CAMBRIA

December 29, 2000

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

3769

Cambria did not address or acknowledge my 12/7/00 letter

Re: **Fourth Quarter 2000 Monitoring Report**
Shell-branded Service Station
4255 MacArthur Boulevard
Oakland, California
Incident #98995758
Cambria Project #242-0524-002

Dear Mr. Chan:

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

HYDROCARBON REMOVAL SUMMARY

Separate-Phase Hydrocarbon Removal Summary	
This Quarter (pounds)	Cumulative Removal (pounds)
0.00	21.80

The table above summarizes the cumulative separate-phase hydrocarbon (SPH) removal from the site by manual bailing.

FOURTH QUARTER 2000 ACTIVITIES

Groundwater Monitoring: Blaine Tech Services, Inc. (Blaine) of San Jose, California checked for SPH, gauged and sampled the site wells, calculated groundwater elevations and compiled the gasoline constituents analytical data. No SPH was detected this quarter. Cambria compiled the bioattenuation parameters analytical data (Table 1) and prepared a groundwater elevation contour map (Figure 1). Blaine's report, presenting the laboratory report and supporting field documents, is included as Attachment A.

Oakland, CA
San Ramon, CA
Sonoma, CA

Cambria Environmental Technology, Inc.

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

Groundwater Extraction: Cambria visited the site on November 16, 2000 to oversee groundwater extraction from monitoring well MW-2 and tank backfill well TB-2. Groundwater was extracted from the wells using a vacuum truck. MW-2 was dewatered after extracting approximately 150 gallons of groundwater. Approximately 974 gallons of groundwater were extracted from TB-2. Groundwater extraction will be performed monthly. Groundwater extraction data and hydrocarbon mass removal are summarized in Table 2.

ANTICIPATED FIRST QUARTER 2001 ACTIVITIES

Groundwater Monitoring: Blaine will measure and remove detected SPH, gauge and sample all wells, and tabulate the data. Cambria will prepare a monitoring report.

Groundwater Extraction: Cambria will continue to perform monthly site visits to oversee groundwater extraction at the site from wells MW-2 and TB-2.

Site Conceptual Model: As recommended in our third quarter 2000 groundwater monitoring report, Cambria began research for an area well survey and conduit study. When this information is obtained, it will be included in a site conceptual model and submitted with the first quarter 2001 groundwater monitoring report

CLOSING

We appreciate the opportunity to work with you on this project. Please call Troy Buggle at (510) 420-3333 if you have any questions or comments.

Sincerely,
Cambria Environmental Technology, Inc

Stephan Bork
for Troy A. Buggle
Senior Staff Scientist

Stephan A. Bork, C.E.G., C.HG.
Associate Hydrogeologist

REGISTERED GEOLOGIST
STEPHAN A. BORK
No. EG 2058
CERTIFIED ENGINEERING GEOLOGIST
STATE OF CALIFORNIA

Figure: 1 - Groundwater Elevation Contour Map

Tables: 1 - Bioattenuation Parameters Analytical Data
2 - Groundwater Extraction - Mass Removal Data
3 - Vapor Extraction - Mass Removal Data

Attachments: A - Blaine Groundwater Monitoring Report and Field Notes
B - Analytical Results for Groundwater Extraction Event

cc: Karen Petryna, Equiva Services LLC, P.O. Box 7869, Burbank, California 91501-7869
Roland C. Malone, Jr., PO Box 2099, Houston, TX 77252

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Table 1. **Groundwater Analytical Data - Bioattenuation Parameters** - Shell-branded Service Station, Incident #98995758, 4255 MacArthur Boulevard, Oakland, California

Well ID	Date	ORP (mV)	DO	Total Alkalinity	Ferrous Iron	Nitrate as Nitrate	Sulfate	Notes
			← (Concentrations in mg/L) →					
MW-1	07/17/98	---	0.8	460	1.6	<1.0	12	
	07/23/99	---	1.0	480	0.790	7.49	28.6	
	07/26/00	-140	13.2		<0.0100	7.80	387	
MW-2	07/17/98	---	---	---	---	---	---	SPH
	07/23/99	---	1.4	440	26.0	<1.00	3.24	
	07/26/00	113	2.2	26.5	3.74	7.59	399	
MW-3	07/17/98	---	1.3	860	5.3	<1.0	6.5	
	07/17/98	---	1.3	860	5.4	<1.0	5.8	duplicate
	07/23/99	---	1.3	920	76.0	<1.00	4.23	
	07/26/00	-70	0.9	440	4.04	<1.00	355	
MW-4	07/17/98	---	1.4	630	2.8	<1.0	13	
	07/23/99	---	0.9	620	46.0	7.41	6.03	
	07/26/00	-137	1.4	228	0.223	6.30	372	

Abbreviations & Notes:

ORP = Oxidation reduction potential, measured pre-purge
mV = Millivolts
DO = Dissolved oxygen, measured pre-purge
mg/L = Milligrams per liter
SPH = Separate-phase hydrocarbons in well; not sampled
--- = Not analyzed / Not available
<n = Below detection limit of n mg/L
Total alkalinity by EPA Method 310.2, concentrations in mg CaCO3/L
Ferrous iron by EPA Method 200.7
Nitrate as nitrate and sulfate by EPA Method 300.0

these wells have ORC socks, why the difference in DO in MW-1? background not written

Table 2: Groundwater Extraction - Mass Removal Data - Shell-branded Service Station, Incident #98995758, 4255 MacArthur Boulevard, Oakland, CA

Date Purged	Well ID	Volume Pumped (gal)	Cumulative Volume Pumped (gal)	Date Sampled	TPPH Concentration (ppb)	TPPH Removed (lb)	TPPH Removed To Date (lb)	Benzene Concentration (ppb)	Benzene Removed (lb)	Benzene Removed to Date (lb)	MTBE Concentration (ppