

C A M B R I A

ENVIRONMENTAL
PROTECTION

December 8, 1999

90 DEC 15 PM 2: 27

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

Re: **Second Quarter 1999 Monitoring and Remediation Report**
Former Shell Service Station
15275 Washington Avenue
San Leandro, California
Incident #97088270
Cambria Project #241-0933-002



Dear Mr. Seery:

On behalf of Equiva Services LLC, Cambria Environmental Technology, Inc. (Cambria) is submitting this ground water monitoring report in accordance with the reporting requirements of 23 CCR 2652d.

HYDROCARBON REMOVAL SUMMARY

Hydrocarbon Removal	This Quarter (lbs) 3/24/99 - 6/24/99	Cumulative (lbs) 5/18/98 - 6/24/99
Vapor-Phase	5	1,392

The table above summarizes the vapor-phase hydrocarbon removal by the soil vapor extraction (SVE) system currently operating at the site. Details of the SVE system operation and maintenance are discussed below.

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


**Cambria
Environmental
Technology, Inc.**

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

$$1392 \text{ lbs} \times \frac{\text{gal}}{6.7 \text{ lbs}} = \sim 208 \text{ gals}$$

SECOND QUARTER 1999 ACTIVITIES

Ground Water Monitoring: Blaine Tech Services, Inc. (Blaine) of San Jose, California gauged and sampled selected wells. Blaine calculated ground water elevations and compiled the analytical data. Cambria prepared a ground water elevation contour map (Figure 1). The Blaine report, presenting the laboratory report, is included as Attachment A.



SVE System Operation and Maintenance (O&M): The SVE system consists of a 100 cubic feet per minute (CFM) electric catalytic oxidizer that extracts soil vapors from two horizontal vapor trenches completed on the east and west sides of the existing on-site building. Vapors are also extracted from the soil vapor extraction well SV-1 and monitoring wells S-1, S-3, S-5, S-7, S-8 and SR-1 (Figure 1). **Since system startup on May 18, 1998 through June 24, 1999, the SVE system has removed approximately 1,392 lbs of vapor-phase hydrocarbons from beneath the site.** Historical performance and analytical data for the SVE system are summarized in Table 1, and laboratory analytical results for soil vapor sampling are included as Attachment B. The total petroleum hydrocarbons as gasoline (TPHg) removal rate has decreased from 1,600 parts per million by volume (ppmv) in May, 1998 to 102 ppmv in June, 1999. Therefore, it appears that SVE is successfully remediating the site to low, asymptotic concentrations.

ANTICIPATED THIRD QUARTER 1999 ACTIVITIES

Ground Water Monitoring: Blaine will gauge and sample selected site wells and tabulate the data. Cambria will prepare a monitoring report.

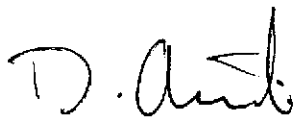
SVE System O&M: Cambria will continue to operate the SVE system during the next quarter, and will tabulate the results in the upcoming quarterly report.

CLOSING

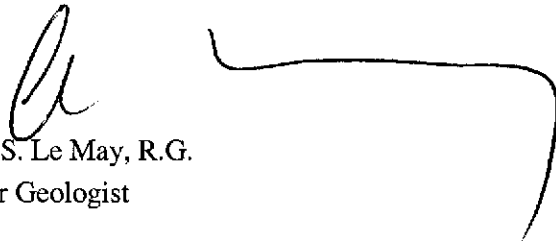
We appreciate the opportunity to work with you on this project. Please call Darryk Ataide at (510) 420-3339 if you have any questions or comments.

Sincerely,

Cambria Environmental Technology, Inc



Darryk Ataide, REA I
Project Manager



Ailsa S. Le May, R.G.
Senior Geologist



- Figure: 1 - Ground Water Elevation Contour Map
- Table: 1 - Soil Vapor Extraction System Performance and Summary
- Attachment: A - Blaine Ground Water Monitoring Report and Field Notes
B - Analytical Results for Soil Vapor Sampling

- cc: Karen Petryna, Equiva Services LLC, P.O. Box 7869, Burbank, California 91501-7869
- Mike Bakaldin, San Leandro Fire Department, Civic Center, 835 E. 14th Street, San Leandro, California 94577
- John Verber, Larson & Burnham, 1901 Harrison Street, Oakland, California 94604
- Jonathan Redding, Fitzgerald, Abbott & Beardsley LLP, 1221 Broadway, 21st Floor, Oakland, California 94612
- Richard Waxman, Wendell, Rosen, Black & Dean, P.O. Box 2047, Oakland, California 94604-2047

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Table 1. Soil Vapor Extraction System Performance and Summary - Former Shell Service Station, Incident #97088270, 15275 Washington Ave., San Leandro, California

Date	Interval Days of Operation (days)	System Flow Rate (CFM)	System Vacuum ("H2O)	Operating Temp. ¹ (°F)	HYDROCARBON CONCENTRATIONS						TPHg Removal Rate (#/day)	Cumulative TPHg Removal (#)	EMISSION RATES			Comments
					Influent			Effluent					TPHg Rate (#/day)	Benzene Rate (#/day)	TPHg Destruction Efficiency	
					OVA	TPHg	Benzene	OVA	TPHg	Benzene						
					← (ppmv) →											
05/18/98	0.125	65	20	1,003	---	1,600	47	---	<14	<0.16	33	4	0.29	0.00	99.1%	Startup
06/16/98	22	60	22	886	---	370	3	---	<2.8	<0.031	7	450	0.02	0.00	99.2%	
07/28/98	40	80	40	760	---	510	6	---	<2.8	<0.031	13	854	0.04	0.00	99.5%	
08/20/98	4	90	47	759	---	450	1.3	---	<2.8	<0.031	13	906	0.00	0.00	99.4%	
10/05/98	33	80	40	715	---	180	<0.78	---	<2.8	<0.031	5	1,197	0.03	0.00	98.4%	
10/28/98	7	70	49	707	---	280	<0.16	---	<2.8	<0.031	6	1,235	0.01	0.00	99.0%	
11/20/98	23	75	40	675	---	140	0.40	---	<2.8	<0.031	3	1,346	0.02	0.00	98.0%	
12/31/98	19.5	60	25	670	---	16	<0.031	---	<2.8	<0.031	0.3	1,382	0.02	0.00	82.5%	
01/28/99	7	53	21	668	---	6.2	0.16	---	<2.8	<0.031	0.1	1,383	0.01	0.00	54.8%	
02/23/99	6	50	21	665	---	22.8	0.16	---	<2.8	<0.031	0.4	1,385	0.01	0.00	87.7%	
03/23/99	6	50	22	680	---	31.5	<0.031	---	<2.8	<0.031	0.5	1,387	0.01	0.00	91.1%	
04/21/99	3	60	30	663	---	31	<0.063	---	<2.8	<0.031	0.6	1,389	0.00	0.00	91.0%	
05/28/99	2	50	18	---	---	55.0	<0.063	---	<2.8	<0.031	0.9	1,390	0.00	0.00	94.8%	
06/24/99	1	65	27	747	---	102	0.021	---	<2.8	<0.031	2.1	1,392	0.00	0.00	97.3%	

Abbreviations and Notes:

1 = Center oxidizer temperature, inlet temperature set point is 650 degrees F.

CFM = Cubic feet per minute.

ppmv = parts per million by volume.

= pounds.

--- = not analyzed or not measured.

SVE = Soil vapor extraction.

TPHg = Total Petroleum Hydrocarbons as Gasoline (C6-C12), by modified EPA Method 8015.

Benzene by EPA Method 8020.

OVA = Organic vapor analyzer.

TPHg REMOVAL/EMISSION RATE = lab concentration(ppmv) x system flow rate (cfm) x (1lb-mole/386ft3) x molecular weight (86 lb/lb-mole for TPHg, 78 lb/lb-mole for benzene) x 1440 min/day x 1/1,000,000.

TOTAL TPHg REMOVAL = Average of the current and previous removal rates multiplied by the day-interval of operation plus the previous total.

ATTACHMENT A

Blaine Ground Water Monitoring Report
and Field Notes

BLAINE
TECH SERVICES INC.



1680 ROGERS AVENUE
SAN JOSE, CALIFORNIA 95112-1105
(408) 573-7771 FAX
(408) 573-0555 PHONE

April 30, 1999

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

Second Quarter 1999 Groundwater Monitoring at
Former Shell Service Station
15275 Washington
San Leandro, CA

Monitoring performed on April 8, 1999

Groundwater Monitoring Report 990408-K-3

This report covers the routine monitoring of groundwater wells at this Former Shell 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, appropriate 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. Purge water (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. In order to avoid compromising the objectivity necessary for the proper and disinterested performance of this work, Blaine Tech Services, Inc. concentrates on objective data collection and does not participate in the interpretation of analytical results, the definition of geological or hydrological conditions, the formulation of recommendations, or the marketing of remedial systems.

Please call if you have any questions.

Yours truly,

A handwritten signature in black ink, appearing to read "Deidre Kerwin". The signature is fluid and cursive, with a long horizontal flourish at the end.

Deidre Kerwin
Operations Manager

DK/mt

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

cc: Anni Kreml
Cambria Environmental Technology, Inc.
1144 65th Street, Suite C
Oakland, CA 94608-2411

WELL CONCENTRATIONS
Former Shell Service Station
15275 Washington
San Leandro, CA
Wic #204-6852-1008

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)
S-1	07/08/1985	520	NA	NA	NA	NA	NA	NA	21.55	NA	NA	NA
S-1	09/06/1988	<50	<0.5	<1	<1	<0.3	NA	NA	21.55	NA	NA	NA
S-1	11/16/1988	<50	<0.5	<1	<1	<0.3	NA	NA	21.55	8.01	13.54	0.00
S-1	02/27/1989	<50	0.5	<1	<1	<0.3	NA	NA	21.55	NA	NA	NA
S-1	05/04/1989	<50	1.0	<1	<1	<0.3	NA	NA	21.55	NA	NA	NA
S-1	08/10/1989	<50	0.7	<1	<1	<0.3	NA	NA	21.55	7.93	13.62	0.00
S-1	10/10/1989	<50	<0.5	<1	<1	<0.3	NA	NA	21.55	8.09	13.46	0.00
S-1	01/25/1990	<50	<0.5	<0.5	<0.5	<1	NA	NA	21.55	7.73	13.82	0.00
S-1	04/18/1990	<50	<0.5	<0.5	<0.5	<1	NA	NA	21.55	7.91	13.64	0.00
S-1	07/23/1990	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	21.55	7.72	13.83	0.00
S-1	10/18/1990	80	5	<0.5	<0.5	3.0	NA	NA	21.55	8.55	13.00	0.00
S-1	01/28/1991	<50	4.5	<0.5	<0.5	2.0	NA	NA	21.55	8.52	13.03	0.00
S-1	04/25/1991	80a	3.7	<0.5	0.7	2.0	NA	NA	21.55	7.18	14.37	0.00
S-1	07/09/1991	200	16	<0.5	1.3	5.8	NA	NA	21.55	8.22	13.33	0.00
S-1	10/08/1991	<50	2.3	<0.5	<0.5	<0.5	NA	NA	21.55	8.70	12.85	0.00
S-1	02/05/1992	160	8.9	<0.5	2.1	6.0	NA	NA	21.55	8.14	13.41	0.00
S-1	04/28/1992	<50	2.4	<0.5	<0.5	0.9	NA	NA	21.55	7.52	14.03	0.00
S-1	07/27/1992	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	21.55	8.28	13.27	0.00
S-1	10/26/1992	57	3.0	1.6	1.4	1.7	NA	NA	21.55	8.74	12.81	0.00
S-1	01/14/1993	490	53	1.2	20	33	NA	NA	21.55	5.91	15.64	0.00
S-1	04/16/1993	240	20	<0.5	15	240	NA	NA	21.55	6.66	14.89	0.00
S-1	07/23/1993	<50	0.5	<0.5	<0.5	<0.5	NA	NA	21.55	7.53	14.02	0.00
S-1	10/27/1993	60	5.9	<0.5	2.5	1.7	NA	NA	21.55	8.20	13.35	0.00
S-1	01/27/1994	<50	2.1	<0.5	<0.5	0.63	NA	NA	21.55	7.26	14.29	0.00
S-1	05/05/1994	57	3.9	<0.5	1.9	1.9	NA	NA	21.27	7.38	13.89	0.00
S-1	07/26/1994	<50	2.2	<0.3	<0.3	<0.6	NA	NA	21.27	7.86	13.41	0.00

WELL CONCENTRATIONS
Former Shell Service Station
15275 Washington
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Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)
S-1	10/28/1994	<50	0.8	<0.3	<0.3	0.8	NA	NA	21.27	7.86	13.41	0.00
S-1	01/02/1995	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	21.27	6.85	14.42	0.00
S-1	04/14/1995	NA	NA	NA	NA	NA	NA	NA	21.27	6.08	15.19	0.00
S-1	07/28/1995	60	2.2	<0.5	1.3	1.2	NA	NA	21.27	6.79	14.48	0.00
S-1	10/17/1995	60	2.6	<0.5	1.2	1.3	NA	NA	21.27	7.04	14.23	0.00
S-1	01/11/1996	<50	2.0	<0.5	<0.5	<0.5	<2	NA	21.27	6.40	14.87	0.00
S-1	04/02/1996	NA	NA	NA	NA	NA	NA	NA	21.27	5.84	15.43	0.00
S-1	07/09/1996	NA	NA	NA	NA	NA	NA	NA	21.27	6.50	14.77	0.00
S-1	10/10/1996	NA	NA	NA	NA	NA	NA	NA	21.27	7.31	13.96	0.00
S-1	01/09/1997	<50	<0.50	<0.50	<0.50	<0.50	6.7	NA	21.27	5.50	15.77	0.00
S-1	04/08/1997	NA	NA	NA	NA	NA	NA	NA	21.27	7.03	14.24	0.00
S-1	07/21/1997	NA	NA	NA	NA	NA	NA	NA	21.27	7.00	14.27	0.00
S-1	10/08/1997	NA	NA	NA	NA	NA	NA	NA	21.27	7.51	13.76	0.00
S-1	01/15/1998	420	16	<0.50	4.6	3.9	26	NA	21.27	5.43	15.84	0.00
S-1	04/14/1998	NA	NA	NA	NA	NA	NA	NA	21.27	5.55	15.72	0.00
S-1	07/14/1998	NA	NA	NA	NA	NA	NA	NA	21.33	6.38	14.95	0.00
S-1	10/20/1998	NA	NA	NA	NA	NA	NA	NA	21.33	7.48	13.85	0.00
S-1	01/22/1999	<50.0	<0.500	<0.500	<0.500	<0.500	2.53	NA	21.33	6.37	14.96	0.00
S-1	04/08/1999	NA	NA	NA	NA	NA	NA	NA	21.33	5.93	15.40	0.00

S-3	09/06/1988	96000	3400	9500	2700	17000	NA	NA	21.14	NA	NA	NA
S-3	11/16/1988	70000	4600	8400	2500	13000	NA	NA	21.14	7.76	13.38	0.00
S-3	02/27/1989	32000	2400	3100	1500	6400	NA	NA	21.14	NA	NA	NA
S-3	05/04/1989	47000	4400	300	2400	15000	NA	NA	21.14	NA	NA	NA
S-3	08/10/1989	110000	5700	5700	3200	19000	NA	NA	21.14	7.92	13.22	0.00
S-3	10/10/1989	52000	4600	3300	2600	15000	NA	NA	21.14	8.00	13.14	0.00

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S-3	01/25/1990	420000	5200	4100	6700	34000	NA	NA	21.14	7.54	13.60	0.00
S-3	04/18/1990	58000	3800	1400	2400	12000	NA	NA	21.14	7.74	13.40	0.00
S-3	07/23/1990	49000	3400	1800	2300	12000	NA	NA	21.14	7.55	13.59	0.00
S-3	10/18/1990	44000	3500	650	2400	11000	NA	NA	21.14	8.47	12.67	0.00
S-3	01/28/1991	64000	40900	570	1940	8090	NA	NA	21.14	8.38	12.76	0.00
S-3	04/25/1991	120000	3900	3600	2400	8900	NA	NA	21.14	6.91	14.23	0.00
S-3	07/09/1991	50000	3600	2300	1800	10000	NA	NA	21.14	8.07	13.07	0.00
S-3	10/08/1991	130000	3600	1000	2800	8400	NA	NA	21.14	8.61	12.53	0.00
S-3	02/05/1992	150000	2500	670	2700	10000	NA	NA	21.14	7.80	13.34	0.00
S-3	04/28/1992	120000	2200	1200	2000	5800	NA	NA	21.14	7.27	13.87	0.00
S-3	07/27/1992	190000	1400	<1250	<1250	3400	NA	NA	21.14	8.10	13.04	0.00
S-3	10/26/1992	950000	2000	8400	16000	36000	NA	NA	21.14	8.62	12.52	0.00
S-3	01/14/1993	41000	2700	2500	1800	6900	NA	NA	21.14	5.16	15.98	0.00
S-3	04/16/1993	40000	930	2800	1900	14000	NA	NA	21.14	7.18	13.96	0.00
S-3	07/23/1993	87000	1600	<5	1300	4000	NA	NA	21.14	7.34	13.80	0.00
S-3	10/27/1993	36000	2200	<500	1500	3200	NA	NA	21.14	8.03	13.11	0.00
S-3	01/27/1994	190000	3200	3100	4100	15000	NA	NA	21.14	6.79	14.35	0.00
S-3	05/05/1994	36000	1100	490	1600	4700	NA	NA	20.48	6.75	13.73	0.00
S-3	07/26/1994	18000	1039	170.5	845.4	967.5	NA	NA	20.48	7.30	13.18	0.00
S-3	10/28/1994	25869	467.9	294	546.2	343.3	NA	NA	20.48	8.36	12.12	0.00
S-3	01/02/1995	23000	850	260	900	2100	NA	NA	20.48	6.36	14.12	0.00
S-3	04/14/1995	33000	720	670	1600	6600	NA	NA	20.48	5.87	14.61	0.00
S-3	07/28/1995	12000	540	<10	580	780	NA	NA	20.48	6.33	14.15	0.00
S-3	10/17/1995	Well inaccessible		NA	NA	NA	NA	NA	20.48	6.48	14.00	0.00
S-3	01/11/1996	16000	520	290	740	2600	<200	NA	20.48	5.80	14.68	0.00
S-3	04/02/1996	NA	NA	NA	NA	NA	NA	NA	20.48	5.00	15.48	0.00

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S-3	07/09/1996	NA	NA	NA	NA	NA	NA	NA	20.48	5.93	14.55	0.00
S-3	10/10/1996	NA	NA	NA	NA	NA	NA	NA	20.48	6.73	13.75	0.00
S-3	01/09/1997	30000	420	330	1500	6300	<500	NA	20.48	4.72	15.76	0.00
S-3	04/08/1997	NA	NA	NA	NA	NA	NA	NA	20.48	6.63	13.85	0.00
S-3	07/21/1997	NA	NA	NA	NA	NA	NA	NA	20.48	6.18	14.30	0.00
S-3	10/08/1997	NA	NA	NA	NA	NA	NA	NA	20.48	6.83	13.65	0.00
S-3	01/15/1998	21000	300	51	770	2800	<100	NA	20.48	4.30	16.18	0.00
S-3	04/14/1998	NA	NA	NA	NA	NA	NA	NA	20.48	4.37	16.11	0.00
S-3	07/14/1998	NA	NA	NA	NA	NA	NA	NA	20.48	5.47	15.01	0.00
S-3	10/20/1998	Well inaccessible		NA	NA	NA	NA	NA	20.48	NA	NA	NA
S-3	01/22/1999	40000	313	194	2200	8800	<40.0	NA	20.48	5.71	14.77	NA
S-3	04/08/1999	NA	NA	NA	NA	NA	NA	NA	20.48	4.95	15.53	NA

S-3 (D)	01/15/1998	14000	330	63	920	3400	<250	NA	20.48	NA	NA	NA
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S-5	01/08/1987	7800	380	510	NA	1000	NA	NA	21.41	NA	NA	NA
S-5	09/06/1988	7000	2600	60	400	700	NA	NA	21.41	NA	NA	NA
S-5	11/16/1988	3000	660	60	120	220	NA	NA	21.41	NA	NA	NA
S-5	02/27/1989	5700	2000	220	260	320	NA	NA	21.41	NA	NA	NA
S-5	05/04/1989	9000	3000	600	630	1700	NA	NA	21.41	NA	NA	NA
S-5	08/10/1989	5100	1100	<50	270	400	NA	NA	21.41	8.28	13.13	0.00
S-5	10/10/1989	15000	3300	160	830	2200	NA	NA	21.41	8.32	13.09	0.00
S-5	01/25/1990	12000	2400	360	570	1400	NA	NA	21.41	8.20	13.21	0.00
S-5	04/18/1990	5200	1100	40	300	460	NA	NA	21.41	8.32	13.09	0.00
S-5	07/23/1990	5500	1300	140	320	730	NA	NA	21.41	8.03	13.38	0.00
S-5	10/18/1990	12000	3200	40	720	900	NA	NA	21.41	9.03	12.38	0.00

WELL CONCENTRATIONS
Former Shell Service Station
15275 Washington
San Leandro, CA
Wic #204-6852-1008

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)
S-5	01/28/1991	2550	410	15	110	60	NA	NA	21.41	8.80	12.61	0.00
S-5	04/25/1991	67000	5100	3100	2800	11000	NA	NA	21.41	7.40	14.01	0.00
S-5	07/09/1991	4900	480	36	360	1000	NA	NA	21.41	8.52	12.89	0.00
S-5	10/08/1991	6600	370	7.0	190	380	NA	NA	21.41	9.00	12.41	0.00
S-5	02/05/1992	44000	4800	850	2700	8400	NA	NA	21.41	8.11	13.30	0.00
S-5	04/28/1992	33000	1400	320	1600	5200	NA	NA	21.41	7.70	13.71	0.00
S-5	07/27/1992	20000	2400	<25	1800	2300	NA	NA	21.41	8.52	12.89	0.00
S-5	10/26/1992	21000	1600	140	1500	2800	NA	NA	21.41	9.02	12.39	0.00
S-5	01/14/1993	54000	1900	1000	2700	16000	NA	NA	21.41	5.22	16.19	0.00
S-5	04/16/1993	42000	2000	1300	4300	18000	NA	NA	21.41	7.04	14.37	0.00
S-5	07/23/1993	46000	2500	2200	3400	11000	NA	NA	21.41	7.75	13.66	0.00
S-5	10/27/1993	6500	990	31	1100	1000	NA	NA	21.41	8.49	12.92	0.00
S-5	01/27/1994	34000	1800	580	2900	9700	NA	NA	21.41	7.04	14.37	0.00
S-5	05/05/1994	24000	670	70	1400	2700	NA	NA	21.03	7.20	13.83	0.00
S-5	07/27/1994	4700	193.6	33.1	332.3	281.2	NA	NA	21.03	7.72	13.31	0.00
S-5	10/28/1994	3200	167.3	18	238.7	104.5	NA	NA	21.03	7.82	13.21	0.00
S-5	01/02/1995	18000	1300	220	3400	10000	NA	NA	21.03	6.65	14.38	0.00
S-5	04/14/1995	NA	NA	NA	NA	NA	NA	NA	21.03	5.99	15.04	0.00
S-5	07/28/1995	25000	440	74	1700	4500	NA	NA	21.03	6.77	14.26	0.00
S-5	10/17/1995	18000	360	24	1300	2200	NA	NA	21.03	7.00	14.03	0.00
S-5	01/11/1996	41000	420	180	1600	9500	<200	NA	21.03	6.22	14.81	0.00
S-5	04/02/1996	NA	NA	NA	NA	NA	NA	NA	21.03	5.44	15.59	0.00
S-5	07/09/1996	NA	NA	NA	NA	NA	NA	NA	21.03	6.41	14.62	0.00
S-5	10/10/1996	NA	NA	NA	NA	NA	NA	NA	21.03	7.19	13.84	0.00
S-5	01/09/1997	38000	130	43	160	6200	<125	NA	21.03	5.03	16.00	0.00
S-5	04/08/1997	NA	NA	NA	NA	NA	NA	NA	21.03	7.20	13.83	0.00

WELL CONCENTRATIONS
Former Shell Service Station
15275 Washington
San Leandro, CA
Wic #204-6852-1008

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)
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S-5	07/21/1997	NA	NA	NA	NA	NA	NA	NA	21.03	6.82	14.21	0.00
S-5	10/08/1997	NA	NA	NA	NA	NA	NA	NA	21.03	7.31	13.72	0.00
S-5	01/15/1998	49000	62	<50	93	4100	<250	NA	21.03	4.58	16.45	0.00
S-5	04/14/1998	NA	NA	NA	NA	NA	NA	NA	21.03	4.94	16.09	0.00
S-5	07/14/1998	NA	NA	NA	NA	NA	NA	NA	21.27	5.36	15.91	0.00
S-5	10/20/1998	NA	NA	NA	NA	NA	NA	NA	21.27	7.53	13.74	0.00
S-5	01/22/1999	2550	9.09	<0.500	1.93	112	4.40	NA	21.27	6.35	14.92	0.00
S-5	04/08/1999	NA	NA	NA	NA	NA	NA	NA	21.27	5.37	15.90	0.00

S-5 (D)	07/28/1995	25000	450	<50	1700	4600	NA	NA	21.03	NA	NA	NA
S-5 (D)	01/09/1997	36000	130	<50	160	5600	<250	NA	21.03	NA	NA	NA

S-6	11/16/1988	50	0.7	<1	<1	<3	NA	NA	22.02	8.58	13.44	0.00
S-6	02/27/1989	<50	<0.5	<1	<1	<3	NA	NA	22.02	NA	NA	NA
S-6	05/04/1989	<50	<0.5	<1	<1	<3	NA	NA	22.02	NA	NA	NA
S-6	08/10/1989	<50	<0.5	<1	<1	<3	NA	NA	22.02	8.54	13.48	0.00
S-6	10/10/1989	<50	<0.5	<1	<1	<3	NA	NA	22.02	8.58	13.44	0.00
S-6	01/25/1990	<50	<0.5	<0.5	<0.5	<1	NA	NA	22.02	8.31	13.71	0.00
S-6	04/18/1990	<50	<0.5	0.6	<0.5	1.0	NA	NA	22.02	8.43	13.59	0.00
S-6	07/23/1990	<50	<0.5	0.9	<0.5	1.8	NA	NA	22.02	8.24	13.78	0.00
S-6	10/18/1990	<50	<0.5	0.7	<0.5	0.8	NA	NA	22.02	9.20	12.82	0.00
S-6	01/28/1991	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	22.02	9.10	12.92	0.00
S-6	04/25/1991	<50	<0.5	<0.5	<0.5	0.7	NA	NA	22.02	7.74	14.28	0.00
S-6	07/09/1991	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	22.02	8.81	13.21	0.00
S-6	10/08/1991	<50	0.7	<0.5	<0.5	<0.5	NA	NA	22.02	9.26	12.76	0.00
S-6	02/02/1992	NA	NA	NA	NA	NA	NA	NA	22.02	8.47	13.55	0.00

WELL CONCENTRATIONS
Former Shell Service Station
15275 Washington
San Leandro, CA
Wic #204-6852-1008

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)
S-6	04/28/1992	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	22.02	7.91	14.11	0.00
S-6	07/27/1992	NA	NA	NA	NA	NA	NA	NA	22.02	8.83	13.19	0.00
S-6	10/26/1992	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	22.02	9.29	12.73	0.00
S-6	01/13/1994	NA	NA	NA	NA	NA	NA	NA	22.02	9.43	12.59	0.00
S-6	04/16/1993	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	22.02	7.12	14.90	0.00
S-6	07/23/1993	NA	NA	NA	NA	NA	NA	NA	22.02	8.14	13.88	0.00
S-6	10/27/1993	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	22.02	8.75	13.27	0.00
S-6	01/27/1994	NA	NA	NA	NA	NA	NA	NA	22.02	7.87	14.15	0.00
S-6	05/05/1994	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	21.40	7.71	13.69	0.00
S-6	07/26/1994	NA	NA	NA	NA	NA	NA	NA	21.40	8.10	13.30	0.00
S-6	10/28/1994	<50	<0.3	<0.3	<0.3	<0.6	NA	NA	21.40	8.04	13.36	0.00
S-6	01/02/1995	NA	NA	NA	NA	NA	NA	NA	21.40	7.07	14.33	0.00
S-6	04/14/1995	<50	<0.5	1.3	<0.5	<0.5	NA	NA	21.40	6.29	15.11	0.00
S-6	07/28/1995	NA	NA	NA	NA	NA	NA	NA	21.40	6.91	14.49	0.00
S-6	10/17/1995	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	21.40	7.20	14.20	0.00
S-6	01/11/1996	NA	NA	NA	NA	NA	NA	NA	21.40	6.60	14.80	0.00
S-7	11/16/1988	100	5.1	15	2.0	13	NA	NA	21.47	8.24	13.23	0.00
S-7	02/27/1989	50	0.5	3.0	1.0	11	NA	NA	21.47	NA	NA	NA
S-7	05/04/1989	<50	<0.5	<1	<1	<3	NA	NA	21.47	NA	NA	NA
S-7	08/10/1989	<50	<0.5	<1	<1	<3	NA	NA	21.47	8.18	13.29	0.00
S-7	10/10/1989	<50	<0.5	<1	<1	<3	NA	NA	21.47	8.35	13.12	0.00
S-7	01/25/1990	<50	<0.5	<0.5	<0.5	<1	NA	NA	21.47	7.95	13.52	0.00
S-7	04/18/1990	<50	<0.5	<0.5	<0.5	<1	NA	NA	21.47	8.06	13.41	0.00
S-7	07/23/1990	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	21.47	7.89	13.58	0.00
S-7	10/18/1990	<50	<0.5	0.5	0.5	4.1	NA	NA	21.47	8.83	12.64	0.00

WELL CONCENTRATIONS
Former Shell Service Station
15275 Washington
San Leandro, CA
Wic #204-6852-1008

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)
S-7	01/28/1991	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	21.47	8.77	12.70	0.00
S-7	04/25/1991	60	<0.5	<0.5	<0.5	<0.5	NA	NA	21.47	7.25	14.22	0.00
S-7	07/09/1991	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	21.47	8.41	13.06	0.00
S-7	10/08/1991	NA	NA	NA	NA	NA	NA	NA	21.47	8.95	12.52	0.00
S-7	02/05/1992	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	21.47	8.04	13.43	0.00
S-7	10/08/1991	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	21.47	8.95	12.52	0.00
S-7	04/28/1992	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	21.47	7.45	14.02	0.00
S-7	07/27/1992	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	21.47	8.48	12.99	0.00
S-7	10/26/1992	570	<0.5	<0.5	<0.5	<0.5	NA	NA	21.47	9.95	11.52	0.00
S-7	01/14/1993	56	<0.5	<0.5	<0.5	<0.5	NA	NA	21.47	5.84	15.63	0.00
S-7	04/16/1993	110	28	<0.5	<0.5	1.8	NA	NA	21.47	6.38	15.09	0.00
S-7	07/23/1993	80	0.48	<0.5	<0.5	0.8	NA	NA	21.47	7.72	13.75	0.00
S-7	10/27/1993	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	21.47	7.79	13.68	0.00
S-7	01/27/1994	70a	<0.5	<0.5	<0.5	<0.5	NA	NA	21.47	7.85	13.62	0.00
S-7	05/05/1994	92	2.1	<0.5	<0.5	<0.5	NA	NA	20.85	9.45	11.40	0.00
S-7	07/26/1994	88	<0.3	<0.3	<0.3	<0.6	NA	NA	20.85	7.64	13.21	0.00
S-7	10/28/1994	60	<0.3	0.5	<0.3	<0.6	NA	NA	20.85	7.68	13.17	0.00
S-7	01/02/1995	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	20.85	6.95	13.90	0.00
S-7	04/14/1995	NA	NA	NA	NA	NA	NA	NA	20.85	5.82	15.03	0.00
S-7	07/28/1995	170	1.7	<0.5	<0.5	2.2	NA	NA	20.85	6.32	14.53	0.00
S-7	10/17/1995	100	<0.5	0.6	<0.5	<0.5	NA	NA	20.85	7.07	13.78	0.00
S-7	01/11/1996	80	0.6	<0.5	<0.5	<0.5	54	NA	20.85	6.10	14.75	0.00
S-7	04/02/1996	NA	NA	NA	NA	NA	NA	NA	20.85	6.14	14.71	0.00
S-7	07/09/1996	NA	NA	NA	NA	NA	NA	NA	20.85	6.40	14.45	0.00
S-7	10/10/1996	NA	NA	NA	NA	NA	NA	NA	20.85	6.70	14.15	0.00
S-7	01/09/1997	130	1.4	<0.50	<0.50	0.56	70	NA	20.85	5.25	15.60	0.00

WELL CONCENTRATIONS
Former Shell Service Station
15275 Washington
San Leandro, CA
Wic #204-6852-1008

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)
S-7	04/08/1997	NA	NA	NA	NA	NA	NA	NA	20.85	7.15	13.70	0.00
S-7	07/21/1997	NA	NA	NA	NA	NA	NA	NA	20.85	6.67	14.18	0.00
S-7	10/08/1997	NA	NA	NA	NA	NA	NA	NA	20.85	7.26	13.59	0.00
S-7	01/15/1998	<50	<0.50	<0.50	<0.50	<0.50	39	NA	20.85	5.51	15.34	0.00
S-7	04/14/1998	NA	NA	NA	NA	NA	NA	NA	20.85	5.45	15.40	0.00
S-7	07/14/1998	NA	NA	NA	NA	NA	NA	NA	21.03	6.48	14.55	0.00
S-7	10/20/1998	NA	NA	NA	NA	NA	NA	NA	21.03	7.37	13.66	0.00
S-7	01/22/1999	<50.0	<0.500	<0.500	<0.500	<0.500	97.8	NA	21.03	6.21	14.82	0.00
S-7	04/08/1999	NA	NA	NA	NA	NA	NA	NA	21.03	5.30	15.73	0.00
S-8	11/16/1988	210	5.0	<1	1.0	5.0	NA	NA	20.72	7.76	12.96	0.00
S-8	02/27/1989	<50	2.4	<1	<1	<3	NA	NA	20.72	NA	NA	NA
S-8	05/04/1989	<50	7.5	<1	2.0	<3	NA	NA	20.72	NA	NA	NA
S-8	08/10/1989	<50	0.6	<1	<1	<3	NA	NA	20.72	7.79	12.93	0.00
S-8	10/10/1989	<50	<0.5	<1	<1	<3	NA	NA	20.72	7.84	12.88	0.00
S-8	01/25/1990	<50	<0.5	<0.5	<0.5	<1	NA	NA	20.72	7.47	13.25	0.00
S-8	04/18/1990	<50	<0.5	<0.5	<0.5	<1	NA	NA	20.72	7.59	13.13	0.00
S-8	07/23/1990	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	20.72	7.49	13.23	0.00
S-8	10/18/1990	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	20.72	8.44	12.28	0.00
S-8	01/28/1991	<50	55	0.5	<0.5	1.4	NA	NA	20.72	8.28	12.44	0.00
S-8	04/25/1991	130a	19	<0.5	1.3	1.1	NA	NA	20.72	6.72	14.00	0.00
S-8	07/09/1991	200	33	<0.5	1.8	2.8	NA	NA	20.72	7.98	12.74	0.00
S-8	10/08/1991	580	95	2.2	4.9	6.5	NA	NA	20.72	8.55	12.17	0.00
S-8	02/05/1992	90a	18	<0.5	6.2	1.8	NA	NA	20.72	7.50	13.22	0.00
S-8	04/28/1992	<50	5.9	<0.5	2.5	<0.5	NA	NA	20.72	7.14	13.58	0.00
S-8	07/27/1992	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	20.72	8.06	12.66	0.00

WELL CONCENTRATIONS
Former Shell Service Station
15275 Washington
San Leandro, CA
Wic #204-6852-1008

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)
S-8	10/26/1992	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	20.72	8.58	12.14	0.00
S-8	01/14/1993	270	74	0.9	25	5.5	NA	NA	20.72	5.32	15.40	0.00
S-8	04/16/1993	1100	420	<0.5	200	20	NA	NA	20.72	5.76	14.96	0.00
S-8	07/23/1993	160	23	<0.5	1.2	1.5	NA	NA	20.72	7.29	13.43	0.00
S-8	10/27/1993	420	650	0.7	11	1.7	NA	NA	20.72	7.93	12.79	0.00
S-8	01/27/1994	290	65	<1	6.9	2.4	NA	NA	20.72	6.31	14.41	0.00
S-8	05/05/1994	120	13	<0.5	<0.5	<0.5	NA	NA	20.32	6.84	13.48	0.00
S-8	07/26/1994	115	12.2	1.3	<0.3	2.7	NA	NA	20.32	7.42	12.90	0.00
S-8	10/28/1994	733	75.9	3.2	4.9	4.2	NA	NA	20.32	7.56	12.76	0.00
S-8	01/02/1995	290	54	<0.5	10	<0.5	NA	NA	20.32	6.19	14.13	0.00
S-8	04/14/1995	230	68	<0.5	10	2.4	NA	NA	20.32	5.54	14.78	0.00
S-8	07/28/1995	290	44	<0.5	8.0	<0.5	NA	NA	20.32	6.28	14.04	0.00
S-8	10/17/1995	190	24	<0.5	1.0	0.9	NA	NA	20.32	6.64	13.68	0.00
S-8	01/11/1996	400	85	1.1	13	3.4	2.3	NA	20.32	5.96	14.36	0.00
S-8	04/02/1996	300	110	0.7	4.9	0.9	<2	NA	20.32	5.21	15.11	0.00
S-8	07/09/1996	<50	5.4	<0.50	0.63	<0.50	<2.5	NA	20.32	6.05	14.27	0.00
S-8	10/10/1996	150	0.53	0.66	2.3	1.0	8.9	NA	20.32	6.83	13.49	0.00
S-8	01/09/1997	240	27	<0.50	2.4	<0.50	5.8	NA	20.32	4.51	15.81	0.00
S-8	04/08/1997	220	27	0.62	1.9	0.71	5.7	NA	20.32	6.50	13.82	0.00
S-8	07/21/1997	1200	140	2.8	21	5.0	27	NA	20.32	6.36	13.96	0.00
S-8	10/08/1997	690	92	1.4	25	2.0	<2.5	NA	20.32	6.83	13.49	0.00
S-8	01/15/1998	460	110	1.0	3.4	1.7	<5.0	NA	20.32	4.30	16.02	0.00
S-8	04/14/1998	780	190	2.9	15	3.4	<2.5	NA	20.32	4.68	15.64	0.00
S-8	07/14/1998	1600	240	<5.0	36	<5.0	<25	NA	20.36	6.36	14.00	0.00
S-8	10/20/1998	700	55	<5.0	<5.0	<5.0	49	NA	20.36	6.91	13.45	0.00
S-8	01/22/1999	<50.0	5.83	<0.500	0.919	<0.500	<2.00	NA	20.36	5.97	14.39	0.00

WELL CONCENTRATIONS
Former Shell Service Station
15275 Washington
San Leandro, CA
Wic #204-6852-1008

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)
S-8	04/08/1999	684	10.6	1.27	9.75	1.03	10.5	NA	20.36	5.01	15.35	0.00
S-8 (D)	07/21/1997	1200	120	<2.0	19	3.9	25	NA	20.32	NA	NA	NA
S-8 (D)	10/08/1997	700	95	1.3	26	1.9	<2.5	NA	20.32	NA	NA	NA
S-9	11/16/1988	1400	69	3.0	52	180	NA	NA	20.96	7.78	13.18	0.00
S-9	02/27/1989	1600	240	4.0	130	180	NA	NA	20.96	NA	NA	NA
S-9	05/04/1989	2600	470	10	240	480	NA	NA	20.96	NA	NA	NA
S-9	08/10/1989	520	73	<10	40	<30	NA	NA	20.96	7.82	13.14	0.00
S-9	10/10/1989	380	82	<1	46	13	NA	NA	20.96	7.87	13.09	0.00
S-9	01/25/1990	750	140	1.2	69	75	NA	NA	20.96	7.41	13.55	0.00
S-9	04/18/1990	680	150	1.7	50	37	NA	NA	20.96	7.65	13.31	0.00
S-9	07/23/1990	490	94	1.2	32	24	NA	NA	20.96	7.58	13.38	0.00
S-9	10/18/1990	390	140	0.7	3.3	24	NA	NA	20.96	8.46	12.50	0.00
S-9	01/28/1991	1040	450	4.6	85	97	NA	NA	20.96	8.29	12.67	0.00
S-9	04/25/1991	5800	880	9.0	360	500	NA	NA	20.96	6.09	14.87	0.00
S-9	07/09/1991	1400	220	2.8	82	100	NA	NA	20.96	7.82	13.14	0.00
S-9	10/08/1991	890	960	<2.5	16	29	NA	NA	20.96	8.55	12.41	0.00
S-9	02/05/1992	950	240	<2.5	28	55	NA	NA	20.96	6.96	14.00	0.00
S-9	04/28/1992	1400a	290	3.0	100	81	NA	NA	20.96	6.76	14.20	0.00
S-9	07/27/1992	890	190	<2.5	66	68	NA	NA	20.96	8.10	12.86	0.00
S-9	10/26/1992	650	160	<2.5	63	89	NA	NA	20.96	8.53	12.43	0.00
S-9	01/13/1993	19000	2400	38	1700	2200	NA	NA	20.96	6.80	14.16	0.00
S-9	04/16/1993	10000	1500	<5	1100	990	NA	NA	20.96	6.28	14.68	0.00
S-9	07/23/1993	1100	400	<5	260	160	NA	NA	20.96	7.26	13.70	0.00
S-9	10/27/1993	2500	400	<5	190	110	NA	NA	20.96	8.00	12.96	0.00

WELL CONCENTRATIONS
Former Shell Service Station
15275 Washington
San Leandro, CA
Wic #204-6852-1008

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)
S-9	01/27/1994	4800	990	16	630	490	NA	NA	20.96	5.96	15.00	0.00
S-9	05/05/1994	3700	480	<5	21	120	NA	NA	20.68	6.99	13.69	0.00
S-9	07/26/1994	1000	124.6	<0.3	35.8	28.6	NA	NA	20.68	7.56	13.12	0.00
S-9	10/28/1994	979	80.3	7.0	21.7	29.2	NA	NA	20.68	7.78	12.90	0.00
S-9	01/02/1995	3900	540	2.4	350	150	NA	NA	20.68	6.29	14.39	0.00
S-9	04/14/1995	5100	1000	<10	380	230	NA	NA	20.68	5.69	14.99	0.00
S-9	07/28/1995	4600	680	<10	120	47	NA	NA	20.68	6.61	14.07	0.00
S-9	10/17/1995	1600	150	<0.5	42	15	NA	NA	20.68	7.00	13.68	0.00
S-9	01/11/1996	6800	1100	12	720	95	24	NA	20.68	6.20	14.48	0.00
S-9	04/02/1996	6000	1300	8.3	430	99	49	NA	20.68	5.19	15.49	0.00
S-9	07/09/1996	3400	680	6.7	54	31	<25	NA	20.68	6.43	14.25	0.00
S-9	10/10/1996	6600	1200	<10	160	<10	70	NA	20.68	7.08	13.60	0.00
S-9	01/09/1997	12000	1400	<25	1000	39	<125	NA	20.68	5.03	15.65	0.00
S-9	04/08/1997	6600	920	10	230	26	150	NA	20.68	6.78	13.90	0.00
S-9	07/21/1997	7800	860	13	260	14	87	NA	20.68	6.77	13.91	0.00
S-9	10/08/1997	4600	320	<10	61	<10	28	NA	20.68	6.92	13.76	0.00
S-9	01/15/1998	9300	1000	<10	730	24	<50	NA	20.68	4.50	16.18	0.00
S-9	04/14/1998	12000	1200	<2.5	960	<2.5	<12	NA	20.68	4.35	16.33	0.00
S-9	07/14/1998	12000	1700	<25	990	39	<125	NA	20.68	5.95	14.73	0.00
S-9	10/20/1998	14000	1600	<25	560	<25	340	NA	20.68	7.03	13.65	0.00
S-9	01/22/1999	9900	1030	26.7	819	27.5	46.8	NA	20.68	6.01	14.67	0.00
S-9	04/08/1999	17900	1450	<50.0	1610	73.8	<500	NA	20.68	5.25	15.43	0.00
S-9 (D)	04/02/1996	6500	1200	8.3	410	90	<20	NA	20.68	NA	NA	NA
S-9 (D)	07/09/1996	3300	730	<5.0	58	28	<25	NA	20.68	NA	NA	NA
S-9 (D)	10/10/1996	6100	1000	<10	200	15	65	NA	20.68	NA	NA	NA

WELL CONCENTRATIONS
Former Shell Service Station
15275 Washington
San Leandro, CA
Wic #204-6852-1008

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)
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S-9 (D)	04/14/1998	12000	1200	<2.5	930	<2.5	<12	NA	20.68	NA	NA	NA
S-9 (D)	07/14/1998	11000	1800	<25	650	<25	<125	NA	20.68	NA	NA	NA
S-9 (D)	10/20/1998	11000	1100	<10	230	<10	100	NA	20.68	NA	NA	NA

S-10	11/16/1988	330	0.5	<1	1.0	11	NA	NA	20.86	7.91	12.95	0.00
S-10	02/27/1989	140	<0.5	<3	2.0	6.0	NA	NA	20.86	NA	NA	NA
S-10	05/03/1989	220	<0.5	1.0	2.0	7.0	NA	NA	20.86	NA	NA	NA
S-10	08/10/1989	<50	<0.5	<1	<1	<3	NA	NA	20.86	7.94	12.92	0.00
S-10	10/09/1989	170	<0.5	<1	<1	<3	NA	NA	20.86	7.99	12.87	0.00
S-10	01/25/1990	<50	<0.5	<0.5	1.1	4.0	NA	NA	20.86	7.56	13.30	0.00
S-10	04/18/1990	<50	<0.5	0.9	<0.5	2.0	NA	NA	20.86	7.71	13.15	0.00
S-10	07/23/1990	590	<0.5	<0.5	1.9	19	NA	NA	20.86	7.64	13.22	0.00
S-10	10/18/1990	140	<0.5	0.7	<0.5	7.0	NA	NA	20.86	8.58	12.28	0.00
S-10	01/28/1991	<50	<0.5	<0.5	<0.5	0.5	NA	NA	20.86	8.35	12.51	0.00
S-10	04/25/1991	<50	<0.5	<0.5	1.1	0.8	NA	NA	20.69	6.91	13.78	0.00
S-10	07/09/1991	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	20.69	8.14	12.55	0.00
S-10	10/08/1991	140	<0.5	<0.5	<0.5	<0.5	NA	NA	20.69	8.70	11.99	0.00
S-10	02/05/1992	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	20.69	7.57	13.12	0.00
S-10	04/28/1992	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	20.69	7.20	13.49	0.00
S-10	07/27/1992	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	20.69	8.17	12.52	0.00
S-10	10/26/1992	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	20.69	8.68	12.01	0.00
S-10	01/13/1993	88	<0.5	0.6	0.6	<0.5	NA	NA	20.69	3.78	16.91	0.00
S-10	04/16/1993	80	<0.5	<0.5	<0.5	<0.5	NA	NA	20.69	6.46	14.23	0.00
S-10	07/23/1993	<50	1.5	<0.5	0.7	2.7	NA	NA	20.69	7.38	13.31	0.00
S-10	10/27/1993	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	20.69	8.09	12.60	0.00
S-10	01/27/1994	270	1.1	1.3	2.0	7.4	NA	NA	20.69	5.81	14.88	0.00

WELL CONCENTRATIONS
Former Shell Service Station
15275 Washington
San Leandro, CA
Wic #204-6852-1008

