Detection Limit mg/Kg	Sample Results mg/Kg
Antimony, Sb	500	5.0	N.D.
Arsenic, As	500	5.0	N.D.
Barium, Ba	**10000**	**5.0**	**43**
Beryllium, Be	75	0.50	N.D.
Cadmium, Cd	100	0.50	N.D.
Chromium, Cr	**2500**	**0.50**	**20**
Cobalt, Co	**8000**	**2.5**	**3.6**
Copper, Cu	**2500**	**0.50**	**4.3**
Lead, Pb	1000	5.0	N.D.
Mercury, Hg	20	0.020	N.D.
Molybdenum, Mo	3500	2.5	N.D.
Nickel, Ni	**2000**	**2.5**	**18**
Selenium, Se	100	5.0	N.D.
Silver, Ag	**500**	**0.50**	**47**
Thallium, Tl	700	5.0	N.D.
Vanadium, V	**2400**	**2.5**	**15**
Zinc, Zn	**5000**	**0.50**	**14**

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

SEQUOIA ANALYTICAL - ELAP #1210

Kevin Follett
Project Manager

Sequoia Analytical

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

Client Project ID: Shell 204-0072-0502, Alameda
Matrix: Solid
Work Order #: 9708069 01-09
Reported: Aug 8, 1997

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes	Gas
QC Batch#:	GC080597BTEXEXA	GC080597BTEXEXA	GC080597BTEXEXA	GC080597BTEXEXA	GC080597BTEXEXA
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. Porter	A. Porter	A. Porter	A. Porter	A. Porter
MS/MSD #:	970806603	970806603	970806603	970806603	970806603
Sample Conc.:	N.D.	N.D.	N.D.	N.D.	N.D.
Prepared Date:	8/5/97	8/5/97	8/5/97	8/5/97	8/5/97
Analyzed Date:	8/5/97	8/5/97	8/5/97	8/5/97	8/5/97
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:	0.17	0.18	0.18	0.56	1.2
MS % Recovery:	85	90	90	93	100
Dup. Result:	0.17	0.17	0.17	0.53	1.2
MSD % Recov.:	85	85	85	88	100
RPD:	0.0	5.7	5.7	5.5	0.0
RPD Limit:	0-25	0-25	0-25	0-25	0-25
LCS #:	BLK080597	BLK080597	BLK080597	BLK080597	BLK080597
Prepared Date:	8/5/97	8/5/97	8/5/97	8/5/97	8/5/97
Analyzed Date:	8/5/97	8/5/97	8/5/97	8/5/97	8/5/97
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:	0.19	0.18	0.20	0.60	1.3
LCS % Recov.:	95	95	100	100	108
MS/MSD Control Limits	60-140	60-140	60-140	60-140	60-140
LCS Control Limits	70-130	70-130	70-130	70-130	70-130

SEQUOIA ANALYTICAL

Kevin Follett
Project Manager

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

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

Sequoia Analytical

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

Client Project ID: Shell 204-0072-0502, Alameda
Matrix: Solid
Work Order #: 9708069 10-34
Reported: Aug 8, 1997

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes	Gas
QC Batch#:	GC080597BTEXEXB	GC080597BTEXEXB	GC080597BTEXEXB	GC080597BTEXEXB	GC080597BTEXEXA
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. Porter	A. Porter	A. Porter	A. Porter	A. Porter
MS/MSD #:	970806913	970806913	970806913	970806913	970806913
Sample Conc.:	N.D.	N.D.	N.D.	N.D.	N.D.
Prepared Date:	8/5/97	8/5/97	8/5/97	8/5/97	8/5/97
Analyzed Date:	8/5/97	8/5/97	8/5/97	8/5/97	8/5/97
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:	0.14	0.14	0.15	0.48	1.0
MS % Recovery:	70	70	75	77	83
Dup. Result:	0.15	0.15	0.17	0.51	1.1
MSD % Recov.:	75	75	85	82	92
RPD:	6.9	6.9	13	6.1	9.5
RPD Limit:	0-25	0-25	0-25	0-25	0-25
LCS #:	BLK080597	BLK080597	BLK080597	BLK080597	BLK080597
Prepared Date:	8/5/97	8/5/97	8/5/97	8/5/97	8/5/97
Analyzed Date:	8/5/97	8/5/97	8/5/97	8/5/97	8/5/97
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:	0.18	0.18	0.18	0.56	1.2
LCS % Recov.:	90	90	90	93	100
MS/MSD Control Limits	60-140	60-140	60-140	60-140	60-140
LCS Control Limits	70-130	70-130	70-130	70-130	70-130

SEQUOIA ANALYTICAL

Kevin Follett
Project Manager

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

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

Sequoia Analytical

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

Client Project ID: Shell 204-0072-0502, Alameda
Matrix: Solid
Work Order #: 9708069 36-49
Reported: Aug 8, 1997

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes	Gas
QC Batch#:	GC080597BTEXEXC	GC080597BTEXEXC	GC080597BTEXEXC	GC080597BTEXEXC	GC080597BTEXEXA
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. Porter	A. Porter	A. Porter	A. Porter	A. Porter
MS/MSD #:	970802109	970802109	970802109	970802109	970802109
Sample Conc.:	N.D.	N.D.	N.D.	N.D.	N.D.
Prepared Date:	8/5/97	8/5/97	8/5/97	8/5/97	8/5/97
Analyzed Date:	8/5/97	8/5/97	8/5/97	8/5/97	8/5/97
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:	0.48	0.18	0.19	0.58	1.3
MS % Recovery:	240	90	95	97	108
Dup. Result:	0.17	0.17	0.18	0.55	1.2
MSD % Recov.:	85	85	90	92	100
RPD:	95	5.7	5.4	5.3	9.5
RPD Limit:	0-25	0-25	0-25	0-25	0-25
LCS #:	BLK080597	BLK080597	BLK080597	BLK080597	BLK080597
Prepared Date:	8/5/97	8/5/97	8/5/97	8/5/97	8/5/97
Analyzed Date:	8/6/97	8/6/97	8/6/97	8/6/97	8/6/97
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:	0.18	0.18	0.19	0.56	1.3
LCS % Recov.:	90	90	95	93	108
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					

SEQUOIA ANALYTICAL

Kevin Follett
Project Manager

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

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

Sequoia Analytical

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

Client Project ID: Shell 204-0072-0502, Alameda
Matrix: Solid
Work Order #: 9708069 05, 10, 15, 20, 25, 30, 35, 40, 45, 50

Reported: Aug 8, 1997

QUALITY CONTROL DATA REPORT

Analyte:	Beryllium	Cadmium	Chromium	Nickel	Mercury
QC Batch#:	ME0805976010MDE	ME0805976010MDE	ME0805976010MDE	ME0805976010MDE	ME0805977471M4A
Analy. Method:	EPA 6010	EPA 6010	EPA 6010	EPA 6010	EPA 7471
Prep. Method:	EPA 3050	EPA 3050	EPA 3050	EPA 3050	EPA 7471
Analyst:	R. Butler	R. Butler	R. Butler	R. Butler	M. Heid
MS/MSD #:	970802130	970802130	970802130	970802130	970740601
Sample Conc.:	N.D.	N.D.	37	43	N.D.
Prepared Date:	8/5/97	8/5/97	8/5/97	8/5/97	8/5/97
Analyzed Date:	8/5/97	8/5/97	8/5/97	8/5/97	8/6/97
Instrument I.D.#:	MTJA2	MTJA2	MTJA2	MTJA2	MPE4
Conc. Spiked:	50 mg/Kg	50 mg/Kg	50 mg/Kg	50 mg/Kg	0.40 mg/Kg
Result:	43	42	74	80	0.31
MS % Recovery:	86	84	74	74	78
Dup. Result:	47	47	84	89	0.32
MSD % Recov.:	94	94	94	92	80
RPD:	8.9	11	13	11	3.2
RPD Limit:	0-20	0-20	0-20	0-20	0-20

LCS #:	BLK080597	BLK080597	BLK080597	BLK080597	BLK080597
Prepared Date:	8/5/97	8/5/97	8/5/97	8/5/97	8/5/97
Analyzed Date:	8/5/97	8/5/97	8/5/97	8/5/97	8/6/97
Instrument I.D.#:	MTJA2	MTJA2	MTJA2	MTJA2	MPE4
Conc. Spiked:	50 mg/Kg	50 mg/Kg	50 mg/Kg	50 mg/Kg	0.40 mg/Kg
LCS Result:	48	48	49	49	0.33
LCS % Recov.:	96	96	98	98	83

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

SEQUOIA ANALYTICAL

Kevin Follett
Project Manager

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

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

SHELL OIL COMPANY
RETAIL ENVIRONMENTAL ENGINEERING - WEST

CHAIN OF CUSTODY RECORD
Serial No: 97080 (69/71)

Date: 8/1/97
Page of

Site Address: 2160 Otis Street Alameda

WIC#: 204-0072-0502

Shell Engineer: Lisa Maglines — Phone No.: 675-6136, Fax #: 675-6130

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

Consultant Contact: Paul Waite — Phone No.: 510 420-0700, Fax #: 420-9170

Comments: Use Attached Protocol !

Sampled by: Maureen Feineman

Printed Name: Maureen Feineman

LAB: Sequoia

UST AGENCY: Alameda

CHECK ONE (1) BOX ONLY	C1/D1
G.W. Monitoring	4461
Site Investigation	4441
Soil Classify/Disposal	X 4442
Water Classify/Disposal	4443
Soil/Air Rem. or Sys. O & M	4452
Water Rem. or Sys. O & M	4453
Other	

TURN AROUND TIME: 24 hours [ ]; 48 hours [X]; 15 days [ ] (Normal); Other [ ]

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

Analysis Required: TPH (EPA 8015 Mod. Gas); TPH (EPA 8015 Mod. Diesel); BTEX (EPA 8020/602); Volatile Organics (EPA 8240); Test for Disposal; Combination TPH 8015 & BTEX 8020; Asbestos; Container Size; Preparation Used; Composite Y/N

Sample ID	Date	Time	Soil	Water	Air	No. of conts.	MATERIAL DESCRIPTION	SAMPLE CONDITION/ COMMENTS
SB-A 7.5'	8/1	8:40	1			1		
SB-A 5.0'		8:40	1			1		
SB-A 10.0'		8:45	1			1		
SB-A 12.5'		8:50	1			1		
SB-B 10.0'		9:00	1			1		
SB-B 4.0'		9:55	1			1		
SB-B 7.5'		8:55	1			1		
SB-B 12.0'		9:05	1			1		

4:1 Composite for CAM Metals

4:1 Composite for CAM Metals

AU 4 1 13

	Printed Name	Date/Time	Received (signature)	Printed Name	Date/Time
Relinquished By (signature):	Christina Empedalles	Date: 8/4/97 Time: 17:15	Received (signature):	Penaflor	Date: 8/4/97 Time: 17:15
Relinquished By (signature):	Penaflor	Date: 8/4/97 Time:	Received (signature):		Date: Time:
Relinquished By (signature):		Date: Time:	Received (signature):	Alex	Date: 8/4/97 Time: 1313

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: 9708069/71

Date: 8/1/97
Page of

Site Address: 2160 Otis Street Alameda

WIC#: 204-0072-0502

Shell Engineer: Lisa Maylines — Phone No.: 675-6136 Fax #: 675-6130

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

Consultant Contact: Paul Waite — Phone No.: 510 420-0700 Fax #: 420-9170

Comments: Use Attached Protocol !

Sampled by: Maureen Feineman

Printed Name: Maureen Feineman

LAB: Sequoia

CHECK ONE (1) BOX ONLY — C1/D1

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

TURN AROUND TIME

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

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

UST AGENCY: Alameda

Analysis Required

Sample ID	Date	Time Sludge	Soil	Water	Air	No. of conts.	TPH (EPA 8015 Mod. Gas)	TPH (EPA 8015 Mod. Diesel)	BTEX (EPA 8020/602)	Volatile Organics (EPA 8240)	Test for Disposal	Combination TPH 8015 & BTEX 8020	Asbestos	Container Size	Preparation Used	Composite Y/N	MATERIAL DESCRIPTION	SAMPLE CONDITION/ COMMENTS
SB-E-12.5'	8/1	11:00	1															
SB-E-6.0'		10:45	1															4:1 Composite CAM Metals
SB-E-7.5'		10.45	1															
SB-E 10.5'		10:55	1															
SB-F 7.5		12:55	1															
SB-F 4.0'		12:55	1															4:1 Composite CAM Metals.
SB-F 10.0'		1:00	1															
SB-F 12.0'		1:07	1															

Relinquished By (signature):	Printed Name: CHRISTINA EMPEDOCLES	Date: 8/4/97 Time: 17:15	Received (signature):	Printed Name: PONAPOR	Date: 8/4/97 Time: 17:15
Relinquished By (signature):	Printed Name: PONAPOR	Date: 8/4/97 Time:	Received (signature):	Printed Name:	Date: Time:
Relinquished By (signature):	Printed Name:	Date: Time:	Received (signature):	Printed Name: ABAD	Date: 8/4/97 Time: 1513

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: 92080691/71

Date: 8/1/97
Page of

Site Address: 2160 Otis Street Alameda
WIC#: 204-0072-0502
Shell Engineer: Lisa Maglines
Phone No.: 675-6136
Fax #: 675-6130
Consultant Name & Address: CAMBRIA ENVIRONMENTAL 1144 65th St. Suite C, Oakland, CA 94608
Consultant Contact: Paul Waite
Phone No.: 510 420-0700
Fax #: 420-9170
Comments: Use Attached Protocol !
Sampled by: Maureen Feineman
Printed Name: Maureen Feineman

LAB: Seqouia

CHECK ONE (1) BOX ONLY | C1/D1
- G.W. Monitoring [ ] 4441
- Site Investigation [ ] 4441
- Soil Classify/Disposal [X] 4442
- Water Classify/Disposal [ ] 4443
- Soil/Air Rem. or Sys. O & M [ ] 4452
- Water Rem. or Sys. O & M [ ] 4453
- Other [ ]

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

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

AUG 4 1997

UST AGENCY: Alameda

Analysis Required: TPH (EPA 8015 Mod. Gas); TPH (EPA 8015 Mod. Diesel); BTEX (EPA 8020/602); Volatile Organics (EPA 8240); Test for Disposal; Combination TPH 8015 & BTEX 8020; Asbestos; Container Size; Preparation Used; Composite Y/N

Sample ID	Date	Time Sludge	Soil	Water	Air	No. of conts.	MATERIAL DESCRIPTION	SAMPLE CONDITION/ COMMENTS
SB-C-10.0'	8/1	9:43	1					
SB-C-7.5'		9:35	1					
SB-C-6.0'		9:35	1				4:1 Composite for	
SB-C 14.0'		9:45	1				CAM Metals	
SB-D-9.5'		10:15	1					
SB-D-7.5'		10:10	1					
SB-D 5.5'		10:10	1				4:1 Composite for	
SB-D-11.5'		10:15	1				CAM Metals	

Relinquished By (signature):	Printed Name: CHRISTINA EMPEDOCLES	Date: 8/4/97 Time: 12:05	Received (signature):	Printed Name: PENAFLOR	Date: 8/4/97 Time: 12:15 PM
Relinquished By (signature):	Printed Name: PENAFLOR	Date: 8/4/97 Time:	Received (signature):	Printed Name:	Date: Time:
Relinquished By (signature):	Printed Name:	Date: Time:	Received (signature):	Printed Name: ABAD	Date: 8/4/97 Time: 1213

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: 9708069/71

Date: 8/1/97
Page of

Site Address: 2160 Otis Street Alameda
WIC#: 204-0072-0502
Shell Engineer: Lisa Maylines
Phone No.: 675-6136
Fax #: 675-6120
Consultant Name & Address: CAMBRIA ENVIRONMENTAL 1144 65th St. Suite C, Oakland, CA 94608
Consultant Contact: Paul Waite
Phone No.: 510 420-0700
Fax #: 420-9170
Comments: Use Attached Protocol !
Sampled by: Maureen Feineman
Printed Name: Maureen Feineman

LAB: Sequoia

CHECK ONE (1) BOX ONLY	C1/D1
G.W. Monitoring	4461
Site Investigation	4441
Soil Classify/Disposal	X 4442
Water Classify/Disposal	4443
Soil/Air Rem. or Sys. O & M	4452
Water Rem. or Sys. O & M	4453
Other	

TURN AROUND TIME
24 hours
48 hours X
16 days (Normal)
Other

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

AUG 4 1 13

UST AGENCY: Alameda

Analysis Required: TPH (EPA 8015 Mod. Gas); TPH (EPA 8015 Mod. Diesel); BTEX (EPA 8020/602); Volatile Organics (EPA 8240); Test for Disposal; Combination TPH 8015 & BTEX 8020; Asbestos; Container Size; Preparation Used; Composite Y/N

Sample ID	Date	Sludge	Soil	Water	Air	No. of conts.	MATERIAL DESCRIPTION	SAMPLE CONDITION/ COMMENTS
SB-G-4.0	8/1/97	1:10pm	1			1		
SB-G-7.5	"	1:10pm	1			1		
SB-G-10.0	"	1:15pm	1			1		
SB-G-12.0	8/1/97	1:30	1			1		
SB-H-4.0	"	1:43	1			1		
SB-H-7.5	"	1:45	1			1		
SB-H-10.0	"	1:53	1			1		
SB-H-12.0	8/1/97	2:00	1			1		

4:1 Composite for CAM Metals

4:1 Composite for CAM Metals

Relinquished By (signature):	Printed Name: CHRISTINA FINEDOLLER	Date: 8/4/97 Time: 12:15PM	Received (signature):	Printed Name: L. PENAFLOR	Date: 8/4/97 Time: 12:15PM		
Relinquished By (signature):	Printed Name: PENAFLOR	Date: 8/4/97 Time:	Received (signature):	Printed Name:	Date: Time:		
Relinquished By (signature):	Printed Name:	Date: Time:	Received (signature):	Printed Name: AMD	Date: 8/4/97 Time: 1517		

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: 97080069/71

Date: 8/1/97
Page of

Site Address: 2160 Otis Street Alameda

WIC#: 204-0072-0502

Shell Engineer: Lisa Maglines — Phone No.: 675-6136 Fax #: 675-6130

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

Consultant Contact: Paul Waite — Phone No.: 510 420-0700 Fax #: 420-9170

Comments: Use Attached Protocol !

Sampled by: Maureen Feineman

Printed Name: Maureen Feineman

LAB: Seqouia

CHECK ONE (1) BOX ONLY	CT/01
G.W. Monitoring	4461
Site Investigation	4441
Soil Classify/Disposal	X 4442
Water Classify/Disposal	4443
Soil/Air Rem. or Sys. O & M	4452
Water Rem. or Sys. O & M	4453
Other	

TURN AROUND TIME: 24 hours; 48 hours X; 16 days (Normal); Other

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

AUG 1 13

UST AGENCY: Alameda

Analysis Required: TPH (EPA 8015 Mod. Gas); TPH (EPA 8015 Mod. Diesel); BTEX (EPA 8020/602); Volatile Organics (EPA 8240); Test for Disposal; Combination TPH 8015 & BTEX 8020; Asbestos; Container Size; Preparation Used; Composite Y/N

Sample ID	Date	Time	Sludge	Soil	Water	Air	No. of conts.	MATERIAL DESCRIPTION	SAMPLE CONDITION/ COMMENTS
SB-A, 15.5'	8/1	8:50		1					
SB-B-15.5'		9:05		1				4:1 Composite for	
SB-C-15.5'		9:45		1				CAM Metals	
SB-D-15.5'		10:20		1					
SB-E-15.5'		11:00		1					
SB-F-15.5'		1:07		1				4:1 Composite for	
SB-G-15.5		1:30		1				CAM Metals	
SB-H-15.5		2:00		1					

	Printed Name	Date / Time	Received (signature)	Printed Name	Date / Time
Relinquished By (signature):	Christina Empedocles	Date: 8/4/97 Time: 12:15 pm		Fedex	Date: 8/4/97 Time: 12:15 PM
Relinquished By (signature):	Fedex	Date: 8/4/97 Time:			Date: Time:
Relinquished By (signature):		Date: Time:		Abad	Date: 8/4/97 Time: 3:13

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

9708069/71

ISSUED DATE: 02/17/95
CANCELS ISSUE: 11/01/92
ISSUED BY: RLG

MATERIAL: CALIFORNIA **UNDERGROUND STORAGE TANK (UST)**
SOIL CONTAMINATED WITH GASOLINE/DIESEL

MINIMUM REQUIRED TESTING

TPH = TOTAL PETROLEUM HYDROCARBONS, DHS GC-FID MOD 8015
GASOLINE OR DIESEL AS REQUIRED.
BTXE = EPA 8020
CAM METALS = TTLC ALL:
STLC ON ALL TTLC METALS 10 X STLC MAXIMUM,
TTLC LEAD =>13 MG/KG REQUIRES ORGANIC ANALYSIS,
EP TOX METALS FOR STLC METALS AT OR ABOVE
STLC REGULATORY LEVEL.

AQUATIC BIOASSAY (FISH TOX) IS ONLY TO BE RUN ON SAMPLES WITH GREATER THAN 5000 PPM TPH. COMPOSITE A MAXIMUM OF 4 SAMPLES.
AQUATIC BIOASSAY (FISH TOX) = PART 800 OF "STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER (15TH. EDITION)"

LABORATORY INSTRUCTIONS (MINIMUM GUIDELINES ONLY)

- 8015/8020 TO BE BILLED AS "COMBO" WITHOUT EXCEPTION
- TPH REQUIRED ON ALL SAMPLES.
- ALL OTHER TESTS REQUIRED TO BE RUN ON COMPOSITE(S). MAX. 4 SAMPLES PER COMPOSITE.
- ORGANIC ANALYSIS REQUIRED FOR TTLC LEAD OF 13 MG/KG OR GREATER.
- STLC REQUIRED FOR METALS WITH TTLC VALUE 10 X STLC MAXIMUM.
- LABORATORY IS TO SUPPLY QA/QC INFORMATION WITH ALL ANALYTICAL REPORTS.
- MAIL OR FAX ALL ANALYSIS TO PERSON REQUESTING ANALYSIS. DO NOT FAX OR MAIL ANALYSES TO RON GEMEINHARDT OR THE WASTE DISPOSAL COORDINATOR UNLESS SPECIFICALLY REQUESTED.
- QUESTIONS REGARDING ANALYSIS CONTACT RON GEMEINHARDT AT (714) 520-3385.

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	Client Proj. ID: Shell 204-0072-0502, Alameda	Received: 08/04/97
1144 65th St. Suite C		
Oakland, CA 94608	Lab Proj. ID: 9708071	Reported: 08/07/97
Attention: Paul Waite		

LABORATORY NARRATIVE

In order to properly interpret this report, it must be reproduced in its entirety. This report contains a total of 64 pages including the laboratory narrative, sample results, quality control, and related documents as required (cover page, COC, raw data, etc.).

SEQUOIA ANALYTICAL

Kevin Follett
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
1144 65th St. Suite C
Oakland, CA 94608
Attention: Paul Walte

Project: Shell 204-0072-0502

Enclosed are the results from samples received at Sequoia Analytical on August 4, 1997. The requested analyses are listed below:

SAMPLE #	SAMPLE DESCRIPTION	DATE COLLECTED	TEST METHOD
9708066 -01	SOLID, WO-1-4.0	08/01/97	TRPH (EPA 418.1M)
9708066 -01	SOLID, WO-1-4.0	08/01/97	TPHGBS Purgeable TPH/BTEX
9708066 -02	SOLID, WO-1-7.5	08/01/97	TRPH (EPA 418.1M)
9708066 -02	SOLID, WO-1-7.5	08/01/97	TPHGBS Purgeable TPH/BTEX
9708066 -03	SOLID, WO-1-10.0	08/01/97	TRPH (EPA 418.1M)
9708066 -03	SOLID, WO-1-10.0	08/01/97	TPHGBS Purgeable TPH/BTEX
9708066 -04	SOLID, WO-1-12.0	08/01/97	TRPH (EPA 418.1M)
9708066 -04	SOLID, WO-1-12.0	08/01/97	TPHGBS Purgeable TPH/BTEX
9708066 -05	SOLID, WO-1-(4,7.5,10,12) Comp	08/01/97	Cyanide: Reactive
9708066 -05	SOLID, WO-1-(4,7.5,10,12) Comp	08/01/97	ITTLCS Title 22: Metals, T
9708066 -05	SOLID, WO-1-(4,7.5,10,12) Comp	08/01/97	PCB_S Polychlorinated Biph
9708066 -05	SOLID, WO-1-(4,7.5,10,12) Comp	08/01/97	pH
9708066 -05	SOLID, WO-1-(4,7.5,10,12) Comp	08/01/97	Sulfide: Reactive
9708066 -05	SOLID, WO-1-(4,7.5,10,12) Comp	08/01/97	TCLPMS Metals - Solid
9708066 -05	SOLID, WO-1-(4,7.5,10,12) Comp	08/01/97	TCLPSS SemiVolatile
9708066 -05	SOLID, WO-1-(4,7.5,10,12) Comp	08/01/97	TCLPVS Volatiles
9708066 -06	SOLID, WO-1-15.5	08/01/97	TRPH (EPA 418.1M)
9708066 -06	SOLID, WO-1-15.5	08/01/97	TPHGBS Purgeable TPH/BTEX
9708066 -07	SOLID, WO-1-17.0	08/01/97	TRPH (EPA 418.1M)
9708066 -07	SOLID, WO-1-17.0	08/01/97	TPHGBS Purgeable TPH/BTEX
9708066 -08	SOLID, WO-1-18.0	08/01/97	TRPH (EPA 418.1M)

SEQUOIA ANALYTICAL

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

SAMPLE #	SAMPLE DESCRIPTION	DATE COLLECTED	TEST METHOD
9708066 -08	SOLID, WO-1-18.0	08/01/97	TPHGBS Purgeable TPH/BTEX
9708066 -09	SOLID, WO-1-(15.5,17,18) Comp	08/01/97	Cyanide: Reactive
9708066 -09	SOLID, WO-1-(15.5,17,18) Comp	08/01/97	ITTLCS Title 22: Metals, T
9708066 -09	SOLID, WO-1-(15.5,17,18) Comp	08/01/97	PCB_S Polychlorinated Biph
9708066 -09	SOLID, WO-1-(15.5,17,18) Comp	08/01/97	pH
9708066 -09	SOLID, WO-1-(15.5,17,18) Comp	08/01/97	Sulfide: Reactive
9708066 -09	SOLID, WO-1-(15.5,17,18) Comp	08/01/97	TCLPMS Metals - Solid
9708066 -09	SOLID, WO-1-(15.5,17,18) Comp	08/01/97	TCLPSS SemiVolatile
9708066 -09	SOLID, WO-1-(15.5,17,18) Comp	08/01/97	TCLPVS Volatiles

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

Kevin Follett
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
1144 65th St. Suite C
Oakland, CA 94608

Attention: Paul Waite

Client Proj. ID: Shell 204-0072-0502

Lab Proj. ID: 9708066

Sampled: 08/01/97
Received: 08/04/97
Analyzed: see below

Reported: 08/08/97

LABORATORY ANALYSIS

Analyte	Units	Date Analyzed	Detection Limit	Sample Results
Lab No: 9708066-01				
Sample Desc : **SOLID,WO-1-4.0**				
TRPH (EPA 418.1M)	**mg/Kg**	**08/05/97**	**75**	**650**
Lab No: 9708066-02				
Sample Desc : **SOLID,WO-1-7.5**				
TRPH (EPA 418.1M)	**mg/Kg**	**08/05/97**	**15**	**26**
Lab No: 9708066-03				
Sample Desc : **SOLID,WO-1-10.0**				
TRPH (EPA 418.1M)	**mg/Kg**	**08/05/97**	**15**	**26**
Lab No: 9708066-04				
Sample Desc : **SOLID,WO-1-12.0**				
TRPH (EPA 418.1M)	**mg/Kg**	**08/05/97**	**15**	**33**
Lab No: 9708066-05				
Sample Desc : **SOLID,WO-1-(4,7.5,10,12) Comp**				
Cyanide: Reactive	mg/Kg	08/06/97	0.50	N.D.
pH	**pH Units**	**08/05/97**	**N/A**	**9.2**
Sulfide: Reactive	mg/Kg	08/05/97	13	N.D.
Lab No: 9708066-06				
Sample Desc : **SOLID,WO-1-15.5**				
TRPH (EPA 418.1M)	**mg/Kg**	**08/05/97**	**30**	**72**

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

SEQUOIA ANALYTICAL - ELAP #1210

Kevin Follett
Project Manager

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

Attention: Paul Waite

Client Proj. ID: Shell 204-0072-0502

Lab Proj. ID: 9708066

Sampled: 08/01/97
Received: 08/04/97
Analyzed: see below

Reported: 08/08/97

LABORATORY ANALYSIS

Analyte	Units	Date Analyzed	Detection Limit	Sample Results
Lab No: 9708066-07				
Sample Desc : **SOLID,WO-1-17.0**				
TRPH (EPA 418.1M)	**mg/Kg**	**08/05/97**	**15**	**35**
Lab No: 9708066-08				
Sample Desc : **SOLID,WO-1-18.0**				
TRPH (EPA 418.1M)	**mg/Kg**	**08/05/97**	**15**	**37**
Lab No: 9708066-09				
Sample Desc : **SOLID,WO-1-(15.5,17,18) Comp**				
Cyanide: Reactive	mg/Kg	08/06/97	0.50	N.D.
pH	**pH Units**	**08/05/97**	**N/A**	**9.8**
Sulfide: Reactive	mg/Kg	08/05/97	13	N.D.

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

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Cambria	Client Proj. ID: Shell 204-0072-0502	Sampled: 08/01/97
1144 65th St. Suite C	Sample Descript: WO-1-4.0	Received: 08/04/97
Oakland, CA 94608	Matrix: SOLID	Extracted: 08/05/97
	Analysis Method: 8015Mod/8020	Analyzed: 08/05/97
Attention: Paul Waite	Lab Number: 9708066-01	Reported: 08/08/97

QC Batch Number: GC080597BTEXEXA
Instrument ID: GCHP07

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	1.0	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	83
4-Bromofluorobenzene	60	140	74

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

SEQUOIA ANALYTICAL - ELAP #1210

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Cambria	Client Proj. ID: Shell 204-0072-0502	Sampled: 08/01/97
1144 65th St. Suite C	Sample Descript: WO-1-7.5	Received: 08/04/97
Oakland, CA 94608	Matrix: SOLID	Extracted: 08/05/97
	Analysis Method: 8015Mod/8020	Analyzed: 08/05/97
Attention: Paul Waite	Lab Number: 9708066-02	Reported: 08/08/97

QC Batch Number: GC080597BTEXEXA
Instrument ID: GCHP07

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	1.0	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	84
4-Bromofluorobenzene	60	140	71

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

SEQUOIA ANALYTICAL - ELAP #1210

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Cambria	Client Proj. ID: Shell 204-0072-0502	Sampled: 08/01/97
1144 65th St. Suite C	Sample Descript: WO-1-10.0	Received: 08/04/97
Oakland, CA 94608	Matrix: SOLID	Extracted: 08/05/97
	Analysis Method: 8015Mod/8020	Analyzed: 08/05/97
Attention: Paul Waite	Lab Number: 9708066-03	Reported: 08/08/97

QC Batch Number: GC080597BTEXEXA
Instrument ID: GCHP07

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	1.0	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	83
4-Bromofluorobenzene	60	140	83

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

SEQUOIA ANALYTICAL - ELAP #1210

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Cambria	Client Proj. ID: Shell 204-0072-0502	Sampled: 08/01/97
1144 65th St. Suite C	Sample Descript: WO-1-12.0	Received: 08/04/97
Oakland, CA 94608	Matrix: SOLID	Extracted: 08/05/97
	Analysis Method: 8015Mod/8020	Analyzed: 08/05/97
Attention: Paul Walte	Lab Number: 9708066-04	Reported: 08/08/97

QC Batch Number: GC080597BTEXEXA
Instrument ID: GCHP07

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	1.0	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	74
4-Bromofluorobenzene	60	140	76

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

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Cambria	Client Proj. ID: Shell 204-0072-0502	Sampled: 08/01/97
1144 65th St. Suite C	Sample Descript: WO-1-(4,7.5,10,12) Comp	Received: 08/04/97
Oakland, CA 94608	Matrix: SOLID	Extracted: 08/05/97
	Analysis Method: Title 22	Analyzed: 08/05/97
Attention: Paul Waite	Lab Number: 9708066-05	Reported: 08/08/97

QC Batch Number: ME0805976010MDE

Inorganic Persistent and Bioaccumulative Toxic Substances : TTLC

Analyte	Max. Limit mg/Kg	Detection Limit mg/Kg	Sample Results mg/Kg
Antimony, Sb	500	5.0	N.D.
Arsenic, As	500	5.0	N.D.
Barium, Ba	**10000**	**5.0**	**38**
Beryllium, Be	75	0.50	N.D.
Cadmium, Cd	100	0.50	N.D.
Chromium, Cr	**2500**	**0.50**	**25**
Cobalt, Co	**8000**	**2.5**	**4.3**
Copper, Cu	**2500**	**0.50**	**5.3**
Lead, Pb	1000	5.0	N.D.
Mercury, Hg	20	0.020	N.D.
Molybdenum, Mo	3500	2.5	N.D.
Nickel, Ni	**2000**	**2.5**	**21**
Selenium, Se	100	5.0	N.D.
Silver, Ag	500	0.50	N.D.
Thallium, Tl	700	5.0	N.D.
Vanadium, V	**2400**	**2.5**	**18**
Zinc, Zn	**5000**	**0.50**	**15**

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

SEQUOIA ANALYTICAL - ELAP #1210

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Cambria	Client Proj. ID: Shell 204-0072-0502	Sampled: 08/01/97
1144 65th St. Suite C	Sample Descript: WO-1-(4,7.5,10,12) Comp	Received: 08/04/97
Oakland, CA 94608	Matrix: SOLID	Extracted: 08/05/97
	Analysis Method: EPA 8080	Analyzed: 08/06/97
Attention: Paul Waite	Lab Number: 9708066-05	Reported: 08/08/97

QC Batch Number: GC0730970PCBEXA
Instrument ID: GCHP12A

Polychlorinated Biphenyls (EPA 8080)

Analyte	Detection Limit ug/Kg	Sample Results ug/Kg
PCB-1016	20	N.D.
PCB-1221	80	N.D.
PCB-1232	20	N.D.
PCB-1242	20	N.D.
PCB-1248	20	N.D.
PCB-1254	20	N.D.
PCB-1260	20	N.D.

Surrogates	Control Limits %		% Recovery
Dibutylchlorendate	30	150	55
Tetrachloro-m-xylene	30	150	147

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

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Cambria	Client Proj. ID: Shell 204-0072-0502	Sampled: 08/01/97
1144 65th St. Suite C	Sample Descript: WO-1-(4,7.5,10,12) Comp	Received: 08/04/97
Oakland, CA 94608	Matrix: SOLID	Extracted: 08/07/97
	Analysis Method: EPA6010/7470	Analyzed: 08/07/97
Attention: Paul Waite	Lab Number: 9708066-05	Reported: 08/08/97

QC Batch Number: ME0807976010MDA

TCLP Metals

Analyte	Max. Limit mg/L	Detection Limit mg/L	Sample Results mg/L
Arsenic, As	5.0	0.10	N.D.
Barium,Ba	**100**	**0.10**	**0.56**
Cadmium, Cd	1.0	0.010	N.D.
Chromium, Cr	5.0	0.010	N.D.
Lead, Pb	5.0	0.10	N.D.
Mercury,Hg	0.2	0.00020	N.D.
Selenium, Se	1.0	0.10	N.D.
Silver, Ag	5.0	0.010	N.D.

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

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Cambria	Client Proj. ID: Shell 204-0072-0502	Sampled: 08/01/97
1144 65th St. Suite C	Sample Descript: WO-1-(4,7.5,10,12) Comp	Received: 08/04/97
Oakland, CA 94608	Matrix: SOLID	Extracted: 08/06/97
	Analysis Method: EPA 8270	Analyzed: 08/06/97
Attention: Paul Waite	Lab Number: 9708066-05	Reported: 08/08/97

QC Batch Number: MS0806978270EXA
Instrument ID: F4

TCLP Semivolatiles (EPA 8270)

Analyte	Max. Limit mg/L	Detection Limit mg/L	Sample Results mg/L
Total Cresol	200	0.0080	N.D.
1,4-Dichlorobenzene	7.5	0.0080	N.D.
2,4-Dinitrotoluene	0.13	0.0080	N.D.
Hexachlorobenzene	0.13	0.0080	N.D.
Hexachloro-1,3-butadiene	0.5	0.0080	N.D.
Hexachloroethane	3.0	0.0080	N.D.
Nitrobenzene	2.0	0.0080	N.D.
Pentachlorophenol	100	0.040	N.D.
Pyridine	5.0	0.040	N.D.
2,4,5-Trichlorophenol	400	0.040	N.D.
2,4,6-Trichlorophenol	2.0	0.0080	N.D.

Surrogates	Control Limits %		% Recovery
2-Fluorophenol	21	110	66
Phenol-d6	10	110	67
Nitrobenzene-d5	35	114	64
2-Fluorobiphenyl	43	116	73
2,4,6-Tribromophenol	10	123	70

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

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Cambria	Client Proj. ID: Shell 204-0072-0502	Sampled: 08/01/97
1144 65th St. Suite C	Sample Descript: WO-1-(4,7.5,10,12) Comp	Received: 08/04/97
Oakland, CA 94608	Matrix: SOLID	Extracted: 08/04/97
	Analysis Method: EPA 8240	Analyzed: 08/05/97
Attention: Paul Waite	Lab Number: 9708066-05	Reported: 08/08/97

QC Batch Number: MS0805978240F3A
Instrument ID: F3

TCLP Volatiles (EPA 8240)

Analyte	Max. Limit mg/L	Detection Limit mg/L	Sample Results mg/L
Benzene	0.5	0.020	N.D.
Carbon tetrachloride	0.5	0.020	N.D.
Chlorobenzene	100	0.020	N.D.
Chloroform	6.0	0.020	N.D.
1,2-Dichloroethane	0.5	0.020	N.D.
1,1-Dichloroethylene	0.7	0.020	N.D.
Methyl ethyl ketone	200	0.10	N.D.
Tetrachloroethylene	0.7	0.020	N.D.
Trichloroethylene	0.5	0.020	N.D.
Vinyl chloride	0.2	0.020	N.D.

Surrogates	Control Limits %		% Recovery
1,2-Dichloroethane-d4	76	114	96
Toluene-d8	88	110	102
4-Bromofluorobenzene	86	115	96

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

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Cambria	Client Proj. ID: Shell 204-0072-0502	Sampled: 08/01/97
1144 65th St. Suite C	Sample Descript: WO-1-15.5	Received: 08/04/97
Oakland, CA 94608	Matrix: SOLID	Extracted: 08/05/97
	Analysis Method: 8015Mod/8020	Analyzed: 08/06/97
Attention: Paul Waite	Lab Number: 9708066-06	Reported: 08/08/97

QC Batch Number: GC080597BTEXEXA
Instrument ID: GCHP18

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	1.0	4.3
Benzene	0.0050	0.0095
Toluene	0.0050	0.026
Ethyl Benzene	0.0050	0.12
Xylenes (Total)	0.0050	0.54
Chromatogram Pattern:		C6-C12

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	114
4-Bromofluorobenzene	60	140	94

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

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Cambria	Client Proj. ID: Shell 204-0072-0502	Sampled: 08/01/97
1144 65th St. Suite C	Sample Descript: WO-1-17.0	Received: 08/04/97
Oakland, CA 94608	Matrix: SOLID	Extracted: 08/05/97
	Analysis Method: 8015Mod/8020	Analyzed: 08/06/97
Attention: Paul Waite	Lab Number: 9708066-07	Reported: 08/08/97

QC Batch Number: GC080597BTEXEXA
Instrument ID: GCHP18

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	1.0	N.D.
Benzene	0.0050	N.D.
Toluene	0.0050	N.D.
Ethyl Benzene	**0.0050**	**0.0098**
Xylenes (Total)	**0.0050**	**0.018**
Chromatogram Pattern:		

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	98
4-Bromofluorobenzene	60	140	94

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

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Cambria	Client Proj. ID: Shell 204-0072-0502	Sampled: 08/01/97
1144 65th St. Suite C	Sample Descript: WO-1-18.0	Received: 08/04/97
Oakland, CA 94608	Matrix: SOLID	Extracted: 08/05/97
	Analysis Method: 8015Mod/8020	Analyzed: 08/06/97
Attention: Paul Waite	Lab Number: 9708066-08	Reported: 08/08/97

QC Batch Number: GC080597BTEXEXA
Instrument ID: GCHP18

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	1.0	N.D.
Benzene	0.0050	N.D.
Toluene	0.0050	N.D.
Ethyl Benzene	**0.0050**	**0.0077**
Xylenes (Total)	**0.0050**	**0.015**
Chromatogram Pattern:		

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	92
4-Bromofluorobenzene	60	140	87

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

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Cambria	Client Proj. ID: Shell 204-0072-0502	Sampled: 08/01/97
1144 65th St. Suite C	Sample Descript: WO-1-(15.5,17,18) Comp	Received: 08/04/97
Oakland, CA 94608	Matrix: SOLID	Extracted: 08/05/97
	Analysis Method: Title 22	Analyzed: 08/05/97
Attention: Paul Waite	Lab Number: 9708066-09	Reported: 08/08/97

QC Batch Number: ME0805976010MDE

Inorganic Persistent and Bioaccumulative Toxic Substances : TTLC

Analyte	Max. Limit mg/Kg	Detection Limit mg/Kg	Sample Results mg/Kg
Antimony, Sb	500	5.0	N.D.
Arsenic, As	500	5.0	N.D.
Barium, Ba	**10000**	**5.0**	**18**
Beryllium, Be	75	0.50	N.D.
Cadmium, Cd	100	0.50	N.D.
Chromium, Cr	**2500**	**0.50**	**22**
Cobalt, Co	**8000**	**2.5**	**3.8**
Copper, Cu	**2500**	**0.50**	**4.5**
Lead, Pb	1000	5.0	N.D.
Mercury, Hg	20	0.020	N.D.
Molybdenum, Mo	3500	2.5	N.D.
Nickel, Ni	**2000**	**2.5**	**18**
Selenium, Se	100	5.0	N.D.
Silver, Ag	500	0.50	N.D.
Thallium, Tl	700	5.0	N.D.
Vanadium, V	**2400**	**2.5**	**16**
Zinc, Zn	**5000**	**0.50**	**17**

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

SEQUOIA ANALYTICAL - ELAP #1210

Kevin Follett
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Cambria	Client Proj. ID: Shell 204-0072-0502	Sampled: 08/01/97
1144 65th St. Suite C	Sample Descript: WO-1-(15.5,17,18) Comp	Received: 08/04/97
Oakland, CA 94608	Matrix: SOLID	Extracted: 08/05/97
	Analysis Method: EPA 8080	Analyzed: 08/06/97
Attention: Paul Waite	Lab Number: 9708066-09	Reported: 08/08/97

QC Batch Number: GC0730970PCBEXA
Instrument ID: GCHP12A

Polychlorinated Biphenyls (EPA 8080)

Analyte	Detection Limit ug/Kg	Sample Results ug/Kg
PCB-1016	20	N.D.
PCB-1221	80	N.D.
PCB-1232	20	N.D.
PCB-1242	20	N.D.
PCB-1248	20	N.D.
PCB-1254	20	N.D.
PCB-1260	20	N.D.

Surrogates	Control Limits %		% Recovery
Dibutylchlorendate	30	150	52
Tetrachloro-m-xylene	30	150	116

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

SEQUOIA ANALYTICAL - ELAP #1210

Kevin Follett
Project Manager

Sequoia Analytical

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819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Cambria	Client Proj. ID: Shell 204-0072-0502	Sampled: 08/01/97
1144 65th St. Suite C	Sample Descript: WO-1-(15.5,17,18) Comp	Received: 08/04/97
Oakland, CA 94608	Matrix: SOLID	Extracted: 08/07/97
	Analysis Method: EPA6010/7470	Analyzed: 08/15/97
Attention: Paul Walte	Lab Number: 9708066-09	Reported: 08/08/97

QC Batch Number: ME0807976010MDA

TCLP Metals

Analyte	Max. Limit mg/L	Detection Limit mg/L	Sample Results mg/L
Arsenic, As	**5.0**	**0.10**	**0.12**
Barium,Ba	**100**	**0.10**	**0.31**
Cadmium, Cd	1.0	0.010	N.D.
Chromium, Cr	5.0	0.010	N.D.
Lead, Pb	5.0	0.10	N.D.
Mercury,Hg	0.2	0.00020	N.D.
Selenium, Se	1.0	0.10	N.D.
Silver, Ag	**5.0**	**0.010**	**2.3**

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

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Cambria	Client Proj. ID: Shell 204-0072-0502	Sampled: 08/01/97
1144 65th St. Suite C	Sample Descript: WO-1-(15.5,17,18) Comp	Received: 08/04/97
Oakland, CA 94608	Matrix: SOLID	Extracted: 08/06/97
	Analysis Method: EPA 8270	Analyzed: 08/06/97
Attention: Paul Waite	Lab Number: 9708066-09	Reported: 08/08/97

QC Batch Number: MS0806978270EXA
Instrument ID: F4

TCLP Semivolatiles (EPA 8270)

Analyte	Max. Limit mg/L	Detection Limit mg/L	Sample Results mg/L
Total Cresol	200	0.0080	N.D.
1,4-Dichlorobenzene	7.5	0.0080	N.D.
2,4-Dinitrotoluene	0.13	0.0080	N.D.
Hexachlorobenzene	0.13	0.0080	N.D.
Hexachloro-1,3-butadiene	0.5	0.0080	N.D.
Hexachloroethane	3.0	0.0080	N.D.
Nitrobenzene	2.0	0.0080	N.D.
Pentachlorophenol	100	0.040	N.D.
Pyridine	5.0	0.040	N.D.
2,4,5-Trichlorophenol	400	0.040	N.D.
2,4,6-Trichlorophenol	2.0	0.0080	N.D.

Surrogates	Control Limits %		% Recovery
2-Fluorophenol	21	110	60
Phenol-d6	10	110	55
Nitrobenzene-d5	35	114	62
2-Fluorobiphenyl	43	116	73
2,4,6-Tribromophenol	10	123	73

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

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Cambria	Client Proj. ID: Shell 204-0072-0502	Sampled: 08/01/97
1144 65th St. Suite C	Sample Descript: WO-1-(15.5,17,18) Comp	Received: 08/04/97
Oakland, CA 94608	Matrix: SOLID	Extracted: 08/05/97
	Analysis Method: EPA 8240	Analyzed: 08/06/97
Attention: Paul Waite	Lab Number: 9708066-09	Reported: 08/08/97

QC Batch Number: MS0805978240F3A
Instrument ID: F3

TCLP Volatiles (EPA 8240)

Analyte	Max. Limit mg/L	Detection Limit mg/L	Sample Results mg/L
Benzene	0.5	0.020	N.D.
Carbon tetrachloride	0.5	0.020	N.D.
Chlorobenzene	100	0.020	N.D.
Chloroform	6.0	0.020	N.D.
1,2-Dichloroethane	0.5	0.020	N.D.
1,1-Dichloroethylene	0.7	0.020	N.D.
Methyl ethyl ketone	200	0.10	N.D.
Tetrachloroethylene	0.7	0.020	N.D.
Trichloroethylene	0.5	0.020	N.D.
Vinyl chloride	0.2	0.020	N.D.

Surrogates	Control Limits %		% Recovery
1,2-Dichloroethane-d4	76	114	105
Toluene-d8	88	110	102
4-Bromofluorobenzene	86	115	98

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

SEQUOIA ANALYTICAL - ELAP #1210

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Cambria Environmental Tech.	Client Project ID: Shell, Alameda	Sampled: 8/1/97
1144 65th St., Ste. C	Sample Descript: WO-1-(4, 7.5, 10, 12)	Received: 8/4/97
Oakland, CA 94608	Analysis Method: See below	
Attention: Paul Waite	Lab Number: 9708-066 05	Reported: 8/13/97

STATIC ACUTE HAZARDOUS WASTE BIOASSAY - DEFINITIVE

Species: Pimephales promelas
Common Name: Fathead Minnow

Mean length: 41 mm
Min. length: 37 mm
Max. length: 45 mm
Mean weight: 0.43 g
Min. weight: 0.32 g
Max. weight: 0.58 g

Organisms/Tank: 10
Organisms/Conc.: 20
Tank Depth: 13 cm
Tank Volume: 10 L
Supplier: Sticklebacks Unlimited
Acclimation Temp.: 20 ± 1 °C

Control Water: Synthetic Softwater
Hardness 40-48

	Alkalinity, mg/L		Hardness, mg/L	
	Initial	Final	Initial	Final
Control	18	44	46	56
1000 ppm	80	80	140	160
Duplicate 1000 ppm	80	80	120	340

	Initial	24 Hr	48 Hr	72 Hr	96 Hr
DATE	8/5/97	8/6/97	8/7/97	8/8/97	8/9/97

	DO mg/L	C Temp	pH Units	DO mg/L	C Temp	pH Units	# M Dead	DO mg/L	C Temp	pH Units	# M Dead	DO mg/L	C Temp	pH Units	# M Dead	DO mg/L	C Temp	pH Units	# M Dead	Total Dead
Control	8.6	20	7.6	5.8	21	7.3	0	4.6	21	6.9	0	4.4	21	7.0	0	6.3	20	7.4	0	0
1000 ppm	8.5	20	7.8	5.7	21	7.3	0	4.6	21	7.1	0	4.4	21	7.1	0	4.7	20	7.2	0	0
560 ppm	8.5	20	7.8	5.7	21	7.3	0	4.2	21	7.1	0	7.3	21	7.1	0	7.2	20	7.4	0	0
320 ppm	8.5	20	7.8	6.0	21	7.3	0	4.7	21	7.1	0	4.8	21	7.0	0	4.8	20	7.2	0	0
180 ppm	8.6	20	7.7	6.2	21	7.3	0	5.3	21	7.1	0	5.5	21	7.0	0	5.3	20	7.3	0	0
100 ppm	8.7	20	7.7	6.1	21	7.3	0	4.8	21	7.0	0	5.1	21	7.0	0	5.3	20	7.3	0	0

Duplicate	DO mg/L	C Temp	pH Units	DO mg/L	C Temp	pH Units	# M Dead	DO mg/L	C Temp	pH Units	# M Dead	DO mg/L	C Temp	pH Units	# M Dead	DO mg/L	C Temp	pH Units	# M Dead	Total Dead
1000 ppm	8.5	20	7.9	5.9	21	7.3	0	4.6	21	7.1	0	4.8	21	7.1	0	6.6	20	7.2	0	0
560 ppm	8.5	20	7.8	5.7	21	7.3	0	4.1	21	7.1	0	7.0	21	7.1	0	7.0	20	7.4	0	0
320 ppm	8.5	20	7.8	5.8	21	7.3	1	4.8	21	7.1	0	4.4	21	7.0	0	6.0	20	7.2	0	1
180 ppm	8.6	20	7.7	6.1	21	7.3	0	5.0	21	7.1	0	5.3	21	7.0	0	5.5	20	7.3	0	0
100 ppm	8.7	20	7.7	6.0	21	7.3	0	4.3	21	7.0	0	5.9	21	7.0	0	6.2	20	7.3	0	0

LC-50: > 1000 ppm

LC-50 Calculation Method: Binomial

Remarks:

Analyst: M. Barlow

Method Reference: Static Acute Bioassay Procedures for Hazardous Waste Samples, November 1988, California Department of Fish and Game WPCL.

SEQUOIA ANALYTICAL

Kevin Follett
Project Manager

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Cambria Environmental Tech.	Client Project ID: Shell, Alameda	Sampled: 8/1/97
1144 65th St., Ste. C	Sample Descript: WO-1-(15.5, 17, 18)	Received: 8/4/97
Oakland, CA 94608	Analysis Method: See below	
Attention: Paul Waite	Lab Number: 9708-066 09	Reported: 8/13/97

STATIC ACUTE HAZARDOUS WASTE BIOASSAY - DEFINITIVE

Species: Pimephales promelas
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Tank Volume: 10 L
Supplier: Sticklebacks Unlimited
Acclimation Temp.: 20 ± 1 °C

Control Water: Synthetic Softwater
Hardness 40-48

	Alkalinity, mg/L		Hardness, mg/L	
	Initial	Final	Initial	Final
Control	18	44	46	56
1000 ppm	80	60	160	240
Duplicate 1000 ppm	60	60	160	240

	Initial	24 Hr	48 Hr	72 Hr	96 Hr
DATE	8/5/97	8/6/97	8/7/97	8/8/97	8/9/

	DO	C	pH	DO	C	pH	# M	DO	C	pH	# M	DO	C	pH	# M	DO	C	pH	# M	Total
	mg/L	Temp	Units	mg/L	Temp	Units	Dead	mg/L	Temp	Units	Dead	mg/L	Temp	Units	Dead	mg/L	Temp	Units	Dead	Dead
Control	8.6	20	7.6	5.8	21	73	0	4.6	21	6.9	0	4.4	20	7.0	0	6.3	20	7.4	0	0
1000 ppm	8.6	20	7.8	5.5	21	73	0	4.3	21	7.1	0	6.1	20	7.0	0	7.0	20	7.3	0	0
560 ppm	8.8	20	7.8	6.4	21	73	0	5.3	21	7.1	0	5.7	20	7.0	0	5.2	20	7.2	0	0
320 ppm	8.5	20	7.8	6.2	21	73	0	5.1	21	7.1	0	5.3	20	7.0	0	5.0	20	7.2	0	0
180 ppm	8.6	20	7.8	6.5	21	73	0	5.7	21	7.1	0	5.7	20	7.0	0	5.8	20	7.2	0	0
100 ppm	8.7	20	7.8	6.2	21	73	0	5.1	21	7.0	0	5.4	20	7.0	0	5.0	20	7.2	0	0

Duplicate	DO	C	pH	DO	C	pH	# M	DO	C	pH	# M	DO	C	pH	# M	DO	C	pH	# M	Total
	mg/L	Temp	Units	mg/L	Temp	Units	Dead	mg/L	Temp	Units	Dead	mg/L	Temp	Units	Dead	mg/L	Temp	Units	Dead	Dead
1000 ppm	8.8	20	7.8	6.5	21	7.3	0	5.3	21	7.1	0	5.2	20	7.0	0	5.1	20	7.3	0	0
560 ppm	8.6	20	7.8	6.5	21	7.3	0	5.2	21	7.1	0	5.2	20	7.0	0	5.4	20	7.2	0	0
320 ppm	8.5	20	7.8	5.9	21	7.3	0	4.2	21	7.0	0	7.1	20	7.0	0	7.2	20	7.2	0	0
180 ppm	8.7	20	7.8	6.0	21	7.3	0	4.6	21	7.0	0	4.3	20	7.0	0	7.3	20	7.2	0	0
100 ppm	8.6	20	7.8	6.3	21	7.3	0	5.2	21	7.0	0	5.5	20	7.0	0	4.8	20	7.2	0	0

LC-50: > 1000 ppm

LC-50 Calculation Method: Binomial

Remarks:

Analyst: M. Barlow

Method Reference: Static Acute Bioassay Procedures for Hazardous Waste Samples, November 1988, California Department of Fish and Game WPCL.

SEQUOIA ANALYTICAL

Kevin Follett
Project Manager

Sequoia Analytical

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

Client Project ID: Shell 204-0072-0502
Matrix: Solid
Work Order #: 9708066 01-08
Reported: Aug 13, 1997

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes	Gas
QC Batch#:	GC080597BTEXEXA	GC080597BTEXEXA	GC080597BTEXEXA	GC080597BTEXEXA	GC080597BTEXEXA
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. Porter	A. Porter	A. Porter	A. Porter	A. Porter
MS/MSD #:	970806603	970806603	970806603	970806603	970806603
Sample Conc.:	N.D.	N.D.	N.D.	N.D.	N.D.
Prepared Date:	8/5/97	8/5/97	8/5/97	8/5/97	8/5/97
Analyzed Date:	8/5/97	8/5/97	8/5/97	8/5/97	8/5/97
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:	0.17	0.18	0.18	0.56	1.2
MS % Recovery:	85	90	90	93	100
Dup. Result:	0.17	0.17	0.17	0.53	1.2
MSD % Recov.:	85	85	85	88	100
RPD:	0.0	5.7	5.7	5.5	0.0
RPD Limit:	0-25	0-25	0-25	0-25	0-25
LCS #:	BLK080597	BLK080597	BLK080597	BLK080597	BLK080597
Prepared Date:	8/5/97	8/5/97	8/5/97	8/5/97	8/5/97
Analyzed Date:	8/5/97	8/5/97	8/5/97	8/5/97	8/5/97
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:	0.19	0.19	0.20	0.60	1.3
LCS % Recov.:	95	95	100	100	108
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					

SEQUOIA ANALYTICAL

Kevin Follett
Project Manager

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

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

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

Client Project ID: Shell 204-0072-0502
Matrix: Solid
Work Order #: 9708066 05, 09

Reported: Aug 13, 1997

QUALITY CONTROL DATA REPORT

Analyte:	PCB 1260
QC Batch#:	GC0730970PCBEXA
Analy. Method:	EPA 8080
Prep. Method:	EPA 3550
Analyst:	M. Mistry
MS/MSD #:	BLK073097
Sample Conc.:	N.D.
Prepared Date:	7/30/97
Analyzed Date:	7/30/97
Instrument I.D.#:	GCHP12A
Conc. Spiked:	83 µg/Kg
Result:	73
MS % Recovery:	88
Dup. Result:	95
MSD % Recov.:	114
RPD:	26
RPD Limit:	0-50

LCS #:	BLK080597
Prepared Date:	8/5/97
Analyzed Date:	8/6/97
Instrument I.D.#:	GCHP12A
Conc. Spiked:	83 µg/Kg
LCS Result:	89
LCS % Recov.:	107

MS/MSD LCS Control Limits	40-140

SEQUOIA ANALYTICAL

Kevin Follett
Project Manager

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

Client Project ID: Shell 204-0072-0502
Matrix: Solid
Work Order #: 9708066 05, 09

Reported: Aug 13, 1997

QUALITY CONTROL DATA REPORT

Analyte:	pH
QC Batch:	IN080597904500A
Analy. Method:	EPA 9045
Prep Method:	N.A.

Analyst:	J. Saadeh
Duplicate Sample #:	970806609
Prepared Date:	8/5/97
Analyzed Date:	8/5/97
Instrument I.D.#:	MANUAL
Sample *Concentration*:	9.8
Dup. Sample Concentration:	9.8
RPD:	0.0
RPD Limit:	0-20

SEQUOIA ANALYTICAL

MTClark for

Kevin Follett
Project Manager

** RPD= Relative % Difference

Sequoia Analytical

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

Client Project ID: Shell 204-0072-0502
Matrix: Solid
Work Order #: 9708066 01-04, 06-08
Reported: Aug 13, 1997

QUALITY CONTROL DATA REPORT

Analyte:	Total Petroleum Hydrocarbons
QC Batch#:	IN080597418100A
Analy. Method:	EPA 418.1
Prep. Method:	N.A.

Analyst:	Saadeh/Fong
MS/MSD #:	BLK080597
Sample Conc.:	27
Prepared Date:	8/5/97
Analyzed Date:	8/5/97
Instrument I.D.#:	FTIR1
Conc. Spiked:	210 mg/Kg
Result:	220
MS % Recovery:	105
Dup. Result:	220
MSD % Recov.:	105
RPD:	0.0
RPD Limit:	0-30

LCS #:	
Prepared Date:	
Analyzed Date:	
Instrument I.D.#:	
Conc. Spiked:	
LCS Result:	
LCS % Recov.:	

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

SEQUOIA ANALYTICAL

MT Clark for
Kevin Follett
Project Manager

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

Client Project ID: Shell 204-0072-0502
Matrix: Solid
Work Order #: 9708066 05, 09

Reported: Aug 13, 1997

QUALITY CONTROL DATA REPORT

Analyte:	Reactive Cyanide	Reactive Sulfide
QC Batch#:	IN080597084600A	IN080597084600A
Analy. Method:	SW-846	SW-846
Prep. Method:	N.A.	N.A.
Analyst:	K. Sims	K. Sims
MS/MSD #:	970806605	970806605
Sample Conc.:	N.D.	N.D.
Prepared Date:	8/5/97	8/5/97
Analyzed Date:	8/6/97	8/6/97
Instrument I.D.#:	MANUAL	MANUAL
Conc. Spiked:	0.20 mg/Kg	25 mg/Kg
Result:	0.059	25
MS % Recovery:	30	100
Dup. Result:	0.051	28
MSD % Recov.:	26	88
RPD:	15	13
RPD Limit:	0-50	0-30

LCS #:	IN091896	IN072597
Prepared Date:	7/25/97	7/25/97
Analyzed Date:	8/6/97	8/5/97
Instrument I.D.#:	MANUAL	MANUAL
Conc. Spiked:	0.20 mg/Kg	25 mg/Kg
LCS Result:	0.063	20
LCS % Recov.:	32	80

MS/MSD	6.0-40	60-140
LCS	6.0-40	70-130
Control Limits		

SEQUOIA ANALYTICAL

Kevin Follett
Project Manager

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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.
1144 65th St., Ste. C
Oakland, CA 94608
Attention: Paul Waite

Client Project ID: Shell 204-0072-0502
Matrix: Liquid
Work Order #: 9708066 05

Reported: Aug 13, 1997

QUALITY CONTROL DATA REPORT - TCLP

Analyte:	1,1-Dichloroethene	Trichloroethene	Benzene	Toluene	Chloro-benzene
QC Batch#:	MS08058240F3A	MS08058240F3A	MS08058240F3A	MS08058240F3A	MS08058240F3A
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 #:	970806605	970806605	970806605	970806605	970806605
Sample Conc.:	N.D.	N.D.	N.D.	N.D.	N.D.
Prepared Date:	8/4/97	8/4/97	8/4/97	8/4/97	8/4/97
Analyzed Date:	8/5/97	8/5/97	8/5/97	8/5/97	8/5/97
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:	410	390	400	410	400
MS % Recovery:	82	78	80	82	80
Dup. Result:	400	380	400	410	400
MSD % Recov.:	80	76	80	82	80
RPD:	2.5	2.6	0.0	0.0	0.0
RPD Limit:	0-25	0-25	0-25	0-25	0-25
LCS #:	VB080597	VB080597	VB080597	VB080597	VB080597
Prepared Date:	8/4/97	8/4/97	8/4/97	8/4/97	8/4/97
Analyzed Date:	8/4/97	8/4/97	8/4/97	8/4/97	8/5/97
Instrument I.D.#:	F3	F3	F3	F3	F3
Conc. Spiked:	50 µg/L	50 µg/L	50 µg/L	50 µg/L	50 µg/L
LCS Result:	46	44	49	50	49
LCS % Recov.:	92	88	98	100	98
MS/MSD Control Limits	60-140	60-140	60-140	60-140	60-140
LCS Control Limits	65-135	70-130	70-130	70-130	70-130

SEQUOIA ANALYTICAL

MT Clark for

Kevin Follett
Project Manager

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

Client Project ID: Shell 204-0072-0502
Matrix: Liquid
Work Order #: 9708006 09

Reported: Aug 13, 1997

QUALITY CONTROL DATA REPORT - TCLP

Analyte:	1,1-Dichloroethene	Trichloroethene	Benzene	Toluene	Chloro-benzene
QC Batch#:	MS08058240F3A	MS08058240F3A	MS08058240F3A	MS08058240F3A	MS08058240F3A
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 #:	970806605	970806605	970806605	970806605	970806605
Sample Conc.:	N.D.	N.D.	N.D.	N.D.	N.D.
Prepared Date:	8/4/97	8/4/97	8/4/97	8/4/97	8/4/97
Analyzed Date:	8/5/97	8/5/97	8/5/97	8/5/97	8/5/97
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:	410	390	400	410	400
MS % Recovery:	82	78	80	82	80
Dup. Result:	400	380	400	410	400
MSD % Recov.:	80	76	80	82	80
RPD:	2.5	2.6	0.0	0.0	0.0
RPD Limit:	0-25	0-25	0-25	0-25	0-25
LCS #:	VB080697	VB080697	VB080697	VB080697	VB080697
Prepared Date:	8/6/97	8/6/97	8/6/97	8/6/97	8/6/97
Analyzed Date:	8/6/97	8/6/97	8/6/97	8/6/97	8/6/97
Instrument I.D.#:	F3	F3	F3	F3	F3
Conc. Spiked:	50 µg/L	50 µg/L	50 µg/L	50 µg/L	50 µg/L
LCS Result:	46	46	48	49	46
LCS % Recov.:	92	92	96	98	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					

SEQUOIA ANALYTICAL

Kevin Follett
Project Manager

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

Client Project ID: Shell 204-0072-0502
Matrix: Liquid
Work Order #: 9708066 05, 09

Reported: Aug 13, 1997

QUALITY CONTROL DATA REPORT - TCLP

Analyte:	1,4-Dichlorobenzene	2,4-Dinitrotoluene	Pentachloro-phenol
QC Batch#:	MS0806978270EXA	MS0806978270EXA	MS0806978270EXA
Analy. Method:	EPA 8270	EPA 8270	EPA 8270
Prep. Method:	EPA 1311	EPA 1311	EPA 1311
Analyst:	E. Manuel	E. Manuel	E. Manuel
MS/MSD #:	970806605	970806605	970806605
Sample Conc.:	N.D.	N.D.	N.D.
Prepared Date:	8/6/97	8/6/97	8/6/97
Analyzed Date:	8/6/97	8/6/97	8/6/97
Instrument I.D.#:	F4	F4	F4
Conc. Spiked:	400 µg/L	400 µg/L	400 µg/L
Result:	290	297	358
MS % Recovery:	73	74	90
Dup. Result:			
MSD % Recov.:			
RPD:			
RPD Limit:			
LCS #:	TB080697	TB080697	TB080697
Prepared Date:	8/6/97	8/6/97	8/6/97
Analyzed Date:	8/6/97	8/6/97	8/6/97
Instrument I.D.#:	F4	F4	F4
Conc. Spiked:	400 µg/L	400 µg/L	400 µg/L
LCS Result:	306	272	340
LCS % Recov.:	77	68	85
MS/MSD LCS Control Limits	42-100	32-114	17-146

SEQUOIA ANALYTICAL

Kevin Follett
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Cambria Environmental Tech.
1144 65th St., Ste. C
Oakland, CA 94608
Attention: Paul Waite

Client Project ID: Shell 204-0072-0502
Matrix: Solid
Work Order #: 9708066 05, 09
Reported: Aug 13, 1997

QUALITY CONTROL DATA REPORT

Analyte:	Mercury
QC Batch#:	ME0805977471M4A
Analy. Method:	EPA 7471
Prep. Method:	EPA 7471
Analyst:	M. Heid
MS/MSD #:	970740601
Sample Conc.:	N.D.
Prepared Date:	8/5/97
Analyzed Date:	8/6/97
Instrument I.D.#:	MPE4
Conc. Spiked:	0.40 mg/Kg
Result:	0.31
MS % Recovery:	78
Dup. Result:	0.32
MSD % Recov.:	80
RPD:	3.2
RPD Limit:	0-30

LCS #:	BLK080597
Prepared Date:	8/5/97
Analyzed Date:	8/8/97
Instrument I.D.#:	MPE4
Conc. Spiked:	0.40 mg/Kg
LCS Result:	0.33
LCS % Recov.:	93

MS/MSD LCS Control Limits	75-125

SEQUOIA ANALYTICAL

Kevin Follett
Project Manager

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

Client Project ID: Shell 204-0072-0502
Matrix: Liquid
Work Order #: 9708066 05, 09

Reported: Aug 13, 1997

QUALITY CONTROL DATA REPORT - TCLP

Analyte:	Mercury
QC Batch#:	ME0805977470M4A
Analy. Method:	EPA 7470
Prep. Method:	EPA 7470
Analyst:	M. Heid
MS/MSD #:	970805801
Sample Conc.:	N.D.
Prepared Date:	8/5/97
Analyzed Date:	8/6/97
Instrument I.D.#:	MPE4
Conc. Spiked:	0.0040 mg/L
Result:	0.0035
MS % Recovery:	88
Dup. Result:	0.0035
MSD % Recov.:	88
RPD:	0.0
RPD Limit:	0-30

LCS #:	BLK080497
Prepared Date:	8/5/97
Analyzed Date:	8/6/97
Instrument I.D.#:	MPE4
Conc. Spiked:	0.0040 mg/L
LCS Result:	0.0035
LCS % Recov.:	88

MS/MSD LCS Control Limits	75-125

SEQUOIA ANALYTICAL

MT Clark for

Kevin Follett
Project Manager

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Attention: Paul Waite

Client Project ID: Shell 204-0072-0502
Matrix: Liquid
Work Order #: 9708066 05, 09

Reported: Aug 13, 1997

QUALITY CONTROL DATA REPORT - TCLP

Analyte:	Beryllium	Cadmium	Chromium	Nickel
QC Batch#:	ME0807976010MDA	ME0807976010MDA	ME0807976010MDA	ME0807976010MDA
Analy. Method:	EPA 6010	EPA 6010	EPA 6010	EPA 6010
Prep. Method:	EPA 3010	EPA 3010	EPA 3010	EPA 3010
Analyst:	R. Butler	R. Butler	R. Butler	R. Butler
MS/MSD #:	9707G0702	9707G0702	9707G0702	9707G0702
Sample Conc.:	N.D.	N.D.	N.D.	N.D.
Prepared Date:	8/7/97	8/7/97	8/7/97	8/7/97
Analyzed Date:	8/7/97	8/7/97	8/7/97	8/7/97
Instrument I.D.#:	MTJA2	MTJA2	MTJA2	MTJA2
Conc. Spiked:	1.0 mg/L	1.0 mg/L	1.0 mg/L	1.0 mg/L
Result:	1.0	1.0	1.0	1.0
MS % Recovery:	100	100	100	100
Dup. Result:	1.0	0.99	0.99	1.0
MSD % Recov.:	100	99	99	100
RPD:	0.0	1.0	1.0	0.0
RPD Limit:	0-20	0-20	0-20	0-20

LCS #:	BLK080797	BLK080797	BLK080797	BLK080797
Prepared Date:	8/7/97	8/7/97	8/7/97	8/7/97
Analyzed Date:	8/7/97	8/7/97	8/7/97	8/7/97
Instrument I.D.#:	MTJA2	MTJA2	MTJA2	MTJA2
Conc. Spiked:	1.0 mg/L	1.0 mg/L	1.0 mg/L	1.0 mg/L
LCS Result:	0.98	0.97	0.98	0.98
LCS % Recov.:	98	97	98	98

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

SEQUOIA ANALYTICAL

Kevin Follett
Project Manager

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Cambria
1144 65th St. Suite C
Oakland, CA 94608
Attention: Paul Waite

Client Proj. ID: Shell 204-0072-0502

Lab Proj. ID: 9708066

Received: 08/04/97

Reported: 08/08/97

LABORATORY NARRATIVE

In order to properly interpret this report, it must be reproduced in its entirety. This report contains a total of 37 pages including the laboratory narrative, sample results, quality control, and related documents as required (cover page, COC, raw data, etc.).

418.1 NOTES: Method Blank result: 27 mg/Kg, DL = 15 mg/Kg.
Method blank was rerun on 8/6/97 with comparable result.

SEQUOIA ANALYTICAL

Kevin Follett
Project Manager

9708006

ISSUED DATE: 02/17/95
CANCELS ISSUE: 11/01/92
ISSUED BY: RLG

MATERIAL: CALIFORNIA SOIL CONTAMINATED WITH WASTE OIL

MINIMUM REQUIRED TESTING

TPH = TOTAL PETROLEUM HYDROCARBONS, 418.1
BTXE = EPA 8020
CAM METALS = TTLC ALL:
STLC ON ALL TTLC METALS 10 X STLC MAXIMUM:
TTLC LEAD => 13 MG/KG REQUIRES ORGANIC ANALYSIS
TCLP EXTRACTION = EPA 1311 **AND**
VOC ON EXTRACT = EPA 8240
SVOC ON EXTRACT = EPA 8270
METALS ON EXTRACT = EPA 6010, (USE 7470 FOR Hg)

NOTE: IF PESTICIDES = EPA 8080 (ON EXTRACT)
IF HERBICIDES = EPA 8150 (ON EXTRACT)

PCBs = EPA METHOD 8080 (NOT ON EXTRACT)
HYDROGEN SULPHIDE = SW-846 (7.3.4.2) (REACTIVITY)
HYDROGEN CYANIDE = SW-846 (7.3.3.2) (REACTIVITY)
pH (CORROSIVITY)

AQUATIC BIOASSAY (FISH TOX) = PART 800 OF "STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER (15TH EDITION)"

LABORATORY INSTRUCTIONS (MINIMUM GUIDELINES ONLY)

- TPH REQUIRED ON ALL SAMPLES
- ALL OTHER TESTS REQUIRED TO BE RUN ON COMPOSITE(S). MAXIMUM 4 SAMPLES PER COMPOSITE.
- STLC REQUIRED FOR METALS WITH TTLC VALUE 10 X STLC MAXIMUM.
- ORGANIC ANALYSIS REQUIRED FOR TTLC LEAD OF 13 MG/KG OR GREATER.
- LABORATORY IS TO SUPPLY QA/QC INFORMATION WITH ALL ANALYTICAL REPORTS.
- MAIL OR FAX ALL ANALYSIS TO PERSON REQUESTING ANALYSIS. **DO NOT** FAX OR MAIL ANALYSES TO RON GEMEINHARDT OR THE WASTE DISPOSAL COORDINATOR UNLESS SPECIFICALLY REQUESTED.
- QUESTIONS REGARDING ANALYSIS, CONTACT RON GEMEINHARDT AT (713) 241-3577.

PROCEDURE ORIGINAL DATE: 07/10/90
PROCEDURE REVISED DATE: 03/20/96

SHELL OIL COMPANY
RETAIL ENVIRONMENTAL ENGINEERING - WEST

CHAIN OF CUSTODY RECORD
Serial No: _____

Date: 8/1/97
Page of

Site Address: 2160 Otis Street Alameda
WIC#: 204-0072-0502
Shell Engineer: Lisa Maylines — Phone No.: 675-6136 Fax #: 675-6130
Consultant Name & Address: CAMBRIA ENVIRONMENTAL 1144 65th St. Suite C, Oakland, CA 94608
Consultant Contact: Paul Waite — Phone No.: 510 420-0700 Fax #: 420-9170
Comments: Use Attached Protocol (1 waste 0.1)
Sampled by: Maureen Fineman
Printed Name: Maureen Fineman

LAB: Seqvoia 97080060

CHECK ONE (1) BOX ONLY — C1/D1

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

TURN AROUND TIME
24 hours ☐
48 hours ☒
16 days ☐ (Normal)
Other ☐ _____
NOTE: Notify Lab as soon as Possible of 24/48 hrs. TAT.

AU 4 # 12

UST AGENCY: Alameda

Analysis Required: TPH (EPA 8015 Mod. Gas); TPH (EPA 8015 Mod. Diesel); BTEX (EPA 8020/602); Volatile Organics (EPA 8240); Test for Disposal; Combination TPH 8015 & BTEX 8020; Asbestos; Container Size; Preparation Used; Composite Y/N

Sample ID	Date	Sludge	Soil	Water	Air	No. of conts.	MATERIAL DESCRIPTION	SAMPLE CONDITION/ COMMENTS
WO-1-4.0	8/1/97	11:05	1					
WO-1-7.5		11:05	1					
WO-1-10.0		11:10	1					
WO-1-12.0		11:15	1					
WO-1-15.5		11:15	1					
WO-1-17.0	8/1/97	11:30	1					
WO-1-18.0	8/1/97	11:30	1					

Composite Y/N: 4:1 Composite for Waste 0.1 Parameters; 3:1 Composite for Waste 0.1 Parameters

Relinquished By (signature)	Printed Name	Date / Time	Received (signature)	Printed Name	Date / Time
	Christina Empedocles	8/4/97 17:15		Penafiel	8/4/97 12:15 pm
	Penafiel	8/4/97			
				Abad	8/4/97 1:12 pm

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

Sequoia Analytical

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Cambria
1144 65th St. Suite C
Oakland, CA 94608
Attention: Paul Waite

Project: Shell 2160 Otis St.

Enclosed are the results from samples received at Sequoia Analytical on September 5, 1997.
The requested analyses are listed below:

SAMPLE #	SAMPLE DESCRIPTION	DATE COLLECTED	TEST METHOD
9709249 -01	SOLID, B-North	09/04/97	Lead
9709249 -01	SOLID, B-North	09/04/97	TPGBMS Purgeable TPH/BTEX
9709249 -02	SOLID, C-North	09/04/97	Lead
9709249 -02	SOLID, C-North	09/04/97	TPGBMS Purgeable TPH/BTEX
9709249 -03	LIQUID, TPW-1	09/04/97	TPGBMW Purgeable TPH/BTEX
9709249 -03	LIQUID, TPW-1	09/04/97	Lead
9709249 -04	SOLID, D-1	09/04/97	Lead
9709249 -04	SOLID, D-1	09/04/97	TPGBMS Purgeable TPH/BTEX
9709249 -05	SOLID, D-2	09/04/97	Lead
9709249 -05	SOLID, D-2	09/04/97	TPGBMS Purgeable TPH/BTEX
9709249 -06	SOLID, D-3	09/04/97	Lead
9709249 -06	SOLID, D-3	09/04/97	TPGBMS Purgeable TPH/BTEX
9709249 -07	SOLID, D-4	09/04/97	Lead
9709249 -07	SOLID, D-4	09/04/97	TPGBMS Purgeable TPH/BTEX
9709249 -08	SOLID, D-5	09/04/97	Lead
9709249 -08	SOLID, D-5	09/04/97	TPGBMS Purgeable TPH/BTEX
9709249 -09	SOLID, D-6	09/04/97	Lead
9709249 -09	SOLID, D-6	09/04/97	TPGBMS Purgeable TPH/BTEX
9709249 -10	SOLID, C-South	09/04/97	Lead
9709249 -10	SOLID, C-South	09/04/97	TPGBMS Purgeable TPH/BTEX
9709249 -11	SOLID, B-South	09/04/97	Lead

SEQUOIA ANALYTICAL

Sequoia Analytical

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SAMPLE #	SAMPLE DESCRIPTION	DATE COLLECTED	TEST METHOD
9709249 -11	SOLID, B-South	09/04/97	TPGBMS Purgeable TPH/BTEX
9709249 -12	SOLID, A-South	09/04/97	Lead
9709249 -12	SOLID, A-South	09/04/97	TPGBMS Purgeable TPH/BTEX
9709249 -17	SOLID, A-North	09/04/97	Lead
9709249 -17	SOLID, A-North	09/04/97	TPGBMS Purgeable TPH/BTEX
9709249 -18	SOLID, Hoist-2	09/04/97	BTEX_S Distinction
9709249 -18	SOLID, Hoist-2	09/04/97	MTBE_S Methyl t-Butyl Ethe
9709249 -18	SOLID, Hoist-2	09/04/97	TPHD_S Extractable TPH
9709249 -19	SOLID, OWS-1	09/04/97	TRPH (SM 5520 E&F)
9709249 -19	SOLID, OWS-1	09/04/97	8010 Halogenated Volatil
9709249 -19	SOLID, OWS-1	09/04/97	8270 SemiVolatile Organi
9709249 -19	SOLID, OWS-1	09/04/97	Cadmium
9709249 -19	SOLID, OWS-1	09/04/97	Chromium
9709249 -19	SOLID, OWS-1	09/04/97	Nickel
9709249 -19	SOLID, OWS-1	09/04/97	Lead
9709249 -19	SOLID, OWS-1	09/04/97	Zinc
9709249 -19	SOLID, OWS-1	09/04/97	TPGBMS Purgeable TPH/BTEX
9709249 -19	SOLID, OWS-1	09/04/97	TPHD_S Extractable TPH
9709249 -20	SOLID, Hoist-1	09/04/97	BTEX_S Distinction
9709249 -20	SOLID, Hoist-1	09/04/97	MTBE_S Methyl t-Butyl Ethe
9709249 -20	SOLID, Hoist-1	09/04/97	TPHD_S Extractable TPH
9709249 -21	SOLID, WO-1	09/04/97	TRPH (SM 5520 E&F)
9709249 -21	SOLID, WO-1	09/04/97	8010 Halogenated Volatil
9709249 -21	SOLID, WO-1	09/04/97	8270 SemiVolatile Organi
9709249 -21	SOLID, WO-1	09/04/97	Cadmium

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SAMPLE #	SAMPLE DESCRIPTION	DATE COLLECTED	TEST METHOD
9709249 -21	SOLID, WO-1	09/04/97	Chromium
9709249 -21	SOLID, WO-1	09/04/97	Nickel
9709249 -21	SOLID, WO-1	09/04/97	Lead
9709249 -21	SOLID, WO-1	09/04/97	Zinc
9709249 -21	SOLID, WO-1	09/04/97	TPGBMS Purgeable TPH/BTEX
9709249 -21	SOLID, WO-1	09/04/97	TPHD_S Extractable TPH
9709249 -22	LIQUID, WO	09/04/97	TPGBMW Purgeable TPH/BTEX
9709249 -22	LIQUID, WO	09/04/97	8010 Halogenated Volatil
9709249 -22	LIQUID, WO	09/04/97	8270 SemiVolatile Organi
9709249 -22	LIQUID, WO	09/04/97	TPHD_W Extractable TPH
9709249 -22	LIQUID, WO	09/04/97	TRPH (SM 5520 B&F)
9709249 -22	LIQUID, WO	09/04/97	Cadmium
9709249 -22	LIQUID, WO	09/04/97	Chromium
9709249 -22	LIQUID, WO	09/04/97	Nickel
9709249 -22	LIQUID, WO	09/04/97	Lead
9709249 -22	LIQUID, WO	09/04/97	Zinc

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,

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Project Manager

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

Attention: Paul Waite

Client Proj. ID: Shell 2160 Otis St.

Lab Proj. ID: 9709249

Sampled: 09/04/97
Received: 09/05/97
Analyzed: see below

Reported: 09/19/97

LABORATORY ANALYSIS

Analyte	Units	Date Analyzed	Detection Limit	Sample Results
Lab No: 9709249-01 Sample Desc : **SOLID,B-North**				
Lead	mg/Kg	09/10/97	5.0	N.D.
Lab No: 9709249-02 Sample Desc : **SOLID,C-North**				
Lead	mg/Kg	09/10/97	5.0	N.D.
Lab No: 9709249-03 Sample Desc : **LIQUID,TPW-1**				
Lead	**mg/L**	**09/11/97**	**0.0050**	**0.018**
Lab No: 9709249-04 Sample Desc : **SOLID,D-1**				
Lead	mg/Kg	09/10/97	5.0	N.D.
Lab No: 9709249-05 Sample Desc : **SOLID,D-2**				
Lead	mg/Kg	09/10/97	5.0	N.D.
Lab No: 9709249-06 Sample Desc : **SOLID,D-3**				
Lead	mg/Kg	09/10/97	5.0	N.D.
Lab No: 9709249-07 Sample Desc : **SOLID,D-4**				
Lead	mg/Kg	09/10/97	5.0	N.D.

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

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

Attention: Paul Waite

Client Proj. ID: Shell 2160 Otis St.

Lab Proj. ID: 9709249

Sampled: 09/04/97
Received: 09/05/97
Analyzed: see below

Reported: 09/19/97

LABORATORY ANALYSIS

Analyte	Units	Date Analyzed	Detection Limit	Sample Results
Lab No: 9709249-08 Sample Desc : **SOLID,D-5**				
Lead	mg/Kg	09/10/97	5.0	N.D.
Lab No: 9709249-09 Sample Desc : **SOLID,D-6**				
Lead	mg/Kg	09/10/97	5.0	N.D.
Lab No: 9709249-10 Sample Desc : **SOLID,C-South**				
Lead	mg/Kg	09/10/97	5.0	N.D.
Lab No: 9709249-11 Sample Desc : **SOLID,B-South**				
Lead	mg/Kg	09/10/97	5.0	N.D.
Lab No: 9709249-12 Sample Desc : **SOLID,A-South**				
Lead	mg/Kg	09/10/97	5.0	N.D.
Lab No: 9709249-17 Sample Desc : **SOLID,A-North**				
Lead	mg/Kg	09/10/97	5.0	N.D.
Lab No: 9709249-19 Sample Desc : **SOLID,OWS-1**				
Cadmium	mg/Kg	09/10/97	0.50	N.D.
Chromium	**mg/Kg**	**09/10/97**	**0.50**	**20**

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

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

Attention: Paul Waite

Client Proj. ID: Shell 2160 Otis St.

Lab Proj. ID: 9709249

Sampled: 09/04/97
Received: 09/05/97
Analyzed: see below

Reported: 09/19/97

LABORATORY ANALYSIS

Analyte	Units	Date Analyzed	Detection Limit	Sample Results
Lead	mg/Kg	09/10/97	5.0	N.D.
Nickel	**mg/Kg**	**09/10/97**	**2.5**	**16**
TRPH (SM 5520 E&F)	mg/Kg	09/15/97	50	N.D.
Zinc	**mg/Kg**	**09/10/97**	**0.50**	**15**
Lab No: 9709249-21				
Sample Desc : **SOLID,WO-1**				
Cadmium	mg/Kg	09/10/97	0.50	N.D.
Chromium	**mg/Kg**	**09/10/97**	**0.50**	**19**
Lead	mg/Kg	09/10/97	5.0	N.D.
Nickel	**mg/Kg**	**09/10/97**	**2.5**	**14**
TRPH (SM 5520 E&F)	mg/Kg	09/15/97	50	N.D.
Zinc	**mg/Kg**	**09/10/97**	**0.50**	**13**
Lab No: 9709249-22				
Sample Desc : **LIQUID,WO**				
Cadmium	mg/L	09/10/97	0.010	N.D.
Chromium	**mg/L**	**09/10/97**	**0.010**	**0.042**
Lead	mg/L	09/10/97	0.10	N.D.
Nickel	**mg/L**	**09/10/97**	**0.050**	**0.068**
TRPH (SM 5520 B&F)	**mg/L**	**09/10/97**	**5.0**	**150**
Zinc	**mg/L**	**09/10/97**	**0.010**	**0.15**

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

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Cambria	Client Proj. ID: Shell 2160 Otis St.	Sampled: 09/04/97
1144 65th St. Suite C	Sample Descript: B-North	Received: 09/05/97
Oakland, CA 94608	Matrix: SOLID	Extracted: 09/15/97
	Analysis Method: 8015Mod/8020	Analyzed: 09/17/97
Attention: Paul Waite	Lab Number: 9709249-01	Reported: 09/19/97

QC Batch Number: GC091597BTEXEXB
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**	**0.11**
Toluene	0.0050	N.D.
Ethyl Benzene	**0.0050**	**0.0081**
Xylenes (Total)	**0.0050**	**0.0089**
Chromatogram Pattern:		

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	104
4-Bromofluorobenzene	60	140	94

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

SEQUOIA ANALYTICAL - ELAP #1210

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Cambria	Client Proj. ID: Shell 2160 Otis St.	Sampled: 09/04/97
1144 65th St. Suite C	Sample Descript: C-North	Received: 09/05/97
Oakland, CA 94608	Matrix: SOLID	Extracted: 09/15/97
	Analysis Method: 8015Mod/8020	Analyzed: 09/16/97
Attention: Paul Waite	Lab Number: 9709249-02	Reported: 09/19/97

QC Batch Number: GC091597BTEXEXB
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**	**0.49**
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	107
4-Bromofluorobenzene	60	140	81

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

SEQUOIA ANALYTICAL - ELAP #1210

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Cambria	Client Proj. ID: Shell 2160 Otis St.	Sampled: 09/04/97
1144 65th St. Suite C	Sample Descript: TPW-1	Received: 09/05/97
Oakland, CA 94608	Matrix: LIQUID	
	Analysis Method: 8015Mod/8020	Analyzed: 09/12/97
Attention: Paul Waite	Lab Number: 9709249-03	Reported: 09/19/97

QC Batch Number: GC091297BTEX06A
Instrument ID: GCHP06

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	**2000**	**8300**
Methyl t-Butyl Ether	**100**	**8300**
Benzene	20	N.D.
Toluene	**20**	**45**
Ethyl Benzene	20	N.D.
Xylenes (Total)	**20**	**1300**
Chromatogram Pattern:		**Gas**

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	117

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

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Cambria	Client Proj. ID: Shell 2160 Otis St.	Sampled: 09/04/97
1144 65th St. Suite C	Sample Descript: D-1	Received: 09/05/97
Oakland, CA 94608	Matrix: SOLID	Extracted: 09/15/97
	Analysis Method: 8015Mod/8020	Analyzed: 09/16/97
Attention: Paul Waite	Lab Number: 9709249-04	Reported: 09/19/97

QC Batch Number: GC091597BTEXEXB
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	106
4-Bromofluorobenzene	60	140	84

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

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Cambria	Client Proj. ID: Shell 2160 Otis St.	Sampled: 09/04/97
1144 65th St. Suite C	Sample Descript: D-2	Received: 09/05/97
Oakland, CA 94608	Matrix: SOLID	Extracted: 09/15/97
	Analysis Method: 8015Mod/8020	Analyzed: 09/16/97
Attention: Paul Walte	Lab Number: 9709249-05	Reported: 09/19/97

QC Batch Number: GC091597BTEXEXB
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	101
4-Bromofluorobenzene	60	140	91

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

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Cambria	Client Proj. ID: Shell 2160 Otis St.	Sampled: 09/04/97
1144 65th St. Suite C	Sample Descript: D-3	Received: 09/05/97
Oakland, CA 94608	Matrix: SOLID	Extracted: 09/15/97
	Analysis Method: 8015Mod/8020	Analyzed: 09/16/97
Attention: Paul Waite	Lab Number: 9709249-06	Reported: 09/19/97

QC Batch Number: GC091597BTEXEXB
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	96
4-Bromofluorobenzene	60	140	89

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

SEQUOIA ANALYTICAL - ELAP #1210

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Cambria	Client Proj. ID: Shell 2160 Otis St.	Sampled: 09/04/97
1144 65th St. Suite C	Sample Descript: D-4	Received: 09/05/97
Oakland, CA 94608	Matrix: SOLID	Extracted: 09/15/97
	Analysis Method: 8015Mod/8020	Analyzed: 09/16/97
Attention: Paul Waite	Lab Number: 9709249-07	Reported: 09/19/97

QC Batch Number: GC091597BTEXEXB
Instrument ID: GCHP18

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	**50**	**270**
Methyl t-Butyl Ether	1.2	N.D.
Benzene	**0.25**	**1.7**
Toluene	**0.25**	**9.3**
Ethyl Benzene	**0.25**	**2.4**
Xylenes (Total)	**0.25**	**22**
Chromatogram Pattern:		**C6-C12**

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	109
4-Bromofluorobenzene	60	140	200 Q

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

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Cambria	Client Proj. ID: Shell 2160 Otis St.	Sampled: 09/04/97
1144 65th St. Suite C	Sample Descript: D-5	Received: 09/05/97
Oakland, CA 94608	Matrix: SOLID	Extracted: 09/15/97
	Analysis Method: 8015Mod/8020	Analyzed: 09/16/97
Attention: Paul Waite	Lab Number: 9709249-08	Reported: 09/19/97

QC Batch Number: GC091597BTEXEXB
Instrument ID: GCHP18

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	**2.0**	**5.5**
Methyl t-Butyl Ether	**0.050**	**0.32**
Benzene	**0.010**	**0.011**
Toluene	0.010	N.D.
Ethyl Benzene	**0.010**	**0.010**
Xylenes (Total)	**0.010**	**0.035**
Chromatogram Pattern:		**C6-C12**

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	98
4-Bromofluorobenzene	60	140	96

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

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Cambria	Client Proj. ID: Shell 2160 Otis St.	Sampled: 09/04/97
1144 65th St. Suite C	Sample Descript: D-6	Received: 09/05/97
Oakland, CA 94608	Matrix: SOLID	Extracted: 09/15/97
	Analysis Method: 8015Mod/8020	Analyzed: 09/16/97
Attention: Paul Walte	Lab Number: 9709249-09	Reported: 09/19/97

QC Batch Number: GC091597BTEXEXB
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**	**1.3**
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:		
Unidentified HC		**C9-C12**

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	98
4-Bromofluorobenzene	60	140	101

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

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Cambria	Client Proj. ID: Shell 2160 Otis St.	Sampled: 09/04/97
1144 65th St. Suite C	Sample Descript: C-South	Received: 09/05/97
Oakland, CA 94608	Matrix: SOLID	Extracted: 09/15/97
	Analysis Method: 8015Mod/8020	Analyzed: 09/17/97
Attention: Paul Waite	Lab Number: 9709249-10	Reported: 09/19/97

QC Batch Number: GC091597BTEXEXB
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**	**0.056**
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	101
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	Client Proj. ID: Shell 2160 Otis St.	Sampled: 09/04/97
1144 65th St. Suite C	Sample Descript: B-South	Received: 09/05/97
Oakland, CA 94608	Matrix: SOLID	Extracted: 09/15/97
	Analysis Method: 8015Mod/8020	Analyzed: 09/16/97
Attention: Paul Walte	Lab Number: 9709249-11	Reported: 09/19/97

QC Batch Number: GC091597BTEXEXB
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	88
4-Bromofluorobenzene	60	140	95

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

SEQUOIA ANALYTICAL - ELAP #1210

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Cambria	Client Proj. ID: Shell 2160 Otis St.	Sampled: 09/04/97
1144 65th St. Suite C	Sample Descript: A-South	Received: 09/05/97
Oakland, CA 94608	Matrix: SOLID	Extracted: 09/15/97
	Analysis Method: 8015Mod/8020	Analyzed: 09/17/97
Attention: Paul Walte	Lab Number: 9709249-12	Reported: 09/19/97

QC Batch Number: GC091597BTEXEXB
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	92
4-Bromofluorobenzene	60	140	83

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

SEQUOIA ANALYTICAL - ELAP #1210

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Cambria	Client Proj. ID: Shell 2160 Otis St.	Sampled: 09/04/97
1144 65th St. Suite C	Sample Descript: A-North	Received: 09/05/97
Oakland, CA 94608	Matrix: SOLID	Extracted: 09/15/97
	Analysis Method: 8015Mod/8020	Analyzed: 09/16/97
Attention: Paul Waite	Lab Number: 9709249-17	Reported: 09/19/97

QC Batch Number: GC091597BTEXEXB
Instrument ID: GCHP18

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	93
4-Bromofluorobenzene	60	140	95

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

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Cambria	Client Proj. ID: Shell 2160 Otis St.	Sampled: 09/04/97
1144 65th St. Suite C	Sample Descript: Hoist-2	Received: 09/05/97
Oakland, CA 94608	Matrix: SOLID	Extracted: 09/15/97
	Analysis Method: EPA 8020	Analyzed: 09/16/97
Attention: Paul Waite	Lab Number: 9709249-18	Reported: 09/19/97

QC Batch Number: GC091597BTEXEXC
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	109
4-Bromofluorobenzene	60	140	95

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

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Cambria	Client Proj. ID: Shell 2160 Otis St.	Sampled: 09/04/97
1144 65th St. Suite C	Sample Descript: Hoist-2	Received: 09/05/97
Oakland, CA 94608	Matrix: SOLID	Extracted: 09/15/97
	Analysis Method: EPA 8020	Analyzed: 09/16/97
Attention: Paul Waite	Lab Number: 9709249-18	Reported: 09/19/97

QC Batch Number: GC091597BTEXEXC
Instrument ID: GCHP22

Methyl t-Butyl Ether (MTBE)

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
Methyl t-Butyl Ether	0.025	N.D.

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	109
4-Bromofluorobenzene	60	140	95

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

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Cambria	Client Proj. ID: Shell 2160 Otis St.	Sampled: 09/04/97
1144 65th St. Suite C	Sample Descript: Hoist-2	Received: 09/05/97
Oakland, CA 94608	Matrix: SOLID	Extracted: 09/09/97
	Analysis Method: EPA 8015 Mod	Analyzed: 09/10/97
Attention: Paul Waite	Lab Number: 9709249-18	Reported: 09/19/97

QC Batch Number: GC0909970HBPEXA
Instrument ID: GCHP4B

Total Extractable Petroleum Hydrocarbons (TEPH)

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

Surrogates	Control Limits %		% Recovery
n-Pentacosane (C25)	50	150	75

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

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Cambria	Client Proj. ID: Shell 2160 Otis St.	Sampled: 09/04/97
1144 65th St. Suite C	Sample Descript: OWS-1	Received: 09/05/97
Oakland, CA 94608	Matrix: SOLID	Extracted: 09/10/97
	Analysis Method: EPA 8010	Analyzed: 09/11/97
Attention: Paul Walte	Lab Number: 9709249-19	Reported: 09/19/97

QC Batch Number: GC0910978010EXA
Instrument ID: GCHP08

Halogenated Volatile Organics (EPA 8010)

Analyte	Detection Limit ug/Kg	Sample Results ug/Kg
Bromodichloromethane	25	N.D.
Bromoform	25	N.D.
Bromomethane	50	N.D.
Carbon Tetrachloride	25	N.D.
Chlorobenzene	25	N.D.
Chloroethane	50	N.D.
2-Chloroethylvinyl ether	50	N.D.
Chloroform	25	N.D.
Chloromethane	50	N.D.
Dibromochloromethane	25	N.D.
1,2-Dichlorobenzene	25	N.D.
1,3-Dichlorobenzene	25	N.D.
1,4-Dichlorobenzene	25	N.D.
1,1-Dichloroethane	25	N.D.
1,2-Dichloroethane	25	N.D.
1,1-Dichloroethene	25	N.D.
cis-1,2-Dichloroethene	25	N.D.
trans-1,2-Dichloroethene	25	N.D.
1,2-Dichloropropane	25	N.D.
cis-1,3-Dichloropropene	25	N.D.
trans-1,3-Dichloropropene	25	N.D.
Methylene chloride	250	N.D.
1,1,2,2-Tetrachloroethane	25	N.D.
Tetrachloroethene	25	N.D.
1,1,1-Trichloroethane	25	N.D.
1,1,2-Trichloroethane	25	N.D.
Trichloroethene	25	N.D.
Trichlorofluoromethane	25	N.D.
Vinyl chloride	50	N.D.

Surrogates	Control Limits %		% Recovery
1-Chloro-2-fluorobenzene	60	130	102
4-Bromofluorobenzene	60	140	62

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

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Cambria	Client Proj. ID: Shell 2160 Otis St.	Sampled: 09/04/97
1144 65th St. Suite C	Sample Descript: OWS-1	Received: 09/05/97
Oakland, CA 94608	Matrix: SOLID	Extracted: 09/09/97
	Analysis Method: EPA 8270	Analyzed: 09/10/97
Attention: Paul Waite	Lab Number: 9709249-19	Reported: 09/19/97

QC Batch Number: MS0909978270EXB
Instrument ID: H5

Semivolatile Organics (EPA 8270)

Analyte	Detection Limit ug/Kg	Sample Results ug/Kg
Acenaphthene	250	N.D.
Acenaphthylene	250	N.D.
Anthracene	250	N.D.
Benzoic Acid	500	N.D.
Benzo(a)anthracene	250	N.D.
Benzo(b)fluoranthene	250	N.D.
Benzo(k)fluoranthene	250	N.D.
Benzo(g,h,i)perylene	250	N.D.
Benzo(a)pyrene	250	N.D.
Benzyl alcohol	250	N.D.
Bis(2-chloroethoxy)methane	250	N.D.
Bis(2-chloroethyl)ether	250	N.D.
Bis(2-chloroisopropyl)ether	250	N.D.
Bis(2-ethylhexyl)phthalate	500	N.D.
4-Bromophenyl phenyl ether	250	N.D.
Butyl benzyl phthalate	250	N.D.
4-Chloroaniline	500	N.D.
2-Chloronaphthalene	250	N.D.
4-Chloro-3-methylphenol	250	N.D.
2-Chlorophenol	250	N.D.
4-Chlorophenyl phenyl ether	250	N.D.
Chrysene	250	N.D.
Dibenzo(a,h)anthracene	250	N.D.
Dibenzofuran	250	N.D.
Di-n-butyl phthalate	500	N.D.
1,2-Dichlorobenzene	250	N.D.
1,3-Dichlorobenzene	250	N.D.
1,4-Dichlorobenzene	250	N.D.
3,3'-Dichlorobenzidine	500	N.D.
2,4-Dichlorophenol	250	N.D.
Diethyl phthalate	250	N.D.
2,4-Dimethylphenol	250	N.D.
Dimethyl phthalate	250	N.D.
4,6-Dinitro-2-methylphenol	500	N.D.
2,4-Dinitrophenol	500	N.D.
2,4-Dinitrotoluene	250	N.D.
2,6-Dinitrotoluene	250	N.D.
Di-n-octyl phthalate	250	N.D.
Fluoranthene	250	N.D.

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Cambria	Client Proj. ID: Shell 2160 Otis St.	Sampled: 09/04/97
1144 65th St. Suite C	Sample Descript: OWS-1	Received: 09/05/97
Oakland, CA 94608	Matrix: SOLID	Extracted: 09/09/97
	Analysis Method: EPA 8270	Analyzed: 09/10/97
Attention: Paul Walte	Lab Number: 9709249-19	Reported: 09/19/97

QC Batch Number: MS0909978270EXB
Instrument ID: H5

Analyte	Detection Limit ug/Kg	Sample Results ug/Kg
Fluorene	250	N.D.
Hexachlorobenzene	250	N.D.
Hexachlorobutadiene	250	N.D.
Hexachlorocyclopentadiene	500	N.D.
Hexachloroethane	250	N.D.
Indeno(1,2,3-cd)pyrene	250	N.D.
Isophorone	250	N.D.
2-Methylnaphthalene	250	N.D.
2-Methylphenol	250	N.D.
4-Methylphenol	250	N.D.
Naphthalene	250	N.D.
2-Nitroaniline	500	N.D.
3-Nitroaniline	500	N.D.
4-Nitroaniline	500	N.D.
Nitrobenzene	250	N.D.
2-Nitrophenol	250	N.D.
4-Nitrophenol	500	N.D.
N-Nitrosodiphenylamine	250	N.D.
N-Nitroso-di-n-propylamine	250	N.D.
Pentachlorophenol	500	N.D.
Phenanthrene	250	N.D.
Phenol	250	N.D.
Pyrene	250	N.D.
1,2,4-Trichlorobenzene	250	N.D.
2,4,5-Trichlorophenol	500	N.D.
2,4,6-Trichlorophenol	250	N.D.

Surrogates	Control Limits %		% Recovery
2-Fluorophenol	25	121	47
Phenol-d5	24	113	48
Nitrobenzene-d5	23	120	40
2-Fluorobiphenyl	30	115	47
2,4,6-Tribromophenol	19	122	50
p-Terphenyl-d14	18	137	38

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

SEQUOIA ANALYTICAL - ELAP #1210

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Cambria	Client Proj. ID: Shell 2160 Otis St.	Sampled: 09/04/97
1144 65th St. Suite C	Sample Descript: OWS-1	Received: 09/05/97
Oakland, CA 94608	Matrix: SOLID	Extracted: 09/15/97
	Analysis Method: 8015Mod/8020	Analyzed: 09/18/97
Attention: Paul Walte	Lab Number: 9709249-19	Reported: 09/19/97

QC Batch Number: GC091597BTEXEXC
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	84
4-Bromofluorobenzene	60	140	83

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

SEQUOIA ANALYTICAL - ELAP #1210

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Cambria	Client Proj. ID: Shell 2160 Otis St.	Sampled: 09/04/97
1144 65th St. Suite C	Sample Descript: OWS-1	Received: 09/05/97
Oakland, CA 94608	Matrix: SOLID	Extracted: 09/09/97
	Analysis Method: EPA 8015 Mod	Analyzed: 09/10/97
Attention: Paul Waite	Lab Number: 9709249-19	Reported: 09/19/97

QC Batch Number: GC0909970HBPEXA
Instrument ID: GCHP4B

Total Extractable Petroleum Hydrocarbons (TEPH)

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

Surrogates	Control Limits %		% Recovery
n-Pentacosane (C25)	50	150	76

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

SEQUOIA ANALYTICAL - ELAP #1210

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Cambria	Client Proj. ID: Shell 2160 Otis St.	Sampled: 09/04/97
1144 65th St. Suite C	Sample Descript: Hoist-1	Received: 09/05/97
Oakland, CA 94608	Matrix: SOLID	Extracted: 09/15/97
	Analysis Method: EPA 8020	Analyzed: 09/16/97
Attention: Paul Waite	Lab Number: 9709249-20	Reported: 09/19/97

QC Batch Number: GC091597BTEXEXC
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	109
4-Bromofluorobenzene	60	140	100

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

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Cambria	Client Proj. ID: Shell 2160 Otis St.	Sampled: 09/04/97
1144 65th St. Suite C	Sample Descript: Hoist-1	Received: 09/05/97
Oakland, CA 94608	Matrix: SOLID	Extracted: 09/15/97
	Analysis Method: EPA 8020	Analyzed: 09/16/97
Attention: Paul Waite	Lab Number: 9709249-20	Reported: 09/19/97

QC Batch Number: GC091597BTEXEXC
Instrument ID: GCHP22

Methyl t-Butyl Ether (MTBE)

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
Methyl t-Butyl Ether	0.025	N.D.

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	109
4-Bromofluorobenzene	60	140	100

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

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Cambria	Client Proj. ID: Shell 2160 Otis St.	Sampled: 09/04/97
1144 65th St. Suite C	Sample Descript: Hoist-1	Received: 09/05/97
Oakland, CA 94608	Matrix: SOLID	Extracted: 09/09/97
	Analysis Method: EPA 8015 Mod	Analyzed: 09/11/97
Attention: Paul Waite	Lab Number: 9709249-20	Reported: 09/19/97

QC Batch Number: GC0909970HBPEXA
Instrument ID: GCHP4B

Total Extractable Petroleum Hydrocarbons (TEPH)

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

Surrogates	Control Limits %		% Recovery
n-Pentacosane (C25)	50	150	71

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

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Cambria	Client Proj. ID: Shell 2160 Otis St.	Sampled: 09/04/97
1144 65th St. Suite C	Sample Descript: WO-1	Received: 09/05/97
Oakland, CA 94608	Matrix: SOLID	Extracted: 09/10/97
	Analysis Method: EPA 8010	Analyzed: 09/11/97
Attention: Paul Waite	Lab Number: 9709249-21	Reported: 09/19/97

QC Batch Number: GC0910978010EXA
Instrument ID: GCHP08

Halogenated Volatile Organics (EPA 8010)

Analyte	Detection Limit ug/Kg	Sample Results ug/Kg
Bromodichloromethane	25	N.D.
Bromoform	25	N.D.
Bromomethane	50	N.D.
Carbon Tetrachloride	25	N.D.
Chlorobenzene	25	N.D.
Chloroethane	50	N.D.
2-Chloroethylvinyl ether	50	N.D.
Chloroform	25	N.D.
Chloromethane	50	N.D.
Dibromochloromethane	25	N.D.
1,2-Dichlorobenzene	25	N.D.
1,3-Dichlorobenzene	25	N.D.
1,4-Dichlorobenzene	25	N.D.
1,1-Dichloroethane	25	N.D.
1,2-Dichloroethane	25	N.D.
1,1-Dichloroethene	25	N.D.
cis-1,2-Dichloroethene	25	N.D.
trans-1,2-Dichloroethene	25	N.D.
1,2-Dichloropropane	25	N.D.
cis-1,3-Dichloropropene	25	N.D.
trans-1,3-Dichloropropene	25	N.D.
Methylene chloride	250	N.D.
1,1,2,2-Tetrachloroethane	25	N.D.
Tetrachloroethene	25	N.D.
1,1,1-Trichloroethane	25	N.D.
1,1,2-Trichloroethane	25	N.D.
Trichloroethene	25	N.D.
Trichlorofluoromethane	25	N.D.
Vinyl chloride	50	N.D.

Surrogates	Control Limits %		% Recovery
1-Chloro-2-fluorobenzene	60	130	86
4-Bromofluorobenzene	60	140	46 Q

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

SEQUOIA ANALYTICAL - ELAP #1210

Richard Herling
Project Manager

Sequoia Analytical

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819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Cambria	Client Proj. ID: Shell 2160 Otis St.	Sampled: 09/04/97
1144 65th St. Suite C	Sample Descript: WO-1	Received: 09/05/97
Oakland, CA 94608	Matrix: SOLID	Extracted: 09/09/97
	Analysis Method: EPA 8270	Analyzed: 09/10/97
Attention: Paul Waite	Lab Number: 9709249-21	Reported: 09/19/97

QC Batch Number: MS0909978270EXA
Instrument ID: H5

Semivolatile Organics (EPA 8270)

Analyte	Detection Limit ug/Kg	Sample Results ug/Kg
Acenaphthene	250	N.D.
Acenaphthylene	250	N.D.
Anthracene	250	N.D.
Benzoic Acid	500	N.D.
Benzo(a)anthracene	250	N.D.
Benzo(b)fluoranthene	250	N.D.
Benzo(k)fluoranthene	250	N.D.
Benzo(g,h,i)perylene	250	N.D.
Benzo(a)pyrene	250	N.D.
Benzyl alcohol	250	N.D.
Bis(2-chloroethoxy)methane	250	N.D.
Bis(2-chloroethyl)ether	250	N.D.
Bis(2-chloroisopropyl)ether	250	N.D.
Bis(2-ethylhexyl)phthalate	500	N.D.
4-Bromophenyl phenyl ether	250	N.D.
Butyl benzyl phthalate	250	N.D.
4-Chloroaniline	500	N.D.
2-Chloronaphthalene	250	N.D.
4-Chloro-3-methylphenol	250	N.D.
2-Chlorophenol	250	N.D.
4-Chlorophenyl phenyl ether	250	N.D.
Chrysene	250	N.D.
Dibenzo(a,h)anthracene	250	N.D.
Dibenzofuran	250	N.D.
Di-n-butyl phthalate	500	N.D.
1,2-Dichlorobenzene	250	N.D.
1,3-Dichlorobenzene	250	N.D.
1,4-Dichlorobenzene	250	N.D.
3,3'-Dichlorobenzidine	500	N.D.
2,4-Dichlorophenol	250	N.D.
Diethyl phthalate	250	N.D.
2,4-Dimethylphenol	250	N.D.
Dimethyl phthalate	250	N.D.
4,6-Dinitro-2-methylphenol	500	N.D.
2,4-Dinitrophenol	500	N.D.
2,4-Dinitrotoluene	250	N.D.
2,6-Dinitrotoluene	250	N.D.
Di-n-octyl phthalate	250	N.D.
Fluoranthene	250	N.D.

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819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Cambria	Client Proj. ID: Shell 2160 Otis St.	Sampled: 09/04/97
1144 65th St. Suite C	Sample Descript: WO-1	Received: 09/05/97
Oakland, CA 94608	Matrix: SOLID	Extracted: 09/09/97
	Analysis Method: EPA 8270	Analyzed: 09/10/97
Attention: Paul Waite	Lab Number: 9709249-21	Reported: 09/19/97

QC Batch Number: MS0909978270EXA
Instrument ID: H5

Analyte	Detection Limit ug/Kg	Sample Results ug/Kg
Fluorene	250	N.D.
Hexachlorobenzene	250	N.D.
Hexachlorobutadiene	250	N.D.
Hexachlorocyclopentadiene	500	N.D.
Hexachloroethane	250	N.D.
Indeno(1,2,3-cd)pyrene	250	N.D.
Isophorone	250	N.D.
2-Methylnaphthalene	250	N.D.
2-Methylphenol	250	N.D.
4-Methylphenol	250	N.D.
Naphthalene	250	N.D.
2-Nitroaniline	500	N.D.
3-Nitroaniline	500	N.D.
4-Nitroaniline	500	N.D.
Nitrobenzene	250	N.D.
2-Nitrophenol	250	N.D.
4-Nitrophenol	500	N.D.
N-Nitrosodiphenylamine	250	N.D.
N-Nitroso-di-n-propylamine	250	N.D.
Pentachlorophenol	500	N.D.
Phenanthrene	250	N.D.
Phenol	250	N.D.
Pyrene	250	N.D.
1,2,4-Trichlorobenzene	250	N.D.
2,4,5-Trichlorophenol	500	N.D.
2,4,6-Trichlorophenol	250	N.D.

Surrogates	Control Limits %		% Recovery
2-Fluorophenol	25	121	44
Phenol-d5	24	113	50
Nitrobenzene-d5	23	120	45
2-Fluorobiphenyl	30	115	50
2,4,6-Tribromophenol	19	122	55
p-Terphenyl-d14	18	137	41

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

SEQUOIA ANALYTICAL - ELAP #1210

Richard Herling
Project Manager

Sequoia Analytical

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819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Cambria	Client Proj. ID: Shell 2160 Otis St.	Sampled: 09/04/97
1144 65th St. Suite C	Sample Descript: WO-1	Received: 09/05/97
Oakland, CA 94608	Matrix: SOLID	Extracted: 09/15/97
	Analysis Method: 8015Mod/8020	Analyzed: 09/18/97
Attention: Paul Waite	Lab Number: 9709249-21	Reported: 09/19/97

QC Batch Number: GC091597BTEXEXC
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	83
4-Bromofluorobenzene	60	140	83

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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819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Cambria	Client Proj. ID: Shell 2160 Otis St.	Sampled: 09/04/97
1144 65th St. Suite C	Sample Descript: WO-1	Received: 09/05/97
Oakland, CA 94608	Matrix: SOLID	Extracted: 09/09/97
	Analysis Method: EPA 8015 Mod	Analyzed: 09/11/97
Attention: Paul Waite	Lab Number: 9709249-21	Reported: 09/19/97

QC Batch Number: GC0909970HBPEXA
Instrument ID: GCHP4B

Total Extractable Petroleum Hydrocarbons (TEPH)

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

Surrogates	Control Limits %		% Recovery
n-Pentacosane (C25)	50	150	78

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

SEQUOIA ANALYTICAL - ELAP #1210

Richard Herling
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Cambria	Client Proj. ID: Shell 2160 Otis St.	Sampled: 09/04/97
1144 65th St. Suite C	Sample Descript: WO	Received: 09/05/97
Oakland, CA 94608	Matrix: LIQUID	
	Analysis Method: 8015Mod/8020	Analyzed: 09/15/97
Attention: Paul Waite	Lab Number: 9709249-22	Reported: 09/19/97

QC Batch Number: GC091597BTEX07A
Instrument ID: GCHP07

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**	**8.5**
Benzene	0.50	N.D.
Toluene	0.50	N.D.
Ethyl Benzene	0.50	N.D.
Xylenes (Total)	**0.50**	**0.81**
Chromatogram Pattern:		

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	107

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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819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Cambria	Client Proj. ID: Shell 2160 Otis St.	Sampled: 09/04/97
1144 65th St. Suite C	Sample Descript: WO	Received: 09/05/97
Oakland, CA 94608	Matrix: LIQUID	
	Analysis Method: EPA 8010	Analyzed: 09/12/97
Attention: Paul Walte	Lab Number: 9709249-22	Reported: 09/19/97

QC Batch Number: GC091097801024A
Instrument ID: GCHP24_2

Halogenated Volatile Organics (EPA 8010)

Analyte	Detection Limit ug/L	Sample Results ug/L
Bromodichloromethane	1.0	N.D.
Bromoform	1.0	N.D.
Bromomethane	2.0	N.D.
Carbon Tetrachloride	1.0	N.D.
Chlorobenzene	1.0	N.D.
Chloroethane	2.0	N.D.
2-Chloroethylvinyl ether	2.0	N.D.
Chloroform	**1.0**	**3.7**
Chloromethane	2.0	N.D.
Dibromochloromethane	1.0	N.D.
1,2-Dichlorobenzene	1.0	N.D.
1,3-Dichlorobenzene	1.0	N.D.
1,4-Dichlorobenzene	1.0	N.D.
1,1-Dichloroethane	1.0	N.D.
1,2-Dichloroethane	1.0	N.D.
1,1-Dichloroethene	1.0	N.D.
cis-1,2-Dichloroethene	1.0	N.D.
trans-1,2-Dichloroethene	1.0	N.D.
1,2-Dichloropropane	1.0	N.D.
cis-1,3-Dichloropropene	1.0	N.D.
trans-1,3-Dichloropropene	1.0	N.D.
Methylene chloride	**10**	**77**
1,1,2,2-Tetrachloroethane	1.0	N.D.
Tetrachloroethene	1.0	N.D.
1,1,1-Trichloroethane	1.0	N.D.
1,1,2-Trichloroethane	1.0	N.D.
Trichloroethene	1.0	N.D.
Trichlorofluoromethane	1.0	N.D.
Vinyl chloride	2.0	N.D.

Surrogates	Control Limits %		% Recovery
1-Chloro-2-fluorobenzene	70	130	90

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	Client Proj. ID: Shell 2160 Otis St.	Sampled: 09/04/97
1144 65th St. Suite C	Sample Descript: WO	Received: 09/05/97
Oakland, CA 94608	Matrix: LIQUID	Extracted: 09/11/97
	Analysis Method: EPA 8270	Analyzed: 09/13/97
Attention: Paul Waite	Lab Number: 9709249-22	Reported: 09/19/97

QC Batch Number: MS0911978270EXB
Instrument ID: H5

Semivolatile Organics (EPA 8270)

Analyte	Detection Limit ug/L	Sample Results ug/L
Acenaphthene	5.0	N.D.
Acenaphthylene	5.0	N.D.
Anthracene	5.0	N.D.
Benzoic Acid	10	N.D.
Benzo(a)anthracene	5.0	N.D.
Benzo(b)fluoranthene	5.0	N.D.
Benzo(k)fluoranthene	5.0	N.D.
Benzo(g,h,i)perylene	5.0	N.D.
Benzo(a)pyrene	5.0	N.D.
Benzyl alcohol	5.0	N.D.
Bis(2-chloroethoxy)methane	5.0	N.D.
Bis(2-chloroethyl)ether	5.0	N.D.
Bis(2-chloroisopropyl)ether	5.0	N.D.
Bis(2-ethylhexyl)phthalate	10	N.D.
4-Bromophenyl phenyl ether	5.0	N.D.
Butyl benzyl phthalate	5.0	N.D.
4-Chloroaniline	10	N.D.
2-Chloronaphthalene	5.0	N.D.
4-Chloro-3-methylphenol	5.0	N.D.
2-Chlorophenol	5.0	N.D.
4-Chlorophenyl phenyl ether	5.0	N.D.
Chrysene	5.0	N.D.
Dibenzo(a,h)anthracene	5.0	N.D.
Dibenzofuran	5.0	N.D.
Di-n-butyl phthalate	10	N.D.
1,2-Dichlorobenzene	5.0	N.D.
1,3-Dichlorobenzene	5.0	N.D.
1,4-Dichlorobenzene	5.0	N.D.
3,3-Dichlorobenzidine	10	N.D.
2,4-Dichlorophenol	5.0	N.D.
Diethyl phthalate	5.0	N.D.
2,4-Dimethylphenol	5.0	N.D.
Dimethyl phthalate	5.0	N.D.
4,6-Dinitro-2-methylphenol	10	N.D.
2,4-Dinitrophenol	10	N.D.
2,4-Dinitrotoluene	5.0	N.D.
2,6-Dinitrotoluene	5.0	N.D.
Di-n-octyl phthalate	5.0	N.D.
Fluoranthene	5.0	N.D.

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Cambria	Client Proj. ID: Shell 2160 Otis St.	Sampled: 09/04/97
1144 65th St. Suite C	Sample Descript: WO	Received: 09/05/97
Oakland, CA 94608	Matrix: LIQUID	Extracted: 09/11/97
	Analysis Method: EPA 8270	Analyzed: 09/13/97
Attention: Paul Waite	Lab Number: 9709249-22	Reported: 09/19/97

QC Batch Number: MS0911978270EXB
Instrument ID: H5

Analyte	Detection Limit ug/L	Sample Results ug/L
Fluorene	5.0	N.D.
Hexachlorobenzene	5.0	N.D.
Hexachlorobutadiene	5.0	N.D.
Hexachlorocyclopentadiene	10	N.D.
Hexachloroethane	5.0	N.D.
Indeno(1,2,3-cd)pyrene	5.0	N.D.
Isophorone	5.0	N.D.
2-Methylnaphthalene	5.0	N.D.
2-Methylphenol	5.0	N.D.
4-Methylphenol	5.0	N.D.
Naphthalene	5.0	N.D.
2-Nitroaniline	10	N.D.
3-Nitroaniline	10	N.D.
4-Nitroaniline	10	N.D.
Nitrobenzene	5.0	N.D.
2-Nitrophenol	5.0	N.D.
4-Nitrophenol	10	N.D.
n-Nitrosodiphenylamine	5.0	N.D.
n-Nitroso-di-n-propylamine	5.0	N.D.
Pentachlorophenol	10	N.D.
Phenanthrene	5.0	N.D.
Phenol	5.0	N.D.
Pyrene	5.0	N.D.
1,2,4-Trichlorobenzene	5.0	N.D.
2,4,5-Trichlorophenol	10	N.D.
2,4,6-Trichlorophenol	5.0	N.D.

Surrogates	Control Limits %		% Recovery
2-Fluorophenol	21	110	27
Phenol-d5	10	110	16
Nitrobenzene-d5	35	114	38
2-Fluorobiphenyl	43	116	48
2,4,6-Tribromophenol	10	123	54
p-Terphenyl-d14	33	141	36

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

SEQUOIA ANALYTICAL - ELAP #1210

Richard Herling
Project Manager

Sequoia Analytical

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819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Cambria	Client Proj. ID: Shell 2160 Otis St.	Sampled: 09/04/97
1144 65th St. Suite C	Sample Descript: WO	Received: 09/05/97
Oakland, CA 94608	Matrix: LIQUID	Extracted: 09/10/97
	Analysis Method: EPA 8015 Mod	Analyzed: 09/15/97
Attention: Paul Waite	Lab Number: 9709249-22	Reported: 09/19/97

QC Batch Number: GC0910970HBPEXZ
Instrument ID: GCHP4A

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit ug/L	Sample Results ug/L
TEPH as Diesel	**500**	**12000**
Chromatogram Pattern:		
Unidentified HC		**C9-C24**

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

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

SEQUOIA ANALYTICAL - ELAP #1210

Richard Herling
Project Manager

Sequoia Analytical

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

Client Project ID: Shell 2160 Otis St.
Matrix: Solid
Work Order #: 9709249 01-12, 17, 19, 21

Reported: Sep 24, 1997

QUALITY CONTROL DATA REPORT

Analyte:	Beryllium	Cadmium	Chromium	Nickel
QC Batch#:	ME0910976010MDE	ME0910976010MDE	ME0910976010MDE	ME0910976010MDE
Analy. Method:	EPA 6010	EPA 6010	EPA 6010	EPA 6010
Prep. Method:	EPA 3050	EPA 3050	EPA 3050	EPA 3050
Analyst:	R. Butler	R. Butler	R. Butler	R. Butler
MS/MSD #:	970932801	970932801	970932801	970932801
Sample Conc.:	N.D.	N.D.	52	23
Prepared Date:	9/10/97	9/10/97	9/10/97	9/10/97
Analyzed Date:	9/10/97	9/10/97	9/10/97	9/10/97
Instrument I.D.#:	MTJA2	MTJA2	MTJA2	MTJA2
Conc. Spiked:	100 mg/Kg	100 mg/Kg	100 mg/Kg	100 mg/Kg
Result:	42	42	100	61
MS % Recovery:	84	84	96	76
Dup. Result:	44	44	100	79
MSD % Recov.:	88	88	96	110
RPD:	4.6	4.6	0.0	20
RPD Limit:	0-20	0-20	0-20	0-20
LCS #:	BLK091097	BLK091097	BLK091097	BLK091097
Prepared Date:	9/10/97	9/10/97	9/10/97	9/10/97
Analyzed Date:	9/10/97	9/10/97	9/10/97	9/10/97
Instrument I.D.#:	MTJA2	MTJA2	MTJA2	MTJA2
Conc. Spiked:	100 mg/Kg	100 mg/Kg	100 mg/Kg	100 mg/Kg
LCS Result:	43	43	44	44
LCS % Recov.:	86	86	88	88
MS/MSD Control Limits	80-120	80-120	80-120	80-120
LCS Control Limits	80-120	80-120	80-120	80-120

SEQUOIA ANALYTICAL

Richard Herling
Project Manager

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

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

Sequoia Analytical

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

Client Project ID: Shell 2160 Otis St.
Matrix: Liquid
Work Order #: 9709249 22

Reported: Sep 24, 1997

QUALITY CONTROL DATA REPORT

Analyte:	Beryllium	Cadmium	Chromium	Nickel
QC Batch#:	ME0909976010MDA	ME0909976010MDA	ME0909976010MDA	ME0909976010MDA
Analy. Method:	EPA 6010	EPA 6010	EPA 6010	EPA 6010
Prep. Method:	EPA 3010	EPA 3010	EPA 3010	EPA 3010
Analyst:	C. Medefesser	C. Medefesser	C. Medefesser	C. Medefesser
MS/MSD #:	970908401	970908401	970908401	970908401
Sample Conc.:	N.D.	N.D.	N.D.	N.D.
Prepared Date:	9/9/97	9/9/97	9/9/97	9/9/97
Analyzed Date:	9/9/97	9/9/97	9/9/97	9/9/97
Instrument I.D.#:	MTJA2	MTJA2	MTJA2	MTJA2
Conc. Spiked:	1.0 mg/L	1.0 mg/L	1.0 mg/L	1.0 mg/L
Result:	0.98	0.98	0.97	0.98
MS % Recovery:	98	98	97	98
Dup. Result:	0.98	0.97	0.96	0.97
MSD % Recov.:	98	97	96	97
RPD:	0.0	1.0	1.0	1.0
RPD Limit:	0-20	0-20	0-20	0-20
LCS #:	BLK090997	BLK090997	BLK090997	BLK090997
Prepared Date:	9/9/97	9/9/97	9/9/97	9/9/97
Analyzed Date:	9/9/97	9/9/97	9/9/97	9/9/97
Instrument I.D.#:	MTJA2	MTJA2	MTJA2	MTJA2
Conc. Spiked:	1.0 mg/L	1.0 mg/L	1.0 mg/L	1.0 mg/L
LCS Result:	0.98	0.98	0.98	0.99
LCS % Recov.:	98	98	98	99
MS/MSD Control Limits	80-120	80-120	80-120	80-120
LCS Control Limits	80-120	80-120	80-120	80-120

SEQUOIA ANALYTICAL

Richard Herling
Project Manager

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

Client Project ID: Shell 2160 Otis St.
Matrix: Liquid
Work Order #: 9709249 03

Reported: Sep 24, 1997

QUALITY CONTROL DATA REPORT

Analyte:	Lead
QC Batch#:	ME0911977000MDA
Analy. Method:	EPA 239.2
Prep. Method:	EPA 3020
Analyst:	J. Jencks
MS/MSD #:	970920401
Sample Conc.:	N.D.
Prepared Date:	9/11/97
Analyzed Date:	9/11/97
Instrument I.D.#:	MTJA3
Conc. Spiked:	50 µg/L
Result:	42
MS % Recovery:	84
Dup. Result:	47
MSD % Recov.:	94
RPD:	11
RPD Limit:	0-20

LCS #:	BLK091197
Prepared Date:	9/11/97
Analyzed Date:	9/11/97
Instrument I.D.#:	MTJA3
Conc. Spiked:	50 µg/L
LCS Result:	52
LCS % Recov.:	104

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

SEQUOIA ANALYTICAL

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Matrix: Liquid
Work Order #: 9709249 03

Reported: Sep 24, 1997

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes	Gas
QC Batch#:	GC091297BTEX06A	GC091297BTEX06A	GC091297BTEX06A	GC091297BTEX06A	GC-01208BTEX06A
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. Porter	A. Porter	A. Porter	A. Porter	A. Porter
MS/MSD #:	970935902	970935902	970935902	970935902	970935902
Sample Conc.:	N.D.	N.D.	N.D.	N.D.	N.D.
Prepared Date:	9/12/97	9/12/97	9/12/97	9/12/97	9/12/97
Analyzed Date:	9/12/97	9/12/97	9/12/97	9/12/97	9/12/97
Instrument I.D.#:	GCHP6	GCHP6	GCHP6	GCHP6	GCHP6
Conc. Spiked:	10 µg/L	10 µg/L	10 µg/L	30 µg/L	60 µg/L
Result:	9.8	10	9.9	30	62
MS % Recovery:	98	100	99	100	103
Dup. Result:	10	10	10	30	65
MSD % Recov.:	100	100	10	100	108
RPD:	2.0	0.0	1.0	0.0	4.7
RPD Limit:	0-25	0-25	0-25	0-25	0-25
LCS #:	BLK091297	BLK091297	BLK091297	BLK091297	BLK091297
Prepared Date:	9/12/97	9/12/97	9/12/97	9/12/97	9/12/97
Analyzed Date:	9/12/97	9/12/97	9/12/97	9/12/97	9/12/97
Instrument I.D.#:	GCHP6	GCHP6	GCHP6	GCHP6	GCHP6
Conc. Spiked:	10 µg/L	10 µg/L	10 µg/L	30 µg/L	60 µg/L
LCS Result:	9.6	9.8	9.7	28	61
LCS % Recov.:	96	98	97	93	102
MS/MSD Control Limits	60-140	60-140	60-140	60-140	60-140
LCS Control Limits	70-130	70-130	70-130	70-130	70-130

SEQUOIA ANALYTICAL

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

Client Project ID: Shell 2160 Otis St.
Matrix: Liquid
Work Order #: 9709249 22

Reported: Sep 24, 1997

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes	Gas
QC Batch#:	GC091597BTEX07A	GC091597BTEX07A	GC091597BTEX07A	GC091597BTEX07A	GC-01208BTEX06A
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. Porter	A. Porter	A. Porter	A. Porter	A. Porter
MS/MSD #:	970922412	970922412	970922412	970922412	970922412
Sample Conc.:	N.D.	N.D.	N.D.	N.D.	N.D.
Prepared Date:	9/15/97	9/15/97	9/15/97	9/15/97	9/15/97
Analyzed Date:	9/15/97	9/15/97	9/15/97	9/15/97	9/15/97
Instrument I.D.#:	GCHP7	GCHP7	GCHP7	GCHP7	GCHP7
Conc. Spiked:	10 µg/L	10 µg/L	10 µg/L	30 µg/L	60 µg/L
Result:	9.2	8.8	8.6	26	55
MS % Recovery:	92	88	86	87	92
Dup. Result:	9.3	8.8	8.8	26	55
MSD % Recov.:	93	88	88	87	92
RPD:	1.1	0.0	2.3	0.0	0.0
RPD Limit:	0-25	0-25	0-25	0-25	0-25
LCS #:	BLK091597	BLK091597	BLK091597	BLK091597	BLK091597
Prepared Date:	9/15/97	9/15/97	9/15/97	9/15/97	9/15/97
Analyzed Date:	9/15/97	9/15/97	9/15/97	9/15/97	9/15/97
Instrument I.D.#:	GCHP7	GCHP7	GCHP7	GCHP7	GCHP7
Conc. Spiked:	10 µg/L	10 µg/L	10 µg/L	30 µg/L	60 µg/L
LCS Result:	9.0	8.5	8.5	25	54
LCS % Recov.:	90	85	85	83	90
MS/MSD Control Limits	60-140	60-140	60-140	60-140	60-140
LCS Control Limits	70-130	70-130	70-130	70-130	70-130

SEQUOIA ANALYTICAL

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

Client Project ID: Shell 2160 Otis St.
Matrix: Solid
Work Order #: 9709249 01, 02, 04-12, 17
Reported: Sep 24, 1997

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes	Gas
QC Batch#:	GC091597BTEXEXB	GC091597BTEXEXB	GC091597BTEXEXB	GC091597BTEXEXB	GC091597BTEXEXB
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. Porter	A. Porter	A. Porter	A. Porter	A. Porter
MS/MSD #:	970924918	970924918	970924918	970924918	970924918
Sample Conc.:	N.D.	N.D.	N.D.	N.D.	N.D.
Prepared Date:	9/15/97	9/15/97	9/15/97	9/15/97	9/15/97
Analyzed Date:	9/15/97	9/15/97	9/15/97	9/15/97	9/15/97
Instrument I.D.#:	GCHP22	GCHP22	GCHP22	GCHP22	GCHP22
Conc. Spiked:	0.20 mg/Kg	0.20 mg/Kg	0.20 mg/Kg	0.60 mg/Kg	1.2 mg/Kg
Result:	0.17	0.17	0.17	0.50	1.0
MS % Recovery:	85	85	85	83	83
Dup. Result:	0.16	0.16	0.16	0.47	1.0
MSD % Recov.:	80	80	80	76	83
RPD:	6.1	6.1	6.1	6.2	0.0
RPD Limit:	0-25	0-25	0-25	0-25	0-25
LCS #:	BLK091597	BLK091597	BLK091597	BLK091597	BLK091597
Prepared Date:	9/15/97	9/15/97	9/15/97	9/15/97	9/15/97
Analyzed Date:	9/15/97	9/15/97	9/15/97	9/15/97	9/15/97
Instrument I.D.#:	GCHP22	GCHP22	GCHP22	GCHP22	GCHP22
Conc. Spiked:	0.20 mg/Kg	0.20 mg/Kg	0.20 mg/Kg	0.60 mg/Kg	1.2 mg/Kg
LCS Result:	0.19	0.19	0.18	0.54	1.0
LCS % Recov.:	95	95	90	90	83
MS/MSD Control Limits	60-140	60-140	60-140	60-140	60-140
LCS Control Limits	70-130	70-130	70-130	70-130	70-130

SEQUOIA ANALYTICAL

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

Client Project ID: Shell 2160 Otis St.
Matrix: Solid
Work Order #: 9709249 18-22

Reported: Sep 24, 1997

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes	Gas
QC Batch#:	GC091597BTEXEXC	GC091597BTEXEXC	GC091597BTEXEXC	GC091597BTEXEXC	GC091597BTEXEXB
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. Porter	A. Porter	A. Porter	A. Porter	A. Porter
MS/MSD #:	970934207	970934207	970934207	970934207	970934207
Sample Conc.:	N.D.	N.D.	N.D.	N.D.	N.D.
Prepared Date:	9/15/97	9/15/97	9/15/97	9/15/97	9/15/97
Analyzed Date:	9/15/97	9/15/97	9/15/97	9/15/97	9/15/97
Instrument I.D.#:	GCHP22	GCHP22	GCHP22	GCHP22	GCHP22
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	0.17	0.17	0.49	1.0
MS % Recovery:	90	85	85	82	83
Dup. Result:	0.18	0.17	0.17	0.49	1.0
MSD % Recov.:	90	85	85	82	83
RPD:	0.0	0.0	0.0	0.0	0.0
RPD Limit:	0-25	0-25	0-25	0-25	0-25
LCS #:	BLK091597	BLK091597	BLK091597	BLK091597	BLK091597
Prepared Date:	9/15/97	9/15/97	9/15/97	9/15/97	9/15/97
Analyzed Date:	9/15/97	9/15/97	9/15/97	9/15/97	9/15/97
Instrument I.D.#:	GCHP22	GCHP22	GCHP22	GCHP22	GCHP22
Conc. Spiked:	0.20 mg/Kg	0.20 mg/Kg	0.20 mg/Kg	0.60 mg/Kg	1.2 mg/Kg
LCS Result:	0.19	0.19	0.18	0.52	1.0
LCS % Recov.:	95	95	90	87	83
MS/MSD Control Limits	60-140	60-140	60-140	60-140	60-140
LCS Control Limits	70-130	70-130	70-130	70-130	70-130