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)
S-10	05/05/1994	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	20.15	6.82	13.33	0.00
S-10	07/26/1994	<50	<0.3	<0.3	<0.3	<0.6	NA	NA	20.15	7.40	12.75	0.00
S-10	10/28/1994	<50	2.4	<0.3	0.5	0.8	NA	NA	20.15	7.62	12.53	0.00
S-10	01/02/1995	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	20.15	6.13	14.02	0.00
S-10	04/14/1995	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	20.15	5.60	14.55	0.00
S-10	07/28/1995	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	20.15	6.44	13.71	0.00
S-10	10/17/1995	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	20.15	6.85	13.30	0.00
S-10	01/11/1996	<50	<0.5	<0.5	<0.5	<0.5	<2	NA	20.15	6.08	14.07	0.00
S-10	04/02/1996	NA	NA	NA	NA	NA	NA	NA	20.15	5.21	14.94	0.00
S-10	07/09/1996	NA	NA	NA	NA	NA	NA	NA	20.15	6.20	13.95	0.00
S-10	10/10/1996	NA	NA	NA	NA	NA	NA	NA	20.15	6.92	13.23	0.00
S-10	01/09/1997	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	20.15	4.64	15.51	0.00
S-10	04/08/1997	NA	NA	NA	NA	NA	NA	NA	20.15	5.82	14.33	0.00
S-10	07/21/1997	NA	NA	NA	NA	NA	NA	NA	20.15	6.48	13.67	0.00
S-10	10/08/1997	NA	NA	NA	NA	NA	NA	NA	20.15	5.48	14.67	0.00
S-10	01/15/1998	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	20.15	3.01	17.14	0.00
S-10	04/14/1998	NA	NA	NA	NA	NA	NA	NA	20.15	4.30	15.85	0.00
S-10	07/14/1998	NA	NA	NA	NA	NA	NA	NA	20.15	5.84	14.31	0.00
S-10	10/20/1998	NA	NA	NA	NA	NA	NA	NA	20.15	6.89	13.26	0.00
S-10	01/22/1999	<50.0	<0.500	<0.500	<0.500	<0.500	<2.00	NA	20.15	6.00	14.15	0.00
S-10	04/08/1999	NA	NA	NA	NA	NA	NA	NA	20.15	4.41	15.74	0.00
S-11	11/16/1988	<50	<0.5	<1	<1	<3	NA	NA	21.26	8.62	12.64	0.00
S-11	02/27/1989	<50	<0.5	<1	<1	<3	NA	NA	21.26	NA	NA	NA
S-11	05/03/1989	<50	<0.5	<1	<1	<3	NA	NA	21.26	NA	NA	NA
S-11	08/10/1989	<50	<0.5	<1	<1	<3	NA	NA	21.26	8.65	12.61	0.00

WELL CONCENTRATIONS
Former Shell Service Station
15275 Washington
San Leandro, CA
Wic #204-6852-1008

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)
S-11	10/09/1989	<50	<0.5	<1	<1	<3	NA	NA	21.26	8.64	12.62	0.00
S-11	01/25/1990	<50	<0.5	<0.5	<0.5	<1	NA	NA	21.26	8.43	12.83	0.00
S-11	04/18/1990	<50	<0.5	<0.5	<0.5	<1	NA	NA	21.26	8.42	12.84	0.00
S-11	07/23/1990	<50	<0.5	0.6	<0.5	1.1	NA	NA	21.26	8.23	13.03	0.00
S-11	10/18/1990	<50	<0.5	<0.5	<0.5	0.5	NA	NA	21.26	9.20	12.06	0.00
S-11	01/28/1991	63	<0.5	3.3	0.9	7.0	NA	NA	21.26	9.13	12.13	0.00
S-11	04/25/1991	<50	<0.5	<0.5	0.8	<0.5	NA	NA	21.26	7.53	13.73	0.00
S-11	07/09/1991	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	21.26	8.85	12.41	0.00
S-11	10/08/1991	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	21.26	9.34	11.92	0.00
S-11	02/05/1991	NA	NA	NA	NA	NA	NA	NA	21.26	8.50	12.76	0.00
S-11	04/28/1992	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	21.26	7.80	13.46	0.00
S-11	07/27/1992	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	21.26	8.80	12.46	0.00
S-11	10/26/1992	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	21.26	9.42	11.84	0.00
S-11	01/13/1993	NA	NA	NA	NA	NA	NA	NA	21.26	6.52	14.74	0.00
S-11	04/16/1993	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	21.26	6.86	14.40	0.00
S-11	07/23/1993	NA	NA	NA	NA	NA	NA	NA	21.26	8.07	13.19	0.00
S-11	10/27/1993	Well inaccessible		NA	NA	NA	NA	NA	21.26	NA	NA	NA
S-11	01/27/1994	NA	NA	NA	NA	NA	NA	NA	21.26	NA	NA	NA
S-11	05/05/1994	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	21.24	7.73	13.51	0.00
S-11	07/26/1994	NA	NA	NA	NA	NA	NA	NA	21.24	8.30	12.94	0.00
S-11	10/28/1994	<50	<0.3	<0.3	<0.3	<0.6	NA	NA	21.24	8.30	12.94	0.00
S-11	01/02/1995	NA	NA	NA	NA	NA	NA	NA	21.24	7.25	13.99	0.00
S-11	04/14/1995	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	21.24	6.99	14.25	0.00
S-11	07/28/1995	NA	NA	NA	NA	NA	NA	NA	21.24	7.21	14.03	0.00
S-11	10/17/1995	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	21.24	7.41	13.83	0.00
S-11	01/11/1996	NA	NA	NA	NA	NA	NA	NA	21.24	6.80	14.44	0.00

WELL CONCENTRATIONS
Former Shell Service Station
15275 Washington
San Leandro, CA
Wic #204-6852-1008

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)
S-11	07/21/1997	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	21.24	7.28	13.96	0.00
S-12	11/16/1988	50	3.5	<1	<1	<3	NA	NA	21.05	NA	NA	NA
S-12	02/27/1989	<50	0.8	<1	<1	<3	NA	NA	21.05	NA	NA	NA
S-12	05/03/1989	<50	<0.5	<1	<1	<3	NA	NA	21.05	NA	NA	NA
S-12	08/10/1989	<50	<0.5	<1	<1	<3	NA	NA	21.05	8.32	12.73	0.00
S-12	10/09/1989	<50	<0.5	<1	<1	<1	NA	NA	21.05	8.32	12.73	0.00
S-12	01/25/1990	<50	<0.5	<0.5	<0.5	<1	NA	NA	21.05	8.18	12.87	0.00
S-12	04/18/1990	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	21.05	8.05	13.00	0.00
S-12	07/23/1990	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	21.05	7.92	13.13	0.00
S-12	10/18/1990	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	21.05	8.90	12.15	0.00
S-12	01/28/1991	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	21.05	8.54	12.51	0.00
S-12	04/25/1991	90	5.4	<0.5	1.1	0.7	NA	NA	21.05	7.08	13.97	0.00
S-12	07/09/1991	<50	2.9	<0.5	<0.5	<0.5	NA	NA	21.05	8.42	12.63	0.00
S-12	10/08/1991	50	<0.5	<0.5	<0.5	<0.5	NA	NA	21.05	8.80	12.25	0.00
S-12	02/05/1992	50a	<0.5	<0.5	<0.5	<0.5	NA	NA	21.05	8.07	12.98	0.00
S-12	04/28/1992	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	21.05	8.33	12.72	0.00
S-12	07/27/1992	.94	<0.5	<0.5	<0.5	<0.5	NA	NA	21.05	8.55	12.50	0.00
S-12	10/26/1992	86	<0.5	<0.5	<0.5	<0.5	NA	NA	21.05	9.03	12.02	0.00
S-12	01/14/1993	120	2.0	<0.5	<0.5	<0.5	NA	NA	21.05	6.38	14.67	0.00
S-12	04/16/1993	60	<0.5	<0.5	<0.5	<0.5	NA	NA	21.05	6.56	14.49	0.00
S-12	07/23/1993	90	<0.5	<0.5	<0.5	<0.5	NA	NA	21.05	7.76	13.29	0.00
S-12	10/27/1993	Well inaccessible		NA	NA	NA	NA	NA	21.05	NA	NA	NA
S-12	01/27/1994	Well inaccessible		NA	NA	NA	NA	NA	21.05	NA	NA	NA
S-12	05/05/1994	<50	2.0	<0.5	<0.5	<0.5	NA	NA	20.71	7.49	13.22	0.00
S-12	07/26/1994	128	<0.3	<0.3	<0.3	<0.6	NA	NA	20.71	7.92	12.79	0.00

WELL CONCENTRATIONS
Former Shell Service Station
15275 Washington
San Leandro, CA
Wic #204-6852-1008

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)
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S-12	10/28/1994	167	<0.3	<0.3	<0.3	<0.6	NA	NA	20.71	7.78	12.93	0.00
S-12	01/02/1995	50	<0.5	<0.5	<0.5	<0.5	NA	NA	20.71	7.33	13.38	0.00
S-12	04/14/1995	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	20.71	6.47	14.24	0.00
S-12	07/28/1995	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	20.71	6.90	13.81	0.00
S-12	10/17/1995	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	20.71	7.16	13.55	0.00
S-12	01/11/1996	<50	<0.5	<0.5	<0.5	<0.5	82	NA	20.71	6.65	14.06	0.00
S-12	07/21/1997	<50	<0.50	<0.50	<0.50	<0.50	45	NA	20.71	6.95	13.76	0.00

S-13	05/03/1989	150	4.9	4.0	2.0	14	NA	NA	20.57	NA	NA	NA
S-13	08/10/1989	110	2.9	<1	<1	<3	NA	NA	20.57	8.00	12.57	0.00
S-13	10/09/1989	77	1.4	<1	<1	<3	NA	NA	20.57	7.95	12.62	0.00
S-13	01/25/1990	51	0.5	<0.5	<0.5	<1	NA	NA	20.57	7.79	12.78	0.00
S-13	04/18/1990	85	8.7	<0.5	<0.5	<1	NA	NA	20.57	7.73	12.84	0.00
S-13	07/23/1990	80	0.8	<0.5	<0.5	<0.5	NA	NA	20.57	7.63	12.94	0.00
S-13	10/18/1990	130	<0.5	<0.5	<0.5	<5	NA	NA	20.57	8.58	11.99	0.00
S-13	01/28/1991	<50	<0.5	0.9	1.2	1.0	NA	NA	20.57	8.39	12.18	0.00
S-13	04/25/1991	440a	3.8	<0.5	<0.5	0.6	NA	NA	20.57	7.00	13.57	0.00
S-13	07/09/1991	320a	0.6	<0.5	<0.5	<0.5	NA	NA	20.57	8.12	12.45	0.00
S-13	10/08/1991	310	<0.5	<0.5	<0.5	<0.5	NA	NA	20.57	8.69	11.88	0.00
S-13	02/05/1992	NA	NA	NA	NA	NA	NA	NA	20.57	7.62	12.95	0.00
S-13	04/28/1992	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	20.57	7.15	13.42	0.00
S-13	07/27/1992	NA	NA	NA	NA	NA	NA	NA	20.57	8.20	12.37	0.00
S-13	10/26/1992	180	<0.5	<0.5	<0.5	<0.5	NA	NA	20.57	8.73	11.84	0.00
S-13	01/13/1993	NA	NA	NA	NA	NA	NA	NA	20.57	5.06	15.51	0.00
S-13	04/16/1993	240	4.8	<0.5	1.3	<0.5	NA	NA	20.57	6.38	14.19	0.00
S-13	07/23/1993	NA	NA	NA	NA	NA	NA	NA	20.57	7.45	13.12	0.00

WELL CONCENTRATIONS
Former Shell Service Station
15275 Washington
San Leandro, CA
Wic #204-6852-1008

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)
S-13	10/27/1993	Well inaccessible		NA	NA	NA	NA	NA	20.57	NA	NA	NA
S-13	01/27/1994	NA	NA	NA	NA	NA	NA	NA	20.57	NA	NA	NA
S-13	05/05/1994	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	20.16	6.91	13.25	0.00
S-13	07/26/1994	NA	NA	NA	NA	NA	NA	NA	20.16	7.52	12.64	0.00
S-13	10/28/1994	368	<0.3	<0.3	<0.3	<0.6	NA	NA	20.16	7.68	12.48	0.00
S-13	01/02/1995	NA	NA	NA	NA	NA	NA	NA	20.16	6.37	13.79	0.00
S-13	04/14/1995	NA	NA	NA	NA	NA	NA	NA	20.16	5.81	14.35	0.00
S-13	07/28/1995	NA	NA	NA	NA	NA	NA	NA	20.16	6.73	13.43	0.00
S-13	10/17/1995	<50	1.0	<0.5	<0.5	<0.5	NA	NA	20.16	6.94	13.22	0.00
S-13	01/11/1996	NA	NA	NA	NA	NA	NA	NA	20.16	6.20	13.96	0.00
S-13	04/02/1996	<50	<0.5	<0.5	<0.5	<0.5	<2	NA	20.16	5.28	14.88	0.00
S-13	07/09/1996	NA	NA	NA	NA	NA	NA	NA	20.16	6.35	13.81	0.00
S-13	10/10/1996	<50	<0.50	<0.50	<0.50	<0.50	210	160	20.16	7.04	13.12	0.00
S-13	01/09/1997	NA	NA	NA	NA	NA	NA	NA	20.16	5.19	14.97	0.00
S-13	04/08/1997	<50	<0.50	<0.50	<0.50	<0.50	81	NA	20.16	6.62	13.54	0.00
S-13	07/21/1997	NA	NA	NA	NA	NA	NA	NA	20.16	6.76	13.40	0.00
S-13	10/08/1997	<50	<0.50	<0.50	<0.50	<0.50	110	NA	20.16	7.05	13.11	0.00
S-13	01/15/1998	NA	NA	NA	NA	NA	NA	NA	20.16	5.27	14.89	0.00
S-13	04/14/1998	<50	<0.50	<0.50	<0.50	<0.50	3.2	NA	20.16	5.24	14.92	0.00
S-13	07/14/1998	NA	NA	NA	NA	NA	NA	NA	20.16	5.48	14.68	0.00
S-13	10/20/1998	NA	NA	NA	NA	NA	NA	NA	20.16	7.08	13.08	0.00
S-13	01/22/1999	<50.0	<0.500	<0.500	<0.500	<0.500	92.2	NA	20.16	6.65	13.51	0.00
S-13	04/08/1999	NA	NA	NA	NA	NA	NA	NA	20.16	5.61	14.55	0.00
S-14	05/03/1989	5300	750	400	200	800	NA	NA	20.44	NA	NA	NA
S-14	08/10/1989	1800	540	140	42	50	NA	NA	20.44	7.58	12.86	0.00

WELL CONCENTRATIONS
Former Shell Service Station
15275 Washington
San Leandro, CA
Wic #204-6852-1008

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)
S-14	10/09/1989	1000	360	60	20	30	NA	NA	20.44	7.62	12.82	0.00
S-14	01/25/1990	640	160	77	17	39	NA	NA	20.44	7.82	12.62	0.00
S-14	04/18/1990	1200	200	110	30	96	NA	NA	20.44	7.37	13.07	0.00
S-14	07/23/1990	5000	430	340	140	660	NA	NA	20.44	7.28	13.16	0.00
S-14	10/18/1990	1800	770	13	17	120	NA	NA	20.44	8.10	12.34	0.00
S-14	01/28/1991	720	200	36	21	78	NA	NA	20.44	8.04	12.40	0.00
S-14	04/25/1991	14000	930	430	250	970	NA	NA	20.44	6.40	14.04	0.00
S-14	07/09/1991	160	30	5.3	5	16	NA	NA	20.44	7.69	12.75	0.00
S-14	10/08/1991	5400	81	57	95	380	NA	NA	20.44	8.24	12.20	0.00
S-14	02/02/1992	NA	NA	NA	NA	NA	NA	NA	20.44	7.20	13.24	0.00
S-14	04/28/1992	2000	270	140	48	170	NA	NA	20.44	9.75	10.69	0.00
S-14	10/26/1992	920	33	12	25	88	NA	NA	20.44	8.32	12.12	0.00
S-14	01/13/1993	NA	NA	NA	NA	NA	NA	NA	20.44	5.07	15.37	0.00
S-14	04/16/1993	4500	1100	29	91	170	NA	NA	20.44	5.86	14.58	0.00
S-14	07/23/1993	NA	NA	NA	NA	NA	NA	NA	20.44	7.06	13.38	0.00
S-14	10/27/1993	Well inaccessible		NA	NA	NA	NA	NA	20.44	NA	NA	NA
S-14	01/27/1994	NA	NA	NA	NA	NA	NA	NA	20.44	NA	NA	NA
S-14	05/05/1994	810	250	<2.5	9.4	19	NA	NA	19.99	6.48	13.51	0.00
S-14	07/26/1994	NA	NA	NA	NA	NA	NA	NA	19.99	7.04	12.95	0.00
S-14	10/28/1994	5385	290.6	85.8	49.7	186.2	NA	NA	19.99	7.07	12.92	0.00
S-14	01/02/1995	NA	NA	NA	NA	NA	NA	NA	19.99	5.95	14.04	0.00
S-14	04/14/1995	1600	40	4.7	11	20	NA	NA	19.99	5.22	14.77	0.00
S-14	07/28/1995	NA	NA	NA	NA	NA	NA	NA	19.99	6.21	13.78	0.00
S-14	10/17/1995	1200	37	<0.5	7.8	11	NA	NA	19.99	6.30	13.69	0.00
S-14	01/11/1996	NA	NA	NA	NA	NA	NA	NA	19.99	5.70	14.29	0.00
S-14	07/21/1997	220	71	0.71	1.3	1.3	100	NA	19.99	6.14	13.85	0.00

WELL CONCENTRATIONS
Former Shell Service Station
15275 Washington
San Leandro, CA
Wic #204-6852-1008

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)
S-15	05/03/1989	<50	<0.5	<1	<1	<3	NA	NA	22.22	NA	NA	NA
S-15	08/10/1989	<50	<0.5	<1	<1	<3	NA	NA	22.22	8.48	13.74	0.00
S-15	10/09/1989	<50	<0.5	<1	<1	<3	NA	NA	22.22	8.46	13.76	0.00
S-15	01/25/1990	<50	<0.5	<1	<1	<1	NA	NA	22.22	8.34	13.88	0.00
S-15	04/18/1990	<50	<0.5	<0.5	<0.5	<1	NA	NA	22.22	8.45	13.77	0.00
S-15	07/23/1990	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	22.22	8.22	14.00	0.00
S-15	10/18/1990	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	22.22	9.11	13.11	0.00
S-15	01/28/1991	<50	<0.5	0.6	<0.5	0.8	NA	NA	22.22	9.13	13.09	0.00
S-15	04/25/1991	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	22.22	7.83	14.39	0.00
S-15	07/09/1991	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	22.22	8.93	13.29	0.00
S-15	10/08/1991	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	22.22	9.26	12.96	0.00
S-15	02/05/1992	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	22.22	8.60	13.62	0.00
S-15	04/28/1992	50	0.8	0.9	<0.5	1.4	NA	NA	22.22	8.09	14.13	0.00
S-15	07/27/1992	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	22.22	8.83	13.39	0.00
S-15	10/26/1992	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	22.22	9.31	12.91	0.00
S-15	01/14/1993	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	22.22	6.64	15.58	0.00
S-15	04/16/1993	<50	0.6	1.0	<0.5	0.7	NA	NA	22.22	7.14	15.08	0.00
S-15	07/23/1993	<50	1.2	<0.5	<0.5	1.6	NA	NA	22.22	8.23	13.99	0.00
S-15	10/27/1993	Well inaccessible		NA	NA	NA	NA	NA	22.22	NA	NA	NA
S-15	01/27/1994	Well inaccessible		NA	NA	NA	NA	NA	22.22	NA	NA	NA
S-15	05/05/1994	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	21.42	7.57	13.85	0.00
S-15	07/26/1994	<50	<0.3	<0.3	<0.3	<0.6	NA	NA	21.42	8.16	13.26	0.00
S-15	10/28/1994	<50	0.3	<0.3	<0.3	<0.6	NA	NA	21.42	7.87	13.55	0.00
S-15	01/02/1995	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	21.42	7.02	14.40	0.00
S-15	04/14/1995	NA	NA	NA	NA	NA	NA	NA	21.42	6.19	15.23	0.00

WELL CONCENTRATIONS
Former Shell Service Station
15275 Washington
San Leandro, CA
Wic #204-6852-1008

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)
S-15	07/28/1995	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	21.42	6.72	14.70	0.00
S-15	10/17/1995	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	21.42	7.04	14.38	0.00
S-15	01/11/1996	<50	<0.5	<0.5	<0.5	<0.5	<2	NA	21.42	6.40	15.02	0.00
S-16	05/04/1994	380	44	3.0	2.0	<3	NA	NA	21.82	NA	NA	NA
S-16	08/10/1989	<50	0.6	<1	<1	<3	NA	NA	21.82	8.36	13.46	0.00
S-16	10/10/1989	<5	<0.5	<1	<1	<3	NA	NA	21.82	8.23	13.59	0.00
S-16	01/25/1990	240	160	3.3	0.8	11	NA	NA	21.82	7.88	13.94	0.00
S-16	04/18/1990	<50	1.0	<0.5	<0.5	<1	NA	NA	21.82	8.19	13.63	0.00
S-16	07/23/1990	<50	1.1	<0.5	<0.5	<0.5	NA	NA	21.82	8.09	13.73	0.00
S-16	10/18/1990	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	21.82	8.90	12.92	0.00
S-16	01/28/1991	<50	<0.5	0.6	<0.5	0.9	NA	NA	21.82	8.55	13.27	0.00
S-16	04/25/1991	60	21	0.5	3.2	4.8	NA	NA	21.82	7.48	14.34	0.00
S-16	07/09/1991	<50	1.0	<0.5	<0.5	<0.5	NA	NA	21.82	8.48	13.34	0.00
S-16	10/08/1991	50	17	1.4	1.2	5.5	NA	NA	21.82	8.95	12.87	0.00
S-16	02/05/1992	150	65	0.7	<0.5	8.4	NA	NA	21.82	8.20	13.62	0.00
S-16	04/28/1992	<50	13	<0.5	<0.5	<0.5	NA	NA	21.82	7.80	14.02	0.00
S-16	07/27/1992	510	130	<2.5	<0.5	21	NA	NA	21.82	8.29	13.53	0.00
S-16	10/26/1992	<50	<0.5	<0.5	<2.5	<0.5	NA	NA	21.82	9.02	12.80	0.00
S-16	01/13/1993	100	25	1.9	<0.5	8.4	NA	NA	21.82	5.78	16.04	0.00
S-16	04/16/1993	150	56	1.8	4.6	12	NA	NA	21.82	6.80	15.02	0.00
S-16	07/23/1993	<50	0.9	<0.5	<0.5	<0.5	NA	NA	21.82	7.67	14.15	0.00
S-16	10/27/1993	<50	1.5	<0.5	<0.5	<0.5	NA	NA	21.82	8.52	13.30	0.00
S-16	01/27/1994	140	85	<1	<1	13	NA	NA	21.82	7.20	14.62	0.00
S-16	05/05/1994	71	25	<0.5	<0.5	4.2	NA	NA	21.24	7.76	13.48	0.00
S-16	07/26/1994	<50	<0.3	<0.3	<0.3	<0.6	NA	NA	21.24	7.84	13.40	0.00

WELL CONCENTRATIONS
Former Shell Service Station
15275 Washington
San Leandro, CA
Wic #204-6852-1008

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)
S-16	10/28/1994	<50	11.5	<0.3	<0.3	1.8	NA	NA	21.24	7.97	13.27	0.00
S-16	01/02/1995	70	64	<0.5	<0.5	4.0	NA	NA	21.24	6.49	14.75	0.00
S-16	04/14/1995	NA	NA	NA	NA	NA	NA	NA	21.24	6.08	15.16	0.00
S-16	07/28/1995	<50	1.7	<0.5	<0.5	<0.5	NA	NA	21.24	7.00	14.24	0.00
S-16	10/17/1995	<50	4.6	<0.5	<0.5	<0.5	NA	NA	21.24	7.15	14.09	0.00
S-16	01/11/1996	80	17	0.7	<0.5	2.9	<2	NA	21.24	6.30	14.94	0.00
S-16	04/02/1996	NA	NA	NA	NA	NA	NA	NA	21.24	5.84	15.40	0.00
S-16	07/09/1996	NA	NA	NA	NA	NA	NA	NA	21.24	6.72	14.52	0.00
S-16	10/10/1996	NA	NA	NA	NA	NA	NA	NA	21.24	7.41	13.83	0.00
S-16	01/09/1997	80	18	<0.50	1.7	4.8	<2.5	NA	21.24	5.60	15.64	0.00
S-16	04/08/1997	NA	NA	NA	NA	NA	NA	NA	21.24	7.34	13.90	0.00
S-16	07/21/1997	NA	NA	NA	NA	NA	NA	NA	21.24	7.20	14.04	0.00
S-16	10/08/1997	NA	NA	NA	NA	NA	NA	NA	21.24	7.34	13.90	0.00
S-16	01/15/1998	650	160	2.7	8.7	62	<12	NA	21.24	4.79	16.45	0.00
S-16	04/14/1998	NA	NA	NA	NA	NA	NA	NA	21.24	5.27	15.97	0.00
S-16	07/14/1998	NA	NA	NA	NA	NA	NA	NA	21.24	6.32	14.92	0.00
S-16	10/20/1998	NA	NA	NA	NA	NA	NA	NA	21.24	6.94	14.30	0.00
S-16	01/22/1999	Well inaccessible		NA	NA	NA	NA	NA	21.24	NA	NA	NA
S-16	04/08/1999	NA	NA	NA	NA	NA	NA	NA	21.24	5.80	15.44	NA
S-17	05/03/1989	<50	<0.5	<1	<1	<3	NA	NA	20.95	NA	NA	NA
S-17	08/10/1989	<50	<0.5	<1	<1	<3	NA	NA	20.95	8.13	12.82	0.00
S-17	10/09/1989	<50	<0.5	<1	<1	<3	NA	NA	20.95	8.18	12.77	0.00
S-17	01/25/1990	<50	<0.5	<0.5	<0.5	<1	NA	NA	20.95	7.60	13.35	0.00
S-17	04/18/1990	<50	<0.5	<0.5	<0.5	<1	NA	NA	20.95	7.95	13.00	0.00
S-17	07/23/1990	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	20.95	7.87	13.08	0.00

WELL CONCENTRATIONS
Former Shell Service Station
15275 Washington
San Leandro, CA
Wic #204-6852-1008

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)
S-17	10/18/1990	390	10	62	22	110	NA	NA	20.95	8.71	12.24	0.00
S-17	01/28/1991	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	20.95	8.54	12.41	0.00
S-17	04/25/1991	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	20.95	7.15	13.80	0.00
S-17	07/09/1991	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	20.95	8.24	12.71	0.00
S-17	10/08/1991	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	20.95	8.86	12.09	0.00
S-17	02/05/1992	NA	NA	NA	NA	NA	NA	NA	20.95	7.74	13.21	0.00
S-17	04/28/1992	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	20.95	7.41	13.54	0.00
S-17	07/27/1992	NA	NA	NA	NA	NA	NA	NA	20.95	8.34	12.61	0.00
S-17	10/26/1992	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	20.95	8.87	12.08	0.00
S-17	01/13/1993	NA	NA	NA	NA	NA	NA	NA	20.95	3.43	17.52	0.00
S-17	04/16/1993	130	<0.5	<0.5	<0.5	<0.5	NA	NA	20.95	6.70	14.25	0.00
S-17	07/23/1993	NA	NA	NA	NA	NA	NA	NA	20.95	7.53	13.42	0.00
S-17	10/27/1993	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	20.95	8.29	12.66	0.00
S-17	01/27/1994	NA	NA	NA	NA	NA	NA	NA	20.95	5.78	15.17	0.00
S-17	05/05/1994	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	20.45	6.99	13.46	0.00
S-17	07/26/1994	NA	NA	NA	NA	NA	NA	NA	20.45	7.62	12.83	0.00
S-17	10/28/1994	<50	<0.3	<0.3	<0.3	<0.6	NA	NA	20.45	7.91	12.54	0.00
S-17	01/02/1995	NA	NA	NA	NA	NA	NA	NA	20.45	6.33	14.12	0.00
S-17	04/14/1995	NA	NA	NA	NA	NA	NA	NA	20.45	5.53	14.92	0.00
S-17	07/28/1995	NA	NA	NA	NA	NA	NA	NA	20.45	6.75	13.70	0.00
S-17	10/17/1995	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	20.45	7.15	13.30	0.00
S-17	01/11/1996	NA	NA	NA	NA	NA	NA	NA	20.45	6.37	14.08	0.00
S-17	04/02/1996	<50	<0.5	<0.5	<0.5	<0.5	<2	NA	20.45	5.31	15.14	0.00
S-17	07/09/1996	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	20.45	6.30	14.15	0.00
S-17	10/10/1996	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	20.45	7.80	12.65	0.00
S-17	01/09/1997	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	20.45	4.80	15.65	0.00

WELL CONCENTRATIONS
Former Shell Service Station
15275 Washington
San Leandro, CA
Wic #204-6852-1008

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)
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S-17	04/08/1997	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	20.45	6.83	13.62	0.00
S-17	07/21/1997	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	20.45	6.78	13.67	0.00
S-17	10/08/1997	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	20.45	6.80	13.65	0.00
S-17	01/15/1998	380	<0.50	<0.50	<0.50	0.94	<2.5	NA	20.45	2.91	17.54	0.00
S-17	04/14/1998	160	<0.50	<0.50	<0.50	<0.50	<2.5	NA	20.45	4.47	15.98	0.00
S-17	07/14/1998	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	20.45	6.45	14.00	0.00
S-17	10/20/1998	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	20.45	7.11	13.34	0.00
S-17	01/22/1999	<50.0	<0.500	<0.500	<0.500	<0.500	<2.00	NA	20.45	6.01	14.44	0.00
S-17	04/08/1999	145	<0.500	<0.500	<0.500	<0.500	<5.00	NA	20.45	4.69	15.76	0.00

S-17 (D)	04/08/1997	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	20.45	NA	NA	NA
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S-18	05/31/1991	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	21.03	NA	NA	NA
S-18	07/09/1991	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	21.03	8.23	12.80	0.00
S-18	10/08/1991	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	21.03	8.84	12.19	0.00
S-18	02/05/1992	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	21.03	7.67	13.36	0.00
S-18	04/28/1992	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	21.03	7.40	13.63	0.00
S-18	07/27/1992	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	21.03	8.38	12.65	0.00
S-18	10/26/1992	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	21.03	8.83	12.20	0.00
S-18	01/13/1993	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	21.03	5.86	15.17	0.00
S-18	04/16/1993	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	21.03	4.88	16.15	0.00
S-18	07/23/1993	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	21.03	7.56	13.47	0.00
S-18	10/27/1993	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	21.03	8.30	12.73	0.00
S-18	01/27/1994	<50	1.9	<0.5	<0.5	<0.5	NA	NA	21.03	6.84	14.19	0.00
S-18	05/05/1994	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	20.57	7.05	13.52	0.00
S-18	07/26/1994	<500	<3	1.1	<0.3	1.8	NA	NA	20.57	7.62	12.95	0.00

WELL CONCENTRATIONS
Former Shell Service Station
15275 Washington
San Leandro, CA
Wic #204-6852-1008

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)
S-18	10/28/1994	<50	<0.3	<0.3	<0.3	<0.6	NA	NA	20.57	8.01	12.56	0.00
S-18	01/02/1995	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	20.57	6.26	14.31	0.00
S-18	04/14/1995	NA	NA	NA	NA	NA	NA	NA	20.57	4.85	15.72	0.00
S-18	07/28/1995	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	20.57	5.80	14.77	0.00
S-18	10/17/1995	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	20.57	7.22	13.35	0.00
S-18	01/11/1996	<50	<0.5	<0.5	<0.5	<0.5	<2	NA	20.57	6.40	14.17	0.00
S-18	04/02/1996	NA	NA	NA	NA	NA	NA	NA	20.57	4.80	15.77	0.00
S-18	07/09/1996	NA	NA	NA	NA	NA	NA	NA	20.57	5.74	14.83	0.00
S-18	10/10/1996	NA	NA	NA	NA	NA	NA	NA	20.57	6.06	14.51	0.00
S-18	01/09/1997	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	20.57	4.70	15.87	0.00
S-18	04/08/1997	NA	NA	NA	NA	NA	NA	NA	20.57	6.62	13.95	0.00
S-18	07/21/1997	NA	NA	NA	NA	NA	NA	NA	20.57	6.94	13.63	0.00
S-18	10/08/1997	NA	NA	NA	NA	NA	NA	NA	20.57	6.88	13.69	0.00
S-18	01/15/1998	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	20.57	3.60	16.97	0.00
S-18	04/14/1998	NA	NA	NA	NA	NA	NA	NA	20.57	4.28	16.29	0.00
S-18	07/14/1998	NA	NA	NA	NA	NA	NA	NA	20.57	6.13	14.44	0.00
S-18	10/20/1998	NA	NA	NA	NA	NA	NA	NA	20.57	7.20	13.37	0.00
S-18	01/22/1999	<50.0	<0.500	<0.500	<0.500	<0.500	<2.00	NA	20.57	6.00	14.57	0.00
S-18	04/08/1999	NA	NA	NA	NA	NA	NA	NA	20.57	4.95	15.62	0.00
S-19	10/20/1998	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	20.11	6.41	13.70	0.00
S-19	01/22/1999	<50.0	<0.500	<0.500	<0.500	<0.500	90.6	NA	20.11	5.42	14.69	0.00
S-19	04/08/1999	<50.0	<0.500	<0.500	<0.500	<0.500	<5.00	NA	20.11	4.61	15.50	0.00
SR-1	03/22/1989	5400	1100	230	350	1300	NA	NA	21.45	NA	NA	NA
SR-1	01/25/1990	2200	470	120	110	510	NA	NA	21.45	7.53	13.92	0.00