SEQUOIA ANALYTICAL

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Client Project ID: Shell 2160 Otis St.
Matrix: Solid
Work Order #: 9709249 19, 21

Reported: Sep 24, 1997

QUALITY CONTROL DATA REPORT

Analyte:	1,1-Dichloro-ethene	Trichloro-ethene	Chloro-Benzene
QC Batch#:	GC0910978010EXA	GC0910978010EXA	GC0910978010EXA
Analy. Method:	EPA 8010	EPA 8010	EPA 8010
Prep. Method:	EPA 5030	EPA 5030	EPA 5030
Analyst:	R. Bou-Salman	R. Bou-Salman	R. Bou-Salman
MS/MSD #:	970937601	970937601	970937601
Sample Conc.:	N.D.	N.D.	N.D.
Prepared Date:	9/10/97	9/10/97	9/10/97
Analyzed Date:	9/10/97	9/10/97	9/10/97
Instrument I.D.#:	GCHP8	GCHP8	GCHP8
Conc. Spiked:	50 µg/Kg	50 µg/Kg	50 µg/Kg
Dilution Factor:	1	1	1
Result:	43	43	39
MS % Recovery:	86	86	78
Dup. Result:	41	55	44
MSD % Recov.:	82	110	88
RPD:	4.8	24	12
RPD Limit:	0-25	0-25	0-25

LCS #:	BLK091097	BLK091097	BLK091097
Prepared Date:	9/10/97	9/10/97	9/10/97
Analyzed Date:	9/10/97	9/10/97	9/10/97
Instrument I.D.#:	GCHP8	GCHP8	GCHP8
Conc. Spiked:	50 µg/Kg	50 µg/Kg	50 µg/Kg
LCS Result:	46	49	48
LCS % Recov.:	92	98	96

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

SEQUOIA ANALYTICAL

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Attention: Paul Waite

Client Project ID: Shell 2160 Otis St.
Matrix: Liquid
Work Order #: 9709249 22
Reported: Sep 24, 1997

QUALITY CONTROL DATA REPORT

Analyte:	1,1-Dichloro-ethene	Trichloro-ethene	Chloro-Benzene
QC Batch#:	GC091097801024A	GC091097801024A	GC091097801024A
Analy. Method:	EPA 8010	EPA 8010	EPA 8010
Prep. Method:	EPA 5030	EPA 5030	EPA 5030
Analyst:	J. Minkel	J. Minkel	J. Minkel
MS/MSD #:	970918007	970918007	970918007
Sample Conc.:	N.D.	N.D.	N.D.
Prepared Date:	9/10/97	9/10/97	9/10/97
Analyzed Date:	9/10/97	9/10/97	9/10/97
Instrument I.D.#:	GCHP24	GCHP24	GCHP24
Conc. Spiked:	25 µg/L	25 µg/L	25 µg/L
Dilution Factor:	1	1	1
Result:	21	19	24
MS % Recovery:	84	76	96
Dup. Result:	20	21	23
MSD % Recov.:	80	84	92
RPD:	4.9	10	4.3
RPD Limit:	0-25	0-25	0-25

LCS #:	BLK091297	BLK091297	BLK091297
Prepared Date:	9/12/97	9/12/97	9/12/97
Analyzed Date:	9/12/97	9/12/97	9/12/97
Instrument I.D.#:	GCHP24	GCHP24	GCHP24
Conc. Spiked:	25 µg/L	25 µg/L	25 µg/L
LCS Result:	19	19	21
LCS % Recov.:	76	76	84

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

SEQUOIA ANALYTICAL

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Attention: Paul Waite

Client Project ID: Shell 2160 Otis St.
Matrix: Solid
Work Order #: 9709249 18-21

Reported: Sep 24, 1997

QUALITY CONTROL DATA REPORT

Analyte:	Diesel
QC Batch#:	GC0909970HBPEXA
Analy. Method:	EPA 8015M
Prep. Method:	EPA 3550/DHS
Analyst:	B. Sullivan
MS/MSD #:	970924918
Sample Conc.:	N.D.
Prepared Date:	9/9/97
Analyzed Date:	9/10/97
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 #:	BLK090997
Prepared Date:	9/9/97
Analyzed Date:	9/10/97
Instrument I.D.#:	GCHP4B
Conc. Spiked:	25 mg/Kg
LCS Result:	22
LCS % Recov.:	88

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

SEQUOIA ANALYTICAL

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Project Manager

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Sequoia Analytical

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

Client Project ID: Shell 2160 Otis St.
Matrix: Liquid
Work Order #: 9709249 22

Reported: Sep 24, 1997

QUALITY CONTROL DATA REPORT

Analyte:	Diesel
QC Batch#:	GC0910970HBPEXZ
Analy. Method:	EPA 8015M
Prep. Method:	EPA 3520
Analyst:	G. Fish
MS/MSD #:	970930208
Sample Conc.:	78
Prepared Date:	9/10/97
Analyzed Date:	9/12/97
Instrument I.D.#:	GCHP4B
Conc. Spiked:	1000 µg/L
Result:	990
MS % Recovery:	91
Dup. Result:	890
MSD % Recov.:	81
RPD:	11
RPD Limit:	0-50

LCS #:	BLK091097
Prepared Date:	9/10/97
Analyzed Date:	9/12/97
Instrument I.D.#:	GCHP4B
Conc. Spiked:	1000 µg/L
LCS Result:	800
LCS % Recov.:	80

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

SEQUOIA ANALYTICAL

Richard Herling
Project Manager

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

Client Project ID: Shell 2160 Otis St.
Matrix: Solid
Work Order #: 9709249 19

Reported: Sep 24, 1997

QUALITY CONTROL DATA REPORT

Analyte:	Phenol	2-Chlorophenol	1,4-Dichloro-benzene	N-Nitroso-Di-N-propylamine
QC Batch#:	MS0909978270EXB	MS0909978270EXB	MS0909978270EXB	MS0909978270EXB
Analy. Method:	EPA 8270	EPA 8270	EPA 8270	EPA 8270
Prep. Method:	EPA 3550	EPA 3550	EPA 3550	EPA 3550
Analyst:	B. Pitamah	B. Pitamah	B. Pitamah	B. Pitamah
MS/MSD #:	970924919	970924919	970924919	970924919
Sample Conc.:	N.D.	N.D.	N.D.	N.D.
Prepared Date:	9/9/97	9/9/97	9/9/97	9/9/97
Analyzed Date:	9/10/97	9/10/97	9/10/97	9/10/97
Instrument I.D.#:	H5	H5	H5	H5
Conc. Spiked:	3300 µg/Kg	3300 µg/Kg	3300 µg/Kg	3300 µg/Kg
Result:	2070	2030	1920	1870
MS % Recovery:	63	62	58	57
Dup. Result:	634	611	562	589
MSD % Recov.:	19	19	17	18
RPD:	106	107	109	104
RPD Limit:	0-40	0-40	0-40	0-40
LCS #:	SB090997	SB090997	SB090997	SB090997
Prepared Date:	9/10/97	9/10/97	9/10/97	9/10/97
Analyzed Date:	9/10/97	9/10/97	9/10/97	9/10/97
Instrument I.D.#:	H5	H5	H5	H5
Conc. Spiked:	3300 µg/Kg	3300 µg/Kg	3300 µg/Kg	3300 µg/Kg
LCS Result:	2050	1970	1860	1880
LCS % Recov.:	62	60	56	57
MS/MSD LCS Control Limits	26-90	25-102	28-104	41-128

SEQUOIA ANALYTICAL

Richard Herling
Project Manager

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

Client Project ID: Shell 2160 Otis St.
Matrix: Solid
Work Order #: 9709249 19

Reported: Sep 24, 1997

QUALITY CONTROL DATA REPORT

Analyte:	1,2,4-Trichloro-benzene	4-Chloro-3-Methylphenol	Acenaphthene	4-Nitrophenol
QC Batch#:	MS0909978270EXB	MS0909978270EXB	MS0909978270EXB	MS0909978270EXB
Analy. Method:	EPA 8270	EPA 8270	EPA 8270	EPA 8270
Prep. Method:	EPA 3550	EPA 3550	EPA 3550	EPA 3550
Analyst:	B. Pitamah	B. Pitamah	B. Pitamah	B. Pitamah
MS/MSD #:	970924919	970924919	970924919	970924919
Sample Conc.:	N.D.	N.D.	N.D.	N.D.
Prepared Date:	9/9/97	9/9/97	9/9/97	9/9/97
Analyzed Date:	9/10/97	9/10/97	9/10/97	9/10/97
Instrument I.D.#:	H5	H5	H5	H5
Conc. Spiked:	3300 µg/Kg	3300 µg/Kg	3300 µg/Kg	3300 µg/Kg
Result:	2550	1830	2130	2070
MS % Recovery:	77	55	65	63
Dup. Result:	731	578	688	644
MSD % Recov.:	22	18	21	20
RPD:	111	104	102	105
RPD Limit:	0-40	0-40	0-40	0-40
LCS #:	SB090997	SB090997	SB090997	SB090997
Prepared Date:	9/10/97	9/10/97	9/10/97	9/10/97
Analyzed Date:	9/10/97	9/10/97	9/10/97	9/10/97
Instrument I.D.#:	H5	H5	H5	H5
Conc. Spiked:	3300 µg/Kg	3300 µg/Kg	3300 µg/Kg	3300 µg/Kg
LCS Result:	2510	1870	2050	2090
LCS % Recov.:	76	57	62	63
MS/MSD LCS Control Limits	38-107	26-103	31-137	11-114

SEQUOIA ANALYTICAL

Richard Herling
Project Manager

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

Client Project ID: Shell 2160 Otis St.
Matrix: Solid
Work Order #: 9709249 19

Reported: Sep 24, 1997

QUALITY CONTROL DATA REPORT

Analyte:	2,4-Dinitro-toluene	Pentachloro-phenol	Pyrene
QC Batch#:	MS0909978270EXB	MS0909978270EXB	MS0909978270EXB
Analy. Method:	EPA 8270	EPA 8270	EPA 8270
Prep. Method:	EPA 3550	EPA 3550	EPA 3550
Analyst:	B. Pitamah	B. Pitamah	B. Pitamah
MS/MSD #:	970924919	970924919	970924919
Sample Conc.:	N.D.	N.D.	N.D.
Prepared Date:	9/9/97	9/9/97	9/9/97
Analyzed Date:	9/10/97	9/10/97	9/10/97
Instrument I.D.#:	H5	H5	H5
Conc. Spiked:	3300 µg/Kg	3300 µg/Kg	3300 µg/Kg
Result:	1780	1880	1850
MS % Recovery:	54	57	56
Dup. Result:	593	409	667
MSD % Recov.:	18	12	20
RPD:	100	129	94
RPD Limit:	0-40	0-40	0-40
LCS #:	SB090997	SB090997	SB090997
Prepared Date:	9/10/97	9/10/97	9/10/97
Analyzed Date:	9/10/97	9/10/97	9/10/97
Instrument I.D.#:	H5	H5	H5
Conc. Spiked:	3300 µg/Kg	3300 µg/Kg	3300 µg/Kg
LCS Result:	1800	1610	1700
LCS % Recov.:	55	49	52
MS/MSD LCS Control Limits	28-89	17-109	35-142

SEQUOIA ANALYTICAL

Richard Herling
Project Manager

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Oakland, CA 94608
Attention: Paul Waite

Client Project ID: Shell 2160 Otis St.
Matrix: Solid
Work Order #: 9709249 21

Reported: Sep 24, 1997

QUALITY CONTROL DATA REPORT

Analyte:	Phenol	2-Chlorophenol	1,4-Dichloro-benzene	N-Nitroso-Di-N-propylamine
QC Batch#:	MS0909978270EXA	MS0909978270EXA	MS0909978270EXA	MS0909978270EXA
Analy. Method:	EPA 8270	EPA 8270	EPA 8270	EPA 8270
Prep. Method:	EPA 3550	EPA 3550	EPA 3550	EPA 3550
Analyst:	B. Pitamah	B. Pitamah	B. Pitamah	B. Pitamah
MS/MSD #:	970917401	970917401	970917401	970917401
Sample Conc.:	N.D.	N.D.	N.D.	N.D.
Prepared Date:	9/9/97	9/9/97	9/9/97	9/9/97
Analyzed Date:	9/9/97	9/9/97	9/9/97	9/9/97
Instrument I.D.#:	H5	H5	H5	H5
Conc. Spiked:	3300 µg/Kg	3300 µg/Kg	3300 µg/Kg	3300 µg/Kg
Result:	1460	1440	1220	1340
MS % Recovery:	44	44	37	41
Dup. Result:	1790	1730	1510	1680
MSD % Recov.:	54	52	46	51
RPD:	20	18	21	23
RPD Limit:	0-40	0-40	0-40	0-40
LCS #:	SB090997	SB090997	SB090997	SB090997
Prepared Date:	9/9/97	9/9/97	9/9/97	9/9/97
Analyzed Date:	9/9/97	9/9/97	9/9/97	9/9/97
Instrument I.D.#:	H5	H5	H5	H5
Conc. Spiked:	3300 µg/Kg	3300 µg/Kg	3300 µg/Kg	3300 µg/Kg
LCS Result:	2100	1990	1820	1900
LCS % Recov.:	64	60	55	58
MS/MSD LCS Control Limits	26-90	25-102	28-104	41-126

SEQUOIA ANALYTICAL

Richard Herling
Project Manager

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

Client Project ID: Shell 2160 Otis St.
Matrix: Solid
Work Order #: 9709249 21

Reported: Sep 24, 1997

QUALITY CONTROL DATA REPORT

Analyte:	1,2,4-Trichloro-benzene	4-Chloro-3-Methylphenol	Acenaphthene	4-Nitrophenol
QC Batch#:	MS0909978270EXA	MS0909978270EXA	MS0909978270EXA	MS0909978270EXA
Analy. Method:	EPA 8270	EPA 8270	EPA 8270	EPA 8270
Prep. Method:	EPA 3550	EPA 3550	EPA 3550	EPA 3550
Analyst:	B. Pitamah	B. Pitamah	B. Pitamah	B. Pitamah
MS/MSD #:	970917401	970917401	970917401	970917401
Sample Conc.:	N.D.	N.D.	N.D.	N.D.
Prepared Date:	9/9/97	9/9/97	9/9/97	9/9/97
Analyzed Date:	9/9/97	9/9/97	9/9/97	9/9/97
Instrument I.D.#:	H5	H5	H5	H5
Conc. Spiked:	3300 µg/Kg	3300 µg/Kg	3300 µg/Kg	3300 µg/Kg
Result:	1650	1400	1550	1120
MS % Recovery:	50	42	47	34
Dup. Result:	2030	1710	1820	1500
MSD % Recov.:	62	52	55	45
RPD:	21	20	16	29
RPD Limit:	0-40	0-40	0-40	0-40
LCS #:	SB090997	SB090997	SB090997	SB090997
Prepared Date:	9/9/97	9/9/97	9/9/97	9/9/97
Analyzed Date:	9/9/97	9/9/97	9/9/97	9/9/97
Instrument I.D.#:	H5	H5	H5	H5
Conc. Spiked:	3300 µg/Kg	3300 µg/Kg	3300 µg/Kg	3300 µg/Kg
LCS Result:	2390	1870	2020	2040
LCS % Recov.:	72	57	61	62
MS/MSD LCS Control Limits	38-107	26-103	31-137	11-114

SEQUOIA ANALYTICAL

Richard Herling
Project Manager

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Cambria Environmental Tech.
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Oakland, CA 94608
Attention: Paul Waite

Client Project ID: Shell 2160 Otis St.
Matrix: Solid
Work Order #: 9709249 21

Reported: Sep 24, 1997

QUALITY CONTROL DATA REPORT

Analyte:	2,4-Dinitro-toluene	Pentachloro-phenol	Pyrene
QC Batch#:	MS0909978270EXA	MS0909978270EXA	MS0909978270EXA
Analy. Method:	EPA 8270	EPA 8270	EPA 8270
Prep. Method:	EPA 3550	EPA 3550	EPA 3550
Analyst:	B. Pitamah	B. Pitamah	B. Pitamah
MS/MSD #:	970917401	970917401	970917401
Sample Conc.:	N.D.	N.D.	N.D.
Prepared Date:	9/9/97	9/9/97	9/9/97
Analyzed Date:	9/9/97	9/9/97	9/9/97
Instrument I.D.#:	H5	H5	H5
Conc. Spiked:	3300 µg/Kg	3300 µg/Kg	3300 µg/Kg
Result:	1320	786	1370
MS % Recovery:	40	24	42
Dup. Result:	1610	1100	1500
MSD % Recov.:	49	33	45
RPD:	20	33	9.0
RPD Limit:	0-40	0-40	0-40
LCS #:	SB090997	SB090997	SB090997
Prepared Date:	9/9/97	9/9/97	9/9/97
Analyzed Date:	9/9/97	9/9/97	9/9/97
Instrument I.D.#:	H5	H5	H5
Conc. Spiked:	3300 µg/Kg	3300 µg/Kg	3300 µg/Kg
LCS Result:	1890	1950	1840
LCS % Recov.:	57	59	56
MS/MSD LCS Control Limits	28-89	17-109	35-142

SEQUOIA ANALYTICAL

Richard Herling
Project Manager

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Attention: Paul Waite

Client Project ID: Shell 2160 Otis St.
Matrix: Liquid
Work Order #: 9709249 22

Reported: Sep 24, 1997

QUALITY CONTROL DATA REPORT

Analyte:	Phenol	2-Chlorophenol	1,4-Dichloro-benzene	N-Nitroso-Di-N-propylamine
QC Batch#:	MS0911978270EXB	MS0911978270EXB	MS0911978270EXB	MS0911978270EXB
Analy. Method:	EPA 8270	EPA 8270	EPA 8270	EPA 8270
Prep. Method:	EPA 3510	EPA 3510	EPA 3510	EPA 3510
Analyst:	B. Pitamah	B. Pitamah	B. Pitamah	B. Pitamah
MS/MSD #:	970921004	970921004	970921004	970921004
Sample Conc.:	N.D.	N.D.	N.D.	N.D.
Prepared Date:	9/11/97	9/11/97	9/11/97	9/11/97
Analyzed Date:	9/13/97	9/13/97	9/13/97	9/13/97
Instrument I.D.#:	H5	H5	H5	H5
Conc. Spiked:	200 µg/L	200 µg/L	200 µg/L	200 µg/L
Result:	72	145	135	164
MS % Recovery:	36	73	68	82
Dup. Result:	92	153	146	158
MSD % Recov.:	46	77	73	79
RPD:	24	5.4	7.8	3.7
RPD Limit:	0-30	0-30	0-30	0-30
LCS #:	WB091197	WB091197	WB091197	WB091197
Prepared Date:	9/11/97	9/11/97	9/11/97	9/11/97
Analyzed Date:	9/12/97	9/12/97	9/12/97	9/12/97
Instrument I.D.#:	H5	H5	H5	H5
Conc. Spiked:	200 µg/L	200 µg/L	200 µg/L	200 µg/L
LCS Result:	71	122	104	138
LCS % Recov.:	36	61	52	69
MS/MSD LCS Control Limits	12-110	27-123	36-97	41-116

SEQUOIA ANALYTICAL

Richard Herling
Project Manager

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Cambria Environmental Tech.
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Attention: Paul Waite

Client Project ID: Shell 2160 Otis St.
Matrix: Liquid
Work Order #: 9709249 22

Reported: Sep 24, 1997

QUALITY CONTROL DATA REPORT

Analyte:	1,2,4-Trichloro-benzene	4-Chloro-3-Methylphenol	Acenaphthene	4-Nitrophenol
QC Batch#:	MS0911978270EXB	MS0911978270EXB	MS0911978270EXB	MS0911978270EXB
Analy. Method:	EPA 8270	EPA 8270	EPA 8270	EPA 8270
Prep. Method:	EPA 3510	EPA 3510	EPA 3510	EPA 3510
Analyst:	B. Pitamah	B. Pitamah	B. Pitamah	B. Pitamah
MS/MSD #:	970921004	970921004	970921004	970921004
Sample Conc.:	N.D.	N.D.	N.D.	N.D.
Prepared Date:	9/11/97	9/11/97	9/11/97	9/11/97
Analyzed Date:	9/13/97	9/13/97	9/13/97	9/13/97
Instrument I.D.#:	H5	H5	H5	H5
Conc. Spiked:	200 µg/L	200 µg/L	200 µg/L	200 µg/L
Result:	183	162	190	74
MS % Recovery:	92	81	95	37
Dup. Result:	188	187	193	79
MSD % Recov.:	94	94	97	40
RPD:	2.7	14	1.6	6.5
RPD Limit:	0-30	0-30	0-30	0-30
LCS #:	WB091197	WB091197	WB091197	WB091197
Prepared Date:	9/11/97	9/11/97	9/11/97	9/11/97
Analyzed Date:	9/12/97	9/12/97	9/12/97	9/12/97
Instrument I.D.#:	H5	H5	H5	H5
Conc. Spiked:	200 µg/L	200 µg/L	200 µg/L	200 µg/L
LCS Result:	130	119	118	51
LCS % Recov.:	65	60	59	26
MS/MSD LCS Control Limits	39-98	23-97	46-118	10-80

SEQUOIA ANALYTICAL

Richard Herling
Project Manager

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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.
1144 65th St., Ste. C
Oakland, CA 94608
Attention: Paul Waite