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SR-1	04/18/1990	1000	130	47	47	220	NA	NA	21.45	8.17	13.28	0.00
SR-1	07/23/1990	3200	470	320	170	870	NA	NA	21.45	7.58	13.87	0.00
SR-1	10/18/1990	1300	280	6.6	110	130	NA	NA	21.45	8.81	12.64	0.00
SR-1	01/28/1991	110	120	12	51	110	NA	NA	21.45	8.37	13.08	0.00
SR-1	04/25/1991	NA	NA	NA	NA	NA	NA	NA	21.45	6.91	14.54	0.00
SR-1	07/09/1991	1400	200	27	130	340	NA	NA	21.45	8.11	13.34	0.00
SR-1	10/08/1991	980	79	1.5	44	52	NA	NA	21.45	8.63	12.82	0.00
SR-1	02/05/1991	3800	580	36	320	400	NA	NA	21.45	7.68	13.77	0.00
SR-1	04/28/1992	38000	1800	460	1900	750	NA	NA	21.45	7.27	14.18	0.00
SR-1	07/27/1992	NA	NA	NA	NA	NA	NA	NA	21.45	8.11	13.34	0.01
SR-1	10/26/1992	1800	370	10	130	130	NA	NA	21.45	8.63	12.82	0.00
SR-1	01/13/1993	47000	1000	1100	1700	13000	NA	NA	21.45	5.46	15.99	0.00
SR-1	04/16/1993	25000	1700	430	2400	8300	NA	NA	21.45	6.28	15.17	0.00
SR-1	07/23/1993	33000	2400	2000	3800	14000	NA	NA	21.45	7.34	14.11	0.00
SR-1	10/27/1993	2300	340	<12.5	270	440	NA	NA	21.45	8.04	13.41	0.00
SR-1	01/27/1994	36000	2000	1700	3000	11000	NA	NA	21.45	6.68	14.77	0.00
SR-1	05/05/1994	43000	1500	130	2900	12000	NA	NA	20.57	6.81	13.76	0.00
SR-1	07/26/1994	13600	682.7	39.2	996.6	2516	NA	NA	20.57	7.38	13.19	0.00
SR-1	10/28/1994	8462	301.5	29.3	384.7	2019	NA	NA	20.57	7.48	13.09	0.00
SR-1	01/02/1995	13000	400	120	2500	10000	NA	NA	20.57	6.34	14.23	0.00
SR-1	04/14/1995	43000	690	370	2500	12000	NA	NA	20.57	5.29	15.28	0.00
SR-1	07/28/1995	35000	760	120	2300	8100	NA	NA	20.57	6.36	14.21	0.00
SR-1	10/17/1995	9700	310	12	610	1200	NA	NA	20.57	6.62	13.95	0.00
SR-1	01/11/1996	18000	410	170	1200	4400	42	NA	20.57	5.66	14.91	0.00
SR-1	04/02/1996	NA	NA	NA	NA	NA	NA	NA	20.57	5.14	15.43	0.00
SR-1	07/09/1996	Well inaccessible		NA	NA	NA	NA	NA	20.57	NA	NA	NA

WELL CONCENTRATIONS
Former Shell Service Station
15275 Washington
San Leandro, CA
Wic #204-6852-1008

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)
SR-1	10/10/1996	Well inaccessible		NA	NA	NA	NA	NA	20.57	NA	NA	NA
SR-1	01/09/1997	Well inaccessible		NA	NA	NA	NA	NA	20.57	NA	NA	NA
SR-1	04/08/1997	Well inaccessible		NA	NA	NA	NA	NA	20.57	NA	NA	NA
SR-1	07/21/1997	Well inaccessible		NA	NA	NA	NA	NA	20.57	NA	NA	NA
SR-1	10/08/1997	NA	NA	NA	NA	NA	NA	NA	20.57	6.94	13.63	0.00
SR-1	01/15/1998	8100	82	<25	36	2300	<125	NA	20.57	4.30	16.27	0.00
SR-1	04/14/1998	Well inaccessible		NA	NA	NA	NA	NA	20.57	NA	NA	NA
SR-1	07/14/1998	NA	NA	NA	NA	NA	NA	NA	20.28	6.48	13.80	0.00
SR-1	10/20/1998	NA	NA	NA	NA	NA	NA	NA	20.28	6.61	13.67	0.00
SR-1	01/22/1999	Well inaccessible		NA	NA	NA	NA	NA	20.28	NA	NA	NA
SR-1	04/08/1999	NA	NA	NA	NA	NA	NA	NA	20.28	0.97	19.31	NA
SR-1 (D)	10/17/1995	8300	230	9.6	680	840	NA	NA	20.57	NA	NA	NA
SR-1 (D)	01/11/1996	17000	420	180	1100	4000	42	NA	20.57	NA	NA	NA
SV-1 b	04/15/1998	NA	NA	NA	NA	NA	NA	NA	NA	6.02	NA	0.00
SV-1 c	04/15/1998	NA	NA	NA	NA	NA	NA	NA	NA	7.15	NA	0.00

Abbreviations:

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

BTEX = benzene, toluene, ethylbenzene, xylenes by EPA Method 8020

MTBE = methyl-tertiary-butyl ether

TOC = Top of Casing Elevation

SPH = Separate-Phase Hydrocarbons

GW = Groundwater

WELL CONCENTRATIONS
Former Shell Service Station
15275 Washington
San Leandro, CA
Wic #204-6852-1008

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)
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ug/L = parts per billion

msl = Mean sea level

ft = Feet

<n = Below detection limit

D = Duplicate sample

Notes:

a = Chromatogram pattern indicated an unidentified hydrocarbon.

b = Pre-development sample

c = Post-development sample



Sequoia Analytical

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April 26, 1999

Fran Thie
Blaine Tech Services
1680 Rogers Avenue
San Jose, CA 95112

RE: Shell(1)/L904112

Dear Fran Thie:

Enclosed are the results of analyses for sample(s) received by the laboratory on April 9, 1999. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Mike Gregory
Project Manager D.M.





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Blaine Tech Services 1680 Rogers Avenue San Jose, CA 95112	Project: Shell(1) Project Number: Shell 15275 Washington, San Leandro Project Manager: Fran Thie	Sampled: 4/8/99 Received: 4/9/99 Reported: 4/26/99
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ANALYTICAL REPORT FOR L904112

Sample Description	Laboratory Sample Number	Sample Matrix	Date Sampled
S-8	L904112-01	Water	4/8/99
S-9	L904112-02	Water	4/8/99
S-17	L904112-03	Water	4/8/99
S-19	L904112-04	Water	4/8/99





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Blaine Tech Services 1680 Rogers Avenue San Jose, CA 95112	Project: Shell(1) Project Number: Shell 15275 Washington, San Leandro Project Manager: Fran Thie	Sampled: 4/8/99 Received: 4/9/99 Reported: 4/26/99
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Sample Description: S-8
Laboratory Sample Number: L904112-01

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method/ Surrogate Limits	Reporting Limit	Result	Units	Notes*
Sequoia Analytical - San Carlos								
Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT								
Purgeable Hydrocarbons as Gasoline	9040078	4/15/99	4/15/99		50.0	684	ug/l	1
Benzene	"	"	"		0.500	10.6	"	
Toluene	"	"	"		0.500	1.27	"	
Ethylbenzene	"	"	"		0.500	9.75	"	
Xylenes (total)	"	"	"		0.500	1.03	"	
Methyl tert-butyl ether	"	"	"		5.00	10.5	"	
Surrogate: a,a,a-Trifluorotoluene	"	"	"	70.0-130		129	%	





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Blaine Tech Services 1680 Rogers Avenue San Jose, CA 95112	Project: Shell(1) Project Number: Shell 15275 Washington, San Leandro Project Manager: Fran Thie	Sampled: 4/8/99 Received: 4/9/99 Reported: 4/26/99
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Sample Description: S-9
Laboratory Sample Number: L904112-02

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method/ Surrogate Limits	Reporting Limit	Result	Units	Notes*
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Sequoia Analytical - San Carlos

Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT

Purgeable Hydrocarbons as Gasoline	9040078	4/15/99	4/15/99		5000	17900	ug/l	1
Benzene	"	"	"		50.0	1450	"	
Toluene	"	"	"		50.0	ND	"	
Ethylbenzene	"	"	"		50.0	1610	"	
Xylenes (total)	"	"	"		50.0	73.8	"	
Methyl tert-butyl ether	"	"	"		500	ND	"	
Surrogate: <i>a,a,a-Trifluorotoluene</i>	"	"	"	70.0-130		86.7	%	





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Blaine Tech Services 1680 Rogers Avenue San Jose, CA 95112	Project: Shell(1) Project Number: Shell 15275 Washington, San Leandro Project Manager: Fran Thie	Sampled: 4/8/99 Received: 4/9/99 Reported: 4/26/99
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Sample Description: S-17
Laboratory Sample Number: L904112-03

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method/ Surrogate Limits	Reporting Limit	Result	Units	Notes*
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Sequoia Analytical - San Carlos

Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT

Purgeable Hydrocarbons as Gasoline	9040085	4/16/99	4/16/99		50.0	145	ug/l	1
Benzene	"	"	"		0.500	ND	"	
Toluene	"	"	"		0.500	ND	"	
Ethylbenzene	"	"	"		0.500	ND	"	
Xylenes (total)	"	"	"		0.500	ND	"	
Methyl tert-butyl ether	"	"	"		5.00	ND	"	
Surrogate: <i>a,a,a</i> -Trifluorotoluene	"	"	"	70.0-130		93.5	%	





Sequoia Analytical

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Blaine Tech Services 1680 Rogers Avenue San Jose, CA 95112	Project: Shell(1) Project Number: Shell 15275 Washington, San Leandro Project Manager: Fran Thie	Sampled: 4/8/99 Received: 4/9/99 Reported: 4/26/99
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Sample Description: S-19
Laboratory Sample Number: L904112-04

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method/ Surrogate Limits	Reporting Limit	Result	Units	Notes*
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Sequoia Analytical - San Carlos

Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT

Purgeable Hydrocarbons as Gasoline	9040078	4/15/99	4/15/99		50.0	ND	ug/l	
Benzene	"	"	"		0.500	ND	"	
Toluene	"	"	"		0.500	ND	"	
Ethylbenzene	"	"	"		0.500	ND	"	
Xylenes (total)	"	"	"		0.500	ND	"	
Methyl tert-butyl ether	"	"	"		5.00	ND	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>	"	"	"	70.0-130		88.0	%	





Blaine Tech Services 1680 Rogers Avenue San Jose, CA 95112	Project: Shell(1) Project Number: Shell 15275 Washington, San Leandro Project Manager: Fran Thie	Sampled: 4/8/99 Received: 4/9/99 Reported: 4/26/99
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**Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT/Quality Control
Sequoia Analytical - San Carlos**

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Batch: 9040078			Date Prepared: 4/15/99			Extraction Method: EPA 5030B [P/T]				
Blank			9040078-BLK1							
Purgeable Hydrocarbons as Gasoline	4/15/99			ND	ug/l	50.0				
Benzene	"			ND	"	0.500				
Toluene	"			ND	"	0.500				
Ethylbenzene	"			ND	"	0.500				
Xylenes (total)	"			ND	"	0.500				
Methyl tert-butyl ether	"			ND	"	5.00				
Surrogate: a,a,a-Trifluorotoluene	"	10.0		7.96	"	70.0-130	79.6			
LCS			9040078-BS1							
Purgeable Hydrocarbons as Gasoline	4/15/99	250		219	ug/l	70.0-130	87.6			
Surrogate: a,a,a-Trifluorotoluene	"	10.0		7.76	"	70.0-130	77.6			
Matrix Spike			9040078-MS1 L904077-04							
Purgeable Hydrocarbons as Gasoline	4/15/99	250	ND	241	ug/l	60.0-140	96.4			
Surrogate: a,a,a-Trifluorotoluene	"	10.0		7.48	"	70.0-130	74.8			
Matrix Spike Dup			9040078-MSD1 L904077-04							
Purgeable Hydrocarbons as Gasoline	4/15/99	250	ND	236	ug/l	60.0-140	94.4	25.0	2.10	
Surrogate: a,a,a-Trifluorotoluene	"	10.0		11.3	"	70.0-130	113			
Batch: 9040085			Date Prepared: 4/16/99			Extraction Method: EPA 5030B [P/T]				
Blank			9040085-BLK1							
Purgeable Hydrocarbons as Gasoline	4/16/99			ND	ug/l	50.0				
Benzene	"			ND	"	0.500				
Toluene	"			ND	"	0.500				
Ethylbenzene	"			ND	"	0.500				
Xylenes (total)	"			ND	"	0.500				
Methyl tert-butyl ether	"			ND	"	5.00				
Surrogate: a,a,a-Trifluorotoluene	"	10.0		9.63	"	70.0-130	96.3			
LCS			9040085-BS1							
Benzene	4/16/99	10.0		10.6	ug/l	70.0-130	106			
Toluene	"	10.0		11.3	"	70.0-130	113			
Ethylbenzene	"	10.0		11.6	"	70.0-130	116			
Xylenes (total)	"	30.0		33.0	"	70.0-130	110			
Surrogate: a,a,a-Trifluorotoluene	"	10.0		9.70	"	70.0-130	97.0			
Matrix Spike			9040085-MS1 L904130-05							
Benzene	4/16/99	10.0	ND	10.5	ug/l	60.0-140	105			
Toluene	"	10.0	ND	10.5	"	60.0-140	105			



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Blaine Tech Services 1680 Rogers Avenue San Jose, CA 95112	Project: Shell(1) Project Number: Shell 15275 Washington, San Leandro Project Manager: Fran Thie	Sampled: 4/8/99 Received: 4/9/99 Reported: 4/26/99
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Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT/Quality Control
Sequoia Analytical - San Carlos

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Matrix Spike (continued)		9040085-MS1	L904130-05							
Ethylbenzene	4/16/99	10.0	ND	11.1	ug/l	60.0-140	111			
Xylenes (total)	"	30.0	ND	32.7	"	60.0-140	109			
Surrogate: <i>a,a,a</i> -Trifluorotoluene	"	10.0		9.35	"	70.0-130	93.5			
Matrix Spike Dup		9040085-MSD1	L904130-05							
Benzene	4/16/99	10.0	ND	9.52	ug/l	60.0-140	95.2	25.0	9.79	
Toluene	"	10.0	ND	9.50	"	60.0-140	95.0	25.0	10.0	
Ethylbenzene	"	10.0	ND	10.0	"	60.0-140	100	25.0	10.4	
Xylenes (total)	"	30.0	ND	30.1	"	60.0-140	100	25.0	8.61	
Surrogate: <i>a,a,a</i> -Trifluorotoluene	"	10.0		7.97	"	70.0-130	79.7			



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Blaine Tech Services 1680 Rogers Avenue San Jose, CA 95112	Project: Shell(1) Project Number: Shell 15275 Washington, San Leandro Project Manager: Fran Thie	Sampled: 4/8/99 Received: 4/9/99 Reported: 4/26/99
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Notes and Definitions

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



EQUIVA WELL MONITORING DATA SHEET

Project #: 990408-K3	Job # 204-6892-1008
Sampler: Mark	Date: 4/8/99
Well I.D.: S-9	Well Diameter: 2 (3) 4 6 8
Total Well Depth: 5.73	Depth to Water: 5.25
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): YSI HACH

Well Diameter	Multiplier	Well Diameter	Multiplier
2"	0.16	5"	1.02
3"	0.37	6"	1.47
4"	0.65	Other	radius * 0.163

Purge Method: **Bailer** Sampling Method: **2-1/2" Bailer**
Middleburg **Extraction Port**
Electric Submersible **Other: _____**
Extraction Pump
Other: _____