Client Project ID: Shell 2160 Otis St.
Matrix: Liquid
Work Order #: 9709249 22

Reported: Sep 24, 1997

QUALITY CONTROL DATA REPORT

Analyte:	2,4-Dinitro-toluene	Pentachloro-phenol	Pyrene
QC Batch#:	MS0911978270EXB	MS0911978270EXB	MS0911978270EXB
Analy. Method:	EPA 8270	EPA 8270	EPA 8270
Prep. Method:	EPA 3510	EPA 3510	EPA 3510
Analyst:	B. Pitamah	B. Pitamah	B. Pitamah
MS/MSD #:	970921004	970921004	970921004
Sample Conc.:	N.D.	N.D.	N.D.
Prepared Date:	9/11/97	9/11/97	9/11/97
Analyzed Date:	9/13/97	9/13/97	9/13/97
Instrument I.D.#:	H5	H5	H5
Conc. Spiked:	200 µg/L	200 µg/L	200 µg/L
Result:	145	182	141
MS % Recovery:	73	91	71
Dup. Result:	172	193	143
MSD % Recov.:	86	97	72
RPD:	17	5.9	1.4
RPD Limit:	0-30	0-30	0-30
LCS #:	WB091197	WB091197	WB091197
Prepared Date:	9/11/97	9/11/97	9/11/97
Analyzed Date:	9/12/97	9/12/97	9/12/97
Instrument I.D.#:	H5	H5	H5
Conc. Spiked:	200 µg/L	200 µg/L	200 µg/L
LCS Result:	129	142	135
LCS % Recov.:	65	71	68
MS/MSD LCS Control Limits	24-96	9-103	26-127

SEQUOIA ANALYTICAL

Richard Herling
Project Manager

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

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

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.
1144 65th St., Ste. C
Oakland, CA 94608
Attention: Paul Waite

Client Project ID: Shell 2160 Otis St.
Matrix: Liquid
Work Order #: 9709249 19, 21

Reported: Sep 24, 1997

QUALITY CONTROL DATA REPORT

Analyte:	Total Recoverable Petroleum Hydrocarbons
QC Batch#:	IN090997552000A
Analy. Method:	SM 5520EF
Prep. Method:	

Analyst:	T. Vo
Prepared Date:	9/15/97
Analyzed Date:	9/15/97
Instrument I.D.#:	MANUAL
Conc. Spiked:	150 mg/L
Result:	4000
MS % Recovery:	3000
Dup. Result:	3000
MSD % Recov.:	2000
RPD:	29
RPD Limit:	0-30

LCS #:	LCS091597
Prepared Date:	9/15/97
Analyzed Date:	9/15/97
Instrument I.D.#:	MANUAL
Conc. Spiked:	150 mg/L
LCS Result:	110
LCS % Recov.:	73

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

SEQUOIA ANALYTICAL

Richard Herling
Project Manager

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

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

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.
1144 65th St., Ste. C
Oakland, CA 94608
Attention: Paul Waite

Client Project ID: Shell 2160 Otis St.
Matrix: Liquid
Work Order #: 9709249 22

Reported: Sep 24, 1997

QUALITY CONTROL DATA REPORT

Analyte: Total Recoverable Petroleum Hydrocarbons
QC Batch#: IN091097552000A
Analy. Method: SM 5520BF
Prep. Method:

Analyst: T. Vo

Prepared Date: 9/10/97
Analyzed Date: 9/10/97
Instrument I.D.#: MANUAL
Conc. Spiked: 10 mg/L

Result: 6.0
MS % Recovery: 60

Dup. Result: 8.0
MSD % Recov.: 80

RPD: 29
RPD Limit: 0-30

LCS #: LCS091097

Prepared Date: 9/10/97
Analyzed Date: 9/10/97
Instrument I.D.#: MANUAL
Conc. Spiked: 10 mg/L

LCS Result: 8.0
LCS % Recov.: 80

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

SEQUOIA ANALYTICAL

Richard Herling
Project Manager

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

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

SHELL OIL COMPANY
RETAIL ENVIRONMENTAL ENGINEERING - WEST

CHAIN OF CUSTODY RECORD
Serial No:

Date: 9/4/97
Page of

Site Address: 2160 Otis St.
WIC#: 204-0072-0502
Shell Engineer: Lisa Maglines
Phone No.:
Fax #:
Consultant Name & Address: CAMBRIA ENVIRONMENTAL
1144 65th St. Suite C, Oakland, CA 94608
Consultant Contact: Paul Waite
Phone No.: 510 420-0700
Fax #: 420-9170
Comments:
Sampled by: Maureen Feineman
Printed Name: Maureen Feineman

Analysis Required 9709249

LAB: Sequoia

CHECK ONE (1) BOX ONLY	CT/DT	TURN AROUND TIME
G.W. Monitoring [ ]	4461	24 hours [ ]
Site Investigation [X]	4441	48 hours [ ]
Soil Classify/Disposal [ ]	4442	16 days [X] (Normal)
Water Classify/Disposal [ ]	4443	Other [ ]
Soil/Air Rem. or Sys. O & M [ ]	4452	NOTE: Notify Lab as soon as Possible of 24/48 hrs. TAT.
Water Rem. or Sys. O & M [ ]	4453	
Other [ ]		

UST AGENCY: Alameda County DEH

	Sample ID	Date	Sludge	Soil	Water	Air	No. of conts.	TPH (EPA 8015 Mod. Gas)	TPH (EPA 8015 Mod. Diesel)	BTEX (EPA 8020/602)	Volatile Organics (EPA 8240)	Test for Disposal	Combination TPH 8015 & BTEX 8020 MTBE			Asbestos	Container Size	Preparation Used	Composite Y/N	MATERIAL DESCRIPTION	SAMPLE CONDITION/ COMMENTS
1	B-North	9/4	1:31	X			1						X							Add Pb to All 3	
2	C-North	9/4	1:34	X			1						X							B-N	
3	TPW-1	9/4	1:57		X		4						X							--N	

→ 1 project

Relinquished By (signature):	Printed Name:	Date:	Received (signature):	Printed Name:	Time:
Maureen Feineman	Maureen Feineman	Date: 9/4/97 Time: 8:33	[signature]	PENAFLOR	Time: 0755
[signature]	PENAFLOR	Date: 9/5/97 Time:	[signature]		Date: Time:
		Date: Time:	M. S.	M. Sorrey	Date: 9-5-97 Time: 12:33

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: 9/4/97
Page ___ of ___

Site Address: 2160 Otis Alameda

WIC#: 204-0072-0502

Shell Engineer: Lisa Maglines
Phone No.:
Fax #:

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

Consultant Contact: Paul Waite
Phone No.: 510 420-0700
Fax #: 420-9170

Comments:

Sampled by: ~~Paul Waite~~ Maureen Fineman

Printed Name: Maureen Fineman

Analysis Required 9709249

LAB: Sequoia

CHECK ONE (1) BOX ONLY	CT/DT
G.W. Monitoring [ ]	4461
Site Investigation [X]	4441
Soil Classify/Disposal [ ]	4442
Water Classify/Disposal [ ]	4443
Soil/Air Rem. or Sys. O & M [ ]	4452
Water Rem. or Sys. O & M [ ]	4453
Other [ ]	

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

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

UST AGENCY: Alameda County

Sample ID	Date	Sludge	Soil	Water	Air	No. of conts.	TPH (EPA 8015 Mod. Gas)	TPH (EPA 8015 Mod. Diesel)	BTEX (EPA 8020/602)	Volatile Organics (EPA 8240)	Test for Disposal	Combination TPH 8015 & BTEX 8020 + MTBE	Total Lead		Asbestos	Container Size	Preparation Used	Composite Y/N	MATERIAL DESCRIPTION	SAMPLE CONDITION/ COMMENTS
4 D-1	9/4	2:08	X			1						X	X							
5 D-2	9/4	2:10	X			1						↓	↓							
6 D-3	9/4	2:13	X			1						↓	↓							
7 D-4	9/4	2:15	X			1						↓	↓							
8 D-5	9/4	2:22	X			1						↓	↓							
9 D-6	9/4	2:24	X			1						↓	↓							

Relinquished By (signature):	Printed Name:	Date/Time:	Received (signature):	Printed Name:	Date/Time:
Maureen Fineman	Maureen Fineman	Date: 9/5/97 Time: 8:45	[signature]	PENAFLOR	Date: 9/5/97 Time: 0955
[signature]	PENAFLOR	Date: 9/5/97 Time:			Date: Time:
		Date: Time:	mS	M. Sainas	Date: 9-5-97 Time: [illegible]

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

Rev. 1/12/95 | Shell Oil Chain of Custody

SHELL OIL COMPANY
RETAIL ENVIRONMENTAL ENGINEERING - WEST

CHAIN OF CUSTODY RECORD
Serial No: _____

Date: 9/4/97
Page of

Site Address: 2160 Otis St. Alameda
WIC#: 204-0072-0502
Shell Engineer: Lisa Maglines
Phone No.: Fax #:
Consultant Name & Address: CAMBRIA ENVIRONMENTAL 1144 65th St. Suite C, Oakland, CA 94608
Consultant Contact: Paul White
Phone No.: 510 420-0700 Fax #: 420-9170
Comments:
Sampled by: Maureen Feineman
Printed Name: Maureen Feineman

Analysis Required 9709249

LAB: Sequoia

CHECK ONE (1) BOX ONLY | C1/D1
- G.W. Monitoring [ ] 4461
- Site Investigation [X] 4441
- Soil Classify/Disposal [ ] 4442
- Water Classify/Disposal [ ] 4443
- Soil/Air Rem. or Sys. O & M [ ] 4452
- Water Rem. or Sys. O & M [ ] 4453
- Other [ ]

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

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

UST AGENCY: Alameda County DEH

	Sample ID	Date	Sludge	Soil	Water	Air	No. of conts.	TPH (EPA 8015 Mod. Gas)	TPH (EPA 8015 Mod. Diesel)	BTEX (EPA 8020/602)	Volatile Organics (EPA 8240)	Test for Disposal	Combination TPH 8015 & BTEX 8020	MTBE 8020	Total Lead	Asbestos	Container Size	Preparation Used	Composite Y/N	MATERIAL DESCRIPTION	SAMPLE CONDITION/ COMMENTS
10	C-South	9/4	1:00	X			1						X	X	X						
11	B-South		1:07	X			1														
12	A-South		1:10	X			1														
13	C-NE		1:15	X			1														
14	C-SE		1:18	X			1														
15	A-SE		1:22	X			1														
16	A-NE		1:24	X			1														
17	A-North	V	1:28	X			1						V	V	V						

HOLD →
(LOGIN W/ TEST CODE "HOLD")
C-NE A-SE
C-SE A-NE

· put in comments
"run only 5 hits on A-N, A-S, B-N, B-S, C-N, C-S"

Relinquished By (signature):	Printed Name: Maureen Feineman	Date: 9/5/97 Time: 0935	Received (signature):
Relinquished By (signature):	Printed Name: PENAFLOR	Date: 9/8/97 Time:	Received (signature):
Relinquished By (signature):	Printed Name:	Date: Time:	Received (signature):

Printed Name:		Time: 0755
Printed Name:		Date: Time:
Printed Name: M. Sousa		Date: 9/8/97 Time: 1233

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: 9/4/97
Page ___ of ___

Site Address: 2160 Otis Alameda

WIC#: 204-0072-0502

Shell Engineer: Lisa Maglines | Phone No.: | Fax #:

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

Consultant Contact: Paul Waite | Phone No.: 510 420-0700 | Fax #: 420-9170

Comments:

Sampled by: Maureen Feineman

Printed Name: Maureen Feineman

Analysis Required — 909249

LAB: Sequoia

CHECK ONE (1) BOX ONLY		CI/DI
G.W. Monitoring	☐	4461
Site Investigation	☒	4441
Soil Classify/Disposal	☐	4442
Water Classify/Disposal	☐	4443
Soil/Air Rem. or Sys. O & M	☐	4452
Water Rem. or Sys. O & M	☐	4453
Other	☐	

TURN AROUND TIME: 24 hours ☐ | 48 hours ☐ | 15 days ☒ (Normal) | Other ☐ _____

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

SP 5 12 33

UST AGENCY: Alameda County DEH

Sample ID	Date	Sludge	Soil	Water	Air	No. of conts.	TPH (EPA 8015 Mod. Gas)	TPH (EPA 8015 Mod. Diesel)	BTEX (EPA 8020/602)	Volatile Organics (EPA 8240)	Test for Disposal	Combination TPH 8015 & BTEX 8020	Oil & Grease	Chlorinated Solvents 8010	Total Metals CAM 17	Preparation Used	Composite Y/N	MATERIAL DESCRIPTION	SAMPLE CONDITION/ COMMENTS
8 Hoist-2	9/4	1:44	X			1		X	X										
9 OWS-1	9/4	1:47	X			1	X	X	X				X	X	X	X			
20 Hoist-1	9/4	1:49	X			1		X	X										
21 WO-1	9/4	1:41	X			1	X	X	X				X	X	X	X			
22 WO	9/4	2:08		X		6	X	X	X				X	X	X	X			

Relinquished By (signature): Maureen Feineman	Printed Name: Maureen Feineman	Date: 9/4/97 Time: 1935	Received (signature):	Printed Name: PENAFLOR	Date: 9/5/97 Time: 0935
Relinquished By (signature):	Printed Name: PENAFLOR	Date: 9/4/97 Time:	Received (signature):	Printed Name:	Date: Time:
Relinquished By (signature):	Printed Name:	Date: Time:	Received (signature): MS	Printed Name: M. Stokes	Date: 9/5/97 Time: 1283

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

Rev. 1/11/93

Bill Of Lading or Custody

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
1144 65th St. Suite C
Oakland, CA 94608
Attention: Paul Waite

Client Proj. ID: Shell 2160 Otis St.

Lab Proj. ID: 9709249

Received: 09/05/97

Reported: 09/19/97

LABORATORY NARRATIVE

In order to properly interpret this report, it must be reproduced in its entirety. This report contains a total of 67 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

ATTACHMENT F

Uniform Hazardous Waste Manifests

State of California—Environmental Protection Agency
Form Approved OMB No. 2050-0039 (Expires 9-30-96)
Please print or type. Form designed for use on elite (12-pitch) typewriter.

See Instructions on back of page 6.

Department of Toxic Substances Control
Sacramento, California

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: CA 9 6 1 4 2 3 1 5 1 2 | Manifest Document No.: 4 0 7 5

2. Page 1 of 1

Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address:
SHELL OIL COMPANY
WASTE DEPT. ROOM 1455
P.O. BOX 2099
HOUSTON, TX 77252-2099

4. Generator's Phone (713-241-2393

5. Transporter 1 Company Name: CROSBY & OVERTON, INC.
6. US EPA ID Number: CAD 9 8 2 5 2 4 4 8 0

7. Transporter 2 Company Name:
8. US EPA ID Number:

9. Designated Facility Name and Site Address:
ERICKSON, INC.
255 PARR BLVD.
RICHMOND, CA 94801
10. US EPA ID Number: CAD 0 0 9 4 6 6 3 9 2

11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
a. NON-RCRA HAZARDOUS WASTE SOLID	0 0 1	D	2000	P
b.				
c.				
d.				

J. Additional Descriptions for Materials Listed Above: NON-FIBERGLASS PRODUCT PIPING

K. Handling Codes for Wastes Listed Above: D1/99

15. Special Handling Instructions and Additional Information
24 HOUR EMERGENCY PHONE NUMBER (800) 424-9300

Facility:
SERVICE STATION
2160 OTIS DRIVE
ALAMEDA, CA
94503

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

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name: J. R. SPEIR | Signature: [signature] ON BEHALF OF SHELL OIL CO. | Month Day Year: 0 9 2 3 9 7

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Scott Estrella | Signature: [signature] | Month Day Year: 0 9 2 3 9 7

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name: | Signature: | Month Day Year:

19. Discrepancy Indication Space

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name: DAVID SATO | Signature: DAVE SATO | Month Day Year: 0 9 2 4 9 7

GENERATOR / TRANSPORTER / FACILITY

IN CASE OF EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802; WITHIN CALIFORNIA, CALL 1-800-852-7550

204-0072-0502+3982

DO NOT WRITE BELOW THIS LINE.

Yellow: TSDF SENDS THIS COPY TO GENERATOR WITHIN 30 DAYS.
(Generators who submit hazardous waste for transport out-of-state, produce completed copy of this copy and send to DTSC within 30 days.)

DTSC 8022A (1/95)
EPA 8700—22

State of California—Environmental Protection Agency
Form Approved OMB No. 2050-0039 (Expires 9-30-96)
Please print or type. Form designed for use on elite (12-pitch) typewriter.

See instructions on back of page 6. 970929

Department of Toxic Substances Control
Sacramento, California

IN CASE OF EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802; WITHIN CALIFORNIA, CALL 1-800-852-7550

96522485

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: C A D 9 8 1 4 0 3 1 8 1 5
Manifest Document No.: 0 5 9 4
2. Page 1 of 1

Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
SHELL OIL COMPANY
SONDRA BIENVENU, TSP1449
P.O. BOX 2099
HOUSTON, TX 77252-2099

4. Generator's Phone (713)-241-2258

5. Transporter 1 Company Name: Erickson Inc
6. US EPA ID Number: CAD009466392

7. Transporter 2 Company Name:
8. US EPA ID Number:

9. Designated Facility Name and Site Address
ERICKSON, INC.
255 PARR BLVD.
RICHMOND, CA 94801

10. US EPA ID Number: CAD009466392

11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
a. NON-RCRA HAZARDOUS WASTE SOLID	001	TP	013000	P
b.				
c.				
d.				

J. Additional Descriptions for Materials Listed Above
[illegible] UNDERGROUND STORAGE TANK(S)

K. Handling Codes for Wastes Listed Above
a. 99

15. Special Handling Instructions and Additional Information
24 HOUR EMERGENCY PHONE NUMBER (800) 424-9300
PLACARDS PROVIDED BY TRANSPORTER - UN1993
TANK #20884

Facility:
SERVICE STATION
2160 OTIS DRIVE
ALAMEDA, CA
94503

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

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name	Signature		Month	Day	Year
J.R. Speir	[signature]	ON BEHALF OF SHELL OIL CO.	09	04	97

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
ALEC OKINO	[signature]	09	04	97

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year

19. Discrepancy Indication Space

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name	Signature	Month	Day	Year
DAVID SATO	DAVE SATO	09	04	97

2040072-0502

DO NOT WRITE BELOW THIS LINE.

DTSC 8022A (1/95)
EPA 8700—22

White: TSDF SENDS THIS COPY TO DTSC WITHIN 30 DAYS.
To: P.O. Box 3000, Sacramento, CA 95812

State of California—Environmental Protection Agency
Form Approved OMB No. 2050-0039 (Expires 9-30-96)
Please print or type. Form designed for use on elite (12-pitch) typewriter.

See Instructions on back of page 6.

970929

Department of Toxic Substances Control
Sacramento, California

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.	Manifest Document No.	2. Page 1 of 1	Information in the shaded areas is not required by Federal law.
CAD981493191	05975		

3. Generator's Name and Mailing Address
SHELL OIL COMPANY
SONDRA BIENVENU, TSP1449
P.O. BOX 2099
HOUSTON, TX 77252-2099

4. Generator's Phone (713-241-2258

5. Transporter 1 Company Name: Trident Trucking
6. US EPA ID Number: CAD981241814DDD

7. Transporter 2 Company Name
8. US EPA ID Number

9. Designated Facility Name and Site Address
ERICKSON, INC.
255 PARR BLVD.
RICHMOND, CA 94801
10. US EPA ID Number: CAD009466392

11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt/Vol
a. NON-RCRA HAZARDOUS WASTE SOLID	001	TP	03000	P
b. NON-RCRA HAZARDOUS WASTE SOLID	001	TP	001300	P
c.				
d.				

E. Additional Descriptions for Materials Listed Above (UNDERGROUND STORAGE TANK(S))
K. Handling Codes for Wastes Listed Above: a. [illegible] b. [illegible]

15. Special Handling Instructions and Additional Information
24 HOUR EMERGENCY PHONE NUMBER (800) 424-9300
PLACARDS PROVIDED BY TRANSPORTER - UN1993

Facility:
SERVICE STATION
2160 OTIS DRIVE
ALAMEDA, CA
94503

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

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name	Signature	Month	Day	Year
J.R. SPERA	ON BEHALF OF SHELL OIL CO.	09	05	97

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
Doug Biggs	Doug Biggs	09	14	97

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year

19. Discrepancy Indication Space

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.

Printed/Typed Name	Signature	Month	Day	Year
DAVID SATO	DAVE SATO	09	14	97

IN CASE OF EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802; WITHIN CALIFORNIA, CALL 1-800-852-7550

GENERATOR | TRANSPORTER | FACILITY

2040072-0502

DO NOT WRITE BELOW THIS LINE.

DTSC 8022A (1/95)
EPA 8700—22

White: TSDF SENDS THIS COPY TO DTSC WITHIN 30 DAYS.
To: P.O. Box 3000, Sacramento, CA 95812

State of California—Environmental Protection Agency
Form Approved OMB No. 2050-0039 (Expires 9-30-96)
Please print or type. Form designed for use on elite (12-pitch) typewriter.

See Instructions on back of page 6. 970929

Department of Toxic Substances Control
Sacramento, California

96522486

IN CASE OF EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802; WITHIN CALIFORNIA, CALL 1-800-852-7550

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: C A D 9 8 1 4 0 3 1 8 1
Manifest Document No.: 5 0 5 9 5
2. Page 1 of 1
Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address:
SHELL OIL COMPANY
SONDRA BIENVENU, TSP1449
P.O. BOX 2099
HOUSTON, TX 77252-2099

4. Generator's Phone: 713-241-2258

5. Transporter 1 Company Name: Erickson Co.
6. US EPA ID Number: CAD009466392

7. Transporter 2 Company Name:
8. US EPA ID Number:

9. Designated Facility Name and Site Address:
ERICKSON, INC.
255 PARR BLVD.
RICHMOND, CA 94801

10. US EPA ID Number: CAD009466392

11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt/Vol
a. NON-RCRA HAZARDOUS WASTE SOLID	001	TP	03000	P
b.				
c.				
d.				

UNDERGROUND STORAGE TANK(S) — 99

15. Special Handling Instructions and Additional Information
24 HOUR EMERGENCY PHONE NUMBER (800) 424-9300
PLACARDS PROVIDED BY TRANSPORTER - UN1993
TANK # 2885

Facility:
SERVICE STATION
2160 OTIS DRIVE
ALAMEDA, CA
94503

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Printed/Typed Name: J.R. SPEIR — Signature: [signature] — ON BEHALF OF SHELL OIL CO. — Month/Day/Year: 09 04 97

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: JAMES BYARS — Signature: James Byars — Month/Day/Year: 09 04 97

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name: — Signature: — Month/Day/Year:

19. Discrepancy Indication Space

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name: DAVID SATO — Signature: Dave Sato — Month/Day/Year: 09 04 97

2040072-0502

DO NOT WRITE BELOW THIS LINE.

DTSC 8022A (1/95)
EPA 8700—22

White: TSDF SENDS THIS COPY TO DTSC WITHIN 30 DAYS.
To: P.O. Box 3000, Sacramento, CA 95812