_____	X	_____	=	_____	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
		No	Purge			
1248	62.1	6.9	991	7.1	—	OK

Did well dewater? Yes No Gallons actually evacuated: **—**

Sampling Time: **1250** Sampling Date: **4/8/99**

Sample I.D.: **S-9** Laboratory: **(Sequon)** EC Other: _____

Analyzed for: **(TPH-G BTEX MTBE)** TPH-D Other: _____

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

EQUIVA WELL MONITORING DATA SHEET

Project #: <u>990408-K3</u>	Job # <u>294-6892-1008</u>
Sampler: <u>Mark</u>	Date: <u>4/8/99</u>
Well I.D.: <u>S-17</u>	Well Diameter: 2 <input type="checkbox"/> 3 <input checked="" type="checkbox"/> 4 <input type="checkbox"/> 6 <input type="checkbox"/> 8 <input type="checkbox"/>
Total Well Depth: <u>23.91</u>	Depth to Water: <u>4.69</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <input checked="" type="checkbox"/> PVC <input type="checkbox"/> Grade	D.O. Meter (if req'd): <input type="checkbox"/> YSI <input type="checkbox"/> HACH

Well Diameter	Multiplier	Well Diameter	Multiplier
2"	0.16	5"	1.02
3"	0.37	6"	1.47
4"	0.65	Other	radius ² * 0.163

Purge Method: Bailer Middleburg Electric Submersible Extraction Pump Other: _____

Sampling Method: ~~Bailer~~ Extraction Port Other: _____

_____	X	_____	=	_____	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
		<u>6.0</u>	<u>Purge</u>			
<u>1210</u>	<u>58.9</u>	<u>6.9</u>	<u>728</u>	<u>4.1</u>	<u>—</u>	

Did well dewater? Yes No Gallons actually evacuated: —

Sampling Time: 1215 Sampling Date: 4/8/99

Sample I.D.: S-17 Laboratory: Sequoia BC Other: _____

Analyzed for: TPH-G BTEX MTBE TPH-D Other: _____

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

EQUIVA WELL MONITORING DATA SHEET

Project #: 990408-K3	Job #: 204-6892-1008
Sampler: Wak	Date: 4/8/99
Well I.D.: 5-19	Well Diameter: (2) 3 4 6 8
Total Well Depth: 20.25	Depth to Water: 4.61
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): YSI HACH

Well Diameter	Multiplier	Well Diameter	Multiplier
2"	0.16	3"	1.02
3"	0.37	6"	1.47
4"	0.65	Other	radius ² * 0.163

Purge Method: Bailor Middleburg Electric Submersible Extraction Pump Other: _____

Sampling Method: **(2) Bailor** Extraction Port Other: _____

_____	X	_____	=	_____	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
		No	Purge			
1224	60.1	6.6	970	3.8	—	

Did well dewater? Yes **(No)** Gallons actually evacuated: **—**

Sampling Time: **1225** Sampling Date: **4/8/99**

Sample I.D.: **5-19** Laboratory: **(Sequoia)** BC Other: _____

Analyzed for: **(TPH-G BTEX MTBE)** TPH-D Other: _____

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

ATTACHMENT B

Analytical Reports for Soil Vapor Sampling



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

Project: Shell 15275 Washington Ave.


Enclosed are the results from samples received at Sequoia Analytical on April 22, 1999.
The requested analyses are listed below:

<u>SAMPLE #</u>	<u>SAMPLE DESCRIPTION</u>	<u>DATE COLLECTED</u>	<u>TEST METHOD</u>
9904920 -01	AIR, Inf	04/21/99	Purgeable TPH/BTEX (Air)
9904920 -02	AIR, Eff	04/21/99	Purgeable TPH/BTEX (Air)

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

Very truly yours,

SEQUOIA ANALYTICAL


Project Manager





Sequoia Analytical

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Cambria 1144 65th St. Suite C Oakland, CA 94608 Attention: Darryk Ataide	Client Proj. ID: Shell 15275 Washington Ave. Sample Descript: Inf Matrix: AIR Analysis Method: 8015Mod/8020 Lab Number: 9904920-01	Sampled: 04/21/99 Received: 04/22/99 Analyzed: 04/23/99 Reported: 04/27/99
---	--	---

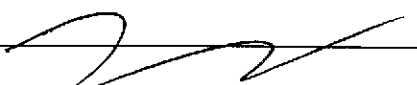
QC Batch Number: GC042399BTEX30A
Instrument ID: GCHP30

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit ppmv	Sample Results ppmv
TPPH as Gas	5.7	31
Benzene	0.063	N.D.
Toluene	0.053	0.18
Ethyl Benzene	0.046	0.083
Xylenes (Total)	0.046	0.28
Chromatogram Pattern: Unidentified HC		C6-C12
Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	139 Q

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

SEQUOIA ANALYTICAL - ELAP #1210


Project Manager





Sequoia Analytical

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Cambria 1144 65th St. Suite C Oakland, CA 94608 Attention: Darryk Ataide	Client Proj. ID: Shell 15275 Washington Ave. Sample Descript: Eff Matrix: AIR Analysis Method: 8015Mod/8020 Lab Number: 9904920-02	Sampled: 04/21/99 Received: 04/22/99 Analyzed: 04/23/99 Reported: 04/27/99
---	--	---


QC Batch Number: GC042399BTEX30A
 Instrument ID: GCHP30

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit ppmv	Sample Results ppmv
TPPH as Gas	2.8	N.D.
Benzene	0.031	N.D.
Toluene	0.027	N.D.
Ethyl Benzene	0.023	N.D.
Xylenes (Total)	0.023	N.D.
Chromatogram Pattern:		
Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	111

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

SEQUOIA ANALYTICAL - ELAP #1210


 Project Manager





Sequoia Analytical

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

Client Project ID: 9904920-01-02

QC Sample Group: 9904498-01-11

Reported: Apr 28, 1999

QUALITY CONTROL DATA REPORT

Matrix: Liquid
Method: EPA 8020
Analyst: JAB

ANALYTE	Benzene	Toluene	Ethylbenzene	Xylenes
---------	---------	---------	--------------	---------

QC Batch #: GC042399BTEX30A

Sample No.: GW9904753-8

	4/23/99	4/23/99	4/23/99	4/23/99
Date Prepared:	4/23/99	4/23/99	4/23/99	4/23/99
Date Analyzed:	4/23/99	4/23/99	4/23/99	4/23/99
Instrument I.D.#:	GCHP30	GCHP30	GCHP30	GCHP30
Sample Conc., ug/L:	N.D.	N.D.	N.D.	N.D.
Conc. Spiked, ug/L:	10	10	10	30
Matrix Spike, ug/L:	10.0	10.0	10.0	31
% Recovery:	100.0	100.0	100.0	103
Matrix Duplicate, ug/L:	9.7	9.6	9.5	29
% Recovery:	97	96	95	97
Relative % Difference:	3.0	4.1	5.1	6.0
RPD Control Limits:	0-25	0-25	0-25	0-25

LCS Batch#: GC042399BTEX30A

	4/23/99	4/23/99	4/23/99	4/23/99
Date Prepared:	4/23/99	4/23/99	4/23/99	4/23/99
Date Analyzed:	4/23/99	4/23/99	4/23/99	4/23/99
Instrument I.D.#:	GCHP30	GCHP30	GCHP30	GCHP30
Conc. Spiked, ug/L:	10	10	10	30
LCS Recovery, ug/L:	10.0	10.0	10.0	31
LCS % Recovery:	100.0	100.0	100.0	103

Percent Recovery Control Limits:

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

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

Please Note:

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

SEQUOIA ANALYTICAL

Kayvan Kimyai
Project Manager





Sequoia Analytical

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

Client Proj. ID: Shell 15275 Washington Ave.

Received: 04/22/99

Lab Proj. ID: 9904920

Reported: 04/27/99

LABORATORY NARRATIVE

In order to properly interpret this report, it must be reproduced in its entirety. This report contains a total of 4 pages including the laboratory narrative, sample results, quality control, and related documents as required (cover page, COC, raw data, etc.).

EPA Method 8020/8015 (mod.) - Gas:

Sample 9904920-01 had a high surrogate recovery due to the sample's matrix effect.

SEQUOIA ANALYTICAL

Project Manager 





Sequoia Analytical

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 FAX (707) 792-0342
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Cambria 1144 65th St. Suite C Oakland, CA 94608	Client Proj. ID: Shell 15275 Washington Ave. Sample Descript: Inf Matrix: AIR Analysis Method: 8015Mod/8020 Lab Number: 9904920-01	Sampled: 04/21/99 Received: 04/22/99 Analyzed: 04/23/99 Reported: 04/27/99
Attention: Darryk Ataide		

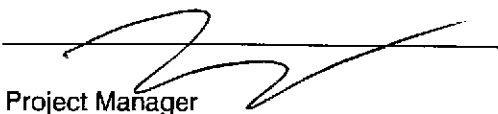
QC Batch Number: GC042399BTEX30A
 Instrument ID: GCHP30

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	20	110
Benzene	0.20	N.D.
Toluene	0.20	0.66
Ethyl Benzene	0.20	0.36
Xylenes (Total)	0.20	1.2
Chromatogram Pattern: Unidentified HC		C6-C12
Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	139 Q

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

SEQUOIA ANALYTICAL - ELAP #1210


 Project Manager





Sequoia Analytical

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

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

(650) 364-9600
(925) 988-9600
(916) 921-9600
(707) 792-1865
(650) 232-9600

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

Cambria 1144 65th St. Suite C Oakland, CA 94608 Attention: Darryk Ataide	Client Proj. ID: Shell 15275 Washington Ave. Sample Descript: Eff Matrix: AIR Analysis Method: 8015Mod/8020 Lab Number: 9904920-02	Sampled: 04/21/99 Received: 04/22/99 Analyzed: 04/23/99 Reported: 04/27/99
---	--	---

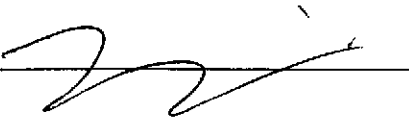
QC Batch Number: GC042399BTEX30A
Instrument ID: GCHP30

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	10	N.D.
Benzene	0.10	N.D.
Toluene	0.10	N.D.
Ethyl Benzene	0.10	N.D.
Xylenes (Total)	0.10	N.D.
Chromatogram Pattern:		
Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	111

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

SEQUOIA ANALYTICAL - ELAP #1210


Project Manager





SHELL OIL COMPANY
RETAIL ENVIRONMENTAL ENGINEERING - WEST

CHAIN OF CUSTODY RECORD

Serial No: 990408-K7

Date: _____
 Page 1 of 1

Site Address: 15275 Washington, San Leandro

WIC#: 204-6852-1008

Shell Engineer: Alex Perez
 Phone No.: (510) 675-6168
 Fax #: 675-6172

Consultant Name & Address: Blaine Tech Services, Inc.
 1680 Rogers Ave., San Jose, CA 95112

Consultant Contact: Fran Thie
 Phone No.: (408) 573-0555
 Fax #: 573-7771

Comments: 1904112

Sampled by: [Signature]
 Printed Name: Mark Spandler

Analysis Required

LAB: Sequoia

Sample ID	Date	Sludge	Soil	Water	Alr	No. of conis.	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? 21
S-8	4/19/99			6		W						X						
S-9	↓			↓		W						X						
S-17	↓			↓		W						X						
S-19	↓			↓		W						X						

CHECK ONE (1) BOX ONLY	C1/D1	TURN AROUND TIME
Quarterly Monitoring <input checked="" type="checkbox"/> 6461		24 hours <input type="checkbox"/>
Site Investigation <input type="checkbox"/> 6441		48 hours <input type="checkbox"/>
Soil Classfy/Disposal <input type="checkbox"/> 6442		16 days <input checked="" type="checkbox"/> (Harmful)
Water Classfy/Disposal <input type="checkbox"/> 6443		Other <input type="checkbox"/>
Soil/Air Rem. or Sys. O & M <input type="checkbox"/> 6462		
Water Rem. or Sys. O & M <input type="checkbox"/> 6463		
Other <input type="checkbox"/>		

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

Relinquished By (signature): <u>[Signature]</u>	Printed Name: <u>Mark Spandler</u>	Date: <u>4/19/99</u>	Time: <u>3:33</u>	Received (signature): <u>[Signature]</u>	Printed Name: <u>Fletcher</u>	Date: <u>4/19/99</u>	Time: <u>4:55</u>
Relinquished By (signature): <u>[Signature]</u>	Printed Name: _____	Date: <u>4/19/99</u>	Time: _____	Received (signature): <u>[Signature]</u>	Printed Name: <u>Phil Burton</u>	Date: <u>4-12</u>	Time: <u>1:50</u>
Relinquished By (signature): <u>[Signature]</u>	Printed Name: <u>Phil Burton</u>	Date: <u>4-12</u>	Time: <u>1:45</u>	Received (signature): <u>[Signature]</u>	Printed Name: <u>GERT</u>	Date: <u>4/19/99</u>	Time: <u>12:27</u>

9
02
03
04



SHELL OIL COMPANY
RETAIL ENVIRONMENTAL ENGINEERING - WEST

CHAIN OF CUSTODY RECORD
Serial No: _____

Date: 4-21-99
Page 1 of 1

Site Address: 15275 WASHINGTON AVE, SAN LEANDRO

WIC#: 204-6852-1108

Shell Engineer: DENIS BROWN
Phone No.: 415 850-7289
Fax #:

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

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

Comments:

Sampled by: BRIAN BUSCH

Printed Name: 99 04 920

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
					X		12	Ø	NO
					X		↓	↓	↓

LAB: SEQUOIA

CHECK ONE (1) BOX ONLY	CF/DI	TURN AROUND TIME
G.W. Monitoring <input type="checkbox"/>	4441	24 hours <input type="checkbox"/>
Site Investigation <input type="checkbox"/>	4441	48 hours <input type="checkbox"/>
Soil Classify/Disposal <input type="checkbox"/>	4442	16 days <input checked="" type="checkbox"/> (Noncont)
Water Classify/Disposal <input type="checkbox"/>	4443	Other <input type="checkbox"/>
Soil/Air Rem. or Sys. O & M <input checked="" type="checkbox"/>	4452	NOTE: Monthly Lab no more than possible of 24/48 hrs. TAT.
Water Rem. or Sys. O & M <input type="checkbox"/>	4453	
Other <input type="checkbox"/>		

UST AGENCY:

Sample ID	Date	Sludge	Soil	Water	Air	No. of conls.	MATERIAL DESCRIPTION	SAMPLE CONDITION/ COMMENTS
INF	4-21-99				X	2	SOIL VAPOR	please report
EFF	↓				X	2	↓	results in ppm 54

Relinquished By (signature): <i>Brian Busch</i>	Printed Name: BRIAN BUSCH	Date: 4/22/99	Received (signature): <i>[Signature]</i>	Printed Name: Fletcher	Date: 4/22/99
Relinquished By (signature): <i>[Signature]</i>	Printed Name:	Date: 4/22/99	Received (signature):	Printed Name:	Date:
Relinquished By (signature):	Printed Name:	Date:	Received (signature): <i>[Signature]</i>	Printed Name: Anna DeMare	Date: 4/22/99

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



Sequoia Analytical

1455 McDowell Blvd. North, Ste. D
Petaluma, CA 94954
(707) 792-1865
FAX (707) 792-0342

June 7, 1999

Darryk Ataide
Cambria Environmental - Oakland
1144 65th St., Suite C
Oakland, CA 94608

RE: Shell Oil Co./P905765

Dear Darryk Ataide

Enclosed are the results of analyses for sample(s) received by the laboratory on May 28, 1999. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Scott Forbes
Project Manager

CA ELAP Certificate Number 2245





Cambria Environmental - Oakland 1144 65th St., Suite C Oakland, CA 94608	Project: Shell Oil Co. Project Number: 15275 Washington, San Leandro Project Manager: Darryk Ataide	Sampled: 5/28/99 Received: 5/28/99 Reported: 6/7/99
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ANALYTICAL REPORT FOR P905765

Sample Description	Laboratory Sample Number	Sample Matrix	Date Sampled
INF	P905765-01	Air	5/28/99
EFF	P905765-02	Air	5/28/99





Cambria Environmental - Oakland 1144 65th St., Suite C Oakland, CA 94608	Project: Shell Oil Co. Project Number: 15275 Washington, San Leandro Project Manager: Darryk Ataide	Sampled: 5/28/99 Received: 5/28/99 Reported: 6/7/99
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**Total Petroleum Hydrocarbons as Gasoline and BTEX by EPA 8015M/8020M
 Sequoia Analytical - Petaluma**

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
INF				<u>P905765-01</u>			<u>Air</u>	
Gasoline	9050898	5/29/99	5/29/99		20.0	194	ug/l	
Gasoline (ppmv, MW 86.2)	"	"	"		5.68	55.0	ppmv	
Benzene	"	"	"		0.200	ND	ug/l	
Benzene (ppmv)	"	"	"		0.0628	ND	ppmv	
Toluene	"	"	"		0.200	ND	ug/l	
Toluene (ppmv)	"	"	"		0.0532	ND	ppmv	
Ethylbenzene	"	"	"		0.200	0.604	ug/l	
Ethylbenzene (ppmv)	"	"	"		0.0460	0.139	ppmv	
Xylenes (total)	"	"	"		0.200	ND	ug/l	
Xylenes (total) (ppmv)	"	"	"		0.0460	ND	ppmv	
Methyl tert-butyl ether (ppmv)	"	"	"		0.222	ND	"	
Surrogate: a,a,a-Trifluorotoluene	"	"	"	65.0-135		105	%	
Surrogate: 4-Bromofluorobenzene	"	"	"	65.0-135		99.0	"	
EFF				<u>P905765-02</u>			<u>Air</u>	
Gasoline	9050898	5/29/99	5/29/99		10.0	ND	ug/l	
Gasoline (ppmv, MW 86.2)	"	"	"		2.84	ND	ppmv	
Benzene	"	"	"		0.100	ND	ug/l	
Benzene (ppmv)	"	"	"		0.0314	ND	ppmv	
Toluene	"	"	"		0.100	ND	ug/l	
Toluene (ppmv)	"	"	"		0.0266	ND	ppmv	
Ethylbenzene	"	"	"		0.100	ND	ug/l	
Ethylbenzene (ppmv)	"	"	"		0.0230	ND	ppmv	
Xylenes (total)	"	"	"		0.100	ND	ug/l	
Xylenes (total) (ppmv)	"	"	"		0.0230	ND	ppmv	
Methyl tert-butyl ether (ppmv)	"	"	"		0.111	ND	"	
Surrogate: a,a,a-Trifluorotoluene	"	"	"	65.0-135		102	%	
Surrogate: 4-Bromofluorobenzene	"	"	"	65.0-135		94.7	"	





Cambria Environmental - Oakland 1144 65th St., Suite C Oakland, CA 94608	Project: Shell Oil Co. Project Number: 15275 Washington, San Leandro Project Manager: Darryk Ataide	Sampled: 5/28/99 Received: 5/28/99 Reported: 6/7/99
--	---	---

**Total Petroleum Hydrocarbons as Gasoline and BTEX by EPA 8015M/8020M/Quality Control
Sequoia Analytical - Petaluma**

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Batch: 9050898		Date Prepared: 5/29/99			Extraction Method: EPA 5030 waters					
Blank		9050898-BLK1								
Gasoline	5/29/99			ND	ug/l	50.0				
Benzene	"			ND	"	0.500				
Toluene	"			ND	"	0.500				
Ethylbenzene	"			ND	"	0.500				
Xylenes (total)	"			ND	"	0.500				
Surrogate: a,a,a-Trifluorotoluene	"	300		305	"	65.0-135	102			
Surrogate: 4-Bromofluorobenzene	"	300		278	"	65.0-135	92.7			
LCS		9050898-BS1								
Gasoline	5/29/99	1000		919	ug/l	65.0-135	91.9			
Surrogate: 4-Bromofluorobenzene	"	300		281	"	65.0-135	93.7			
Matrix Spike		9050898-MS1		P905614-01						
Gasoline	5/29/99	1000	ND	958	ug/l	65.0-135	95.8			
Surrogate: 4-Bromofluorobenzene	"	300		279	"	65.0-135	93.0			
Matrix Spike Dup		9050898-MSD1		P905614-01						
Gasoline	5/29/99	1000	ND	938	ug/l	65.0-135	93.8	20.0	2.11	
Surrogate: 4-Bromofluorobenzene	"	300		282	"	65.0-135	94.0			





Cambria Environmental - Oakland 1144 65th St., Suite C Oakland, CA 94608	Project: Shell Oil Co. Project Number: 15275 Washington, San Leandro Project Manager: Darryk Ataide	Sampled: 5/28/99 Received: 5/28/99 Reported: 6/7/99
--	---	---

Notes and Definitions

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





SHELL OIL COMPANY
RETAIL ENVIRONMENTAL ENGINEERING - WEST

CHAIN OF CUSTODY RECORD

Serial No: _____

Date: 5/28/99

Page 1 of 1

Site Address: 15275 WASHINGTON, SAN LEANDRO

Incident No. 97088270

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

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

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

Comments:

Sampled by: BRIAN BUSCH

Printed Name:

Analysis Required

TPH (EPA 8015 Mod. Gas)	TPH (EPA 8015 Mod. Diesel)	BTEX (EPA 8020/8022)	Volatile Organics (EPA 8240)	Test for Disposal	Combination TPH 8015 & BTEX 8020	Asbestos	Container Size	Preparation Used	Composite Y/N

LAB: SEQVOIA

CHECK ONE (1) BOX ONLY	C1/D1	TURN AROUND TIME
G.W. Monitoring <input type="checkbox"/>	4461	24 hours <input type="checkbox"/>
Site Investigation <input type="checkbox"/>	4441	48 hours <input type="checkbox"/>
Soil Classify/Dispense <input type="checkbox"/>	4442	16 days <input checked="" type="checkbox"/> (Normal)
Water Classify/Dispense <input type="checkbox"/>	4443	Other <input type="checkbox"/>
Soil/Air Rem. or Sys. O & M <input checked="" type="checkbox"/>	4452	
Water Rem. or Sys. O & M <input type="checkbox"/>	4453	
Other <input type="checkbox"/>		

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

UST AGENCY:

Sample ID	Date	Sludge	Soil	Water	Air	No. of conls.	TPH (EPA 8015 Mod. Gas)	TPH (EPA 8015 Mod. Diesel)	BTEX (EPA 8020/8022)	Volatile Organics (EPA 8240)	Test for Disposal	Combination TPH 8015 & BTEX 8020	Asbestos	Container Size	Preparation Used	Composite Y/N
INF	5/28/99				X	1						X		12	0	NO
EFF	↓				X	1						X		12	0	↓

MATERIAL DESCRIPTION	SAMPLE CONDITION/ COMMENTS
SOIL VAPOR	
↓	

COOLER CUSTODY SEALS INTACT NO INITIAL COOLER TEMPERATURE _____ °F

Relinquished By (signature): <i>Brian Busch</i>	Printed Name: BRIAN BUSCH	Date: 5/28/99	Received (signature): <i>C. Mainaris</i>	Printed Name: C. Mainaris Seq.	Date: 5-28-99
Relinquished By (signature): <i>C. Mainaris</i>	Printed Name: C. Mainaris	Date: 5/28/99	Received (signature):	Printed Name:	Time: 1115
Relinquished By (signature):	Printed Name:	Date:	Received (signature):	Printed Name:	Time:

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



Sequoia Analytical

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

July 11, 1999

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

RE: Shell(1)/L906307

Dear Darryk Ataid:

Enclosed are the results of analyses for sample(s) received by the laboratory on June 25, 1999. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Tim Costello
Lab Director

CA ELAP Certificate Number I-2360





Cambria Environmental 1144 65th St., Suite C. Oakland, CA 94608	Project: Shell(1) Project Number: Shell 15275 Washington Ave. Project Manager: Darryk Ataid	Sampled: 6/24/99 Received: 6/25/99 Reported: 7/11/99
---	---	--

ANALYTICAL REPORT FOR L906307

Sample Description	Laboratory Sample Number	Sample Matrix	Date Sampled
INF	L906307-01	Air	6/24/99
EFF	L906307-02	Air	6/24/99





Sequoia Analytical

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

Cambria Environmental 1144 65th St., Suite C. Oakland, CA 94608	Project: Shell(1) Project Number: Shell 15275 Washington Ave. Project Manager: Darryk Ataid	Sampled: 6/24/99 Received: 6/25/99 Reported: 7/11/99
---	---	--

Sample Description: **INF**
 Laboratory Sample Number: **L906307-01**

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method/ Surrogate Limits	Reporting Limit	Result	Units	Notes*
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Sequoia Analytical - San Carlos

Total Purgeable Hydrocarbons (C6-C12) and BTEX by DHS LUFT								
Purgeable Hydrocarbons as Gasoline	9070011	7/2/99	7/2/99		50.0	361	ug/l	3
Benzene	"	"	"		0.500	0.682	"	1
Toluene	"	"	"		0.500	ND	"	
Ethylbenzene	"	"	"		0.500	1.94	"	
Xylenes (total)	"	"	"		0.500	1.65	"	
Surrogate: a,a,a-Trifluorotoluene	"	"	"	60.0-140		114	%	





Cambria Environmental 1144 65th St., Suite C. Oakland, CA 94608	Project: Shell(1) Project Number: Shell 15275 Washington Ave. Project Manager: Darryk Ataid	Sampled: 6/24/99 Received: 6/25/99 Reported: 7/11/99
---	---	--

Sample Description: EFF
Laboratory Sample Number: L906307-02

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method/ Surrogate Limits	Reporting Limit	Result	Units	Notes*
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Sequoia Analytical - San Carlos

Total Purgeable Hydrocarbons (C6-C12) and BTEX by DHS LUFT								3
Purgeable Hydrocarbons as Gasoline	9060161	6/29/99	6/29/99		10.0	ND	ug/l	
Benzene	"	"	"		0.100	ND	"	
Toluene	"	"	"		0.100	ND	"	
Ethylbenzene	"	"	"		0.100	ND	"	
Xylenes (total)	"	"	"		0.100	ND	"	
Surrogate: <i>a,a,a-Trifluorotoluene</i>	"	"	"	60.0-140		91.2	%	





Cambria Environmental 1144 65th St., Suite C. Oakland, CA 94608	Project: Shell(1) Project Number: Shell 15275 Washington Ave. Project Manager: Darryk Ataid	Sampled: 6/24/99 Received: 6/25/99 Reported: 7/11/99
---	---	--

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

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Batch: 9060161		Date Prepared: 6/29/99		Extraction Method: EPA 5030B IP/T						
Blank										
Purgeable Hydrocarbons as Gasoline	6/29/99			ND	ug/l	50.0				
Benzene	"			ND	"	0.500				
Toluene	"			ND	"	0.500				
Ethylbenzene	"			ND	"	0.500				
Xylenes (total)	"			ND	"	0.500				
Surrogate: a,a,a-Trifluorotoluene	"	10.0		9.64	"	60.0-140	96.4			
LCS										
Purgeable Hydrocarbons as Gasoline	6/29/99	250		216	ug/l	70.0-130	86.4			
Surrogate: a,a,a-Trifluorotoluene	"	10.0		14.1	"	60.0-140	141			2
Matrix Spike		9060161-MS1	L906334-04							
Purgeable Hydrocarbons as Gasoline	6/29/99	250	161	343	ug/l	60.0-140	72.8			
Surrogate: a,a,a-Trifluorotoluene	"	10.0		9.21	"	60.0-140	92.1			
Matrix Spike Dup		9060161-MSD1	L906334-04							
Purgeable Hydrocarbons as Gasoline	6/29/99	250	161	345	ug/l	60.0-140	73.6	25.0	1.09	
Surrogate: a,a,a-Trifluorotoluene	"	10.0		9.27	"	60.0-140	92.7			
Batch: 9070011		Date Prepared: 7/2/99		Extraction Method: EPA 5030B IP/T						
Blank										
Purgeable Hydrocarbons as Gasoline	7/2/99			ND	ug/l	50.0				
Benzene	"			ND	"	0.500				
Toluene	"			ND	"	0.500				
Ethylbenzene	"			ND	"	0.500				
Xylenes (total)	"			ND	"	0.500				
Surrogate: a,a,a-Trifluorotoluene	"	10.0		9.59	"	60.0-140	95.9			
LCS										
Benzene	7/2/99	10.0		9.05	ug/l	70.0-130	90.5			
Toluene	"	10.0		9.24	"	70.0-130	92.4			
Ethylbenzene	"	10.0		9.48	"	70.0-130	94.8			
Xylenes (total)	"	30.0		28.3	"	70.0-130	94.3			
Surrogate: a,a,a-Trifluorotoluene	"	10.0		9.29	"	60.0-140	92.9			
Matrix Spike		9070011-MS1	L906310-02							
Benzene	7/3/99	10.0	ND	9.49	ug/l	60.0-140	94.9			
Toluene	"	10.0	ND	9.81	"	60.0-140	98.1			
Ethylbenzene	"	10.0	ND	9.98	"	60.0-140	99.8			
Xylenes (total)	"	30.0	ND	29.4	"	60.0-140	98.0			





Cambria Environmental 1144 65th St., Suite C. Oakland, CA 94608	Project: Shell(1) Project Number: Shell 15275 Washington Ave. Project Manager: Darryk Ataid	Sampled: 6/24/99 Received: 6/25/99 Reported: 7/11/99
---	---	--

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

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Matrix Spike (continued)	9070011-MS1		L906310-02							
<i>Surrogate: a,a,a-Trifluorotoluene</i>	7/3/99	10.0		9.73	ug/l	60.0-140	97.3			
Matrix Spike Dup	9070011-MSD1		L906310-02							
Benzene	7/3/99	10.0	ND	8.76	ug/l	60.0-140	87.6	25.0	8.00	
Toluene	"	10.0	ND	9.00	"	60.0-140	90.0	25.0	8.61	
Ethylbenzene	"	10.0	ND	8.92	"	60.0-140	89.2	25.0	11.2	
Xylenes (total)	"	30.0	ND	26.3	"	60.0-140	87.7	25.0	11.1	
<i>Surrogate: a,a,a-Trifluorotoluene</i>	"	10.0		8.56	"	60.0-140	85.6			





Cambria Environmental 1144 65th St., Suite C. Oakland, CA 94608	Project: Shell(1) Project Number: Shell 15275 Washington Ave. Project Manager: Darryk Ataid	Sampled: 6/24/99 Received: 6/25/99 Reported: 7/11/99
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Notes and Definitions

#	Note
1	Chromatogram Pattern: Unidentified Hydrocarbons C6-C12
2	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
3	The samples were run outside the three day holding time.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
Recov.	Recovery
RPD	Relative Percent Difference





SHELL OIL COMPANY
RETAIL ENVIRONMENTAL ENGINEERING - WEST

CHAIN OF CUSTODY RECORD

Serial No: _____

Date: 6/24/99

Page 1 of 1

Silo Address: 15275 Washington Ave. San Leandro

WIC#: 204-6852-1008

Shell Engineer: Denis Brown
 Phone No.:
 Fax #:

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

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

Comments: 6906307

Sampled by: D. Ataide

Filed Name: D. Ataide

Analysis Required

TPH (EPA 8015 Mod. GCS)	TPH (EPA 8015 Mod. Diesel)	BTEX (EPA 8020/602)	Volatile Organics (EPA 8210)	Test for Disposal	Combination TPH 8015 & BTEX 8020	Asbestos	Container Size	Preparation Used	Composite Y/N
					X				
					X				

LAB: SEC

CHECK ONE (1) BOX ONLY	CI/DI	TURF AROUND TIME
G.W. Monitoring <input type="checkbox"/>	4441	24 hours <input type="checkbox"/>
Site Investigation <input type="checkbox"/>	4441	48 hours <input type="checkbox"/>
Soil Classfy/Disposal <input type="checkbox"/>	4442	14 days <input checked="" type="checkbox"/> (Normal)
Water Classfy/Disposal <input type="checkbox"/>	4443	Other <input type="checkbox"/>
Soil/Air Rem. or Sys. O & M <input checked="" type="checkbox"/>	4452	NOTE: Notify Lab as soon as Possible of 24/48 hrs. TAT.
Water Rem. or Sys. O & M <input type="checkbox"/>	4453	
Other <input type="checkbox"/>		

UST AGENCY: ACHCSA

Sample ID	Date	Sludge	Soil	Water	Air	No. of conls.
INF	6/24/99				X	1
EFF	6/24/99				X	1

Relinquished By (signature): [Signature]
 Printed Name: D. Ataide
 Date: 6/24/99
 Time: 1130

Relinquished By (signature): [Signature]
 Printed Name: JOHN FRICK
 Date: 6/25/99
 Time: 1450

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

Received (signature): [Signature]
 Printed Name:
 Date: 6/24/99
 Time: 1130

Received (signature): [Signature]
 Printed Name: Nicole Lane
 Date: 6/25/99
 Time: 1450

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

Printed Name: JOHN FRICK
 Date: 6/24/99
 Time: 1130

Printed Name: Nicole Lane
 Date: 6/25/99
 Time: 1450

Printed Name:
 Date:
 Time:

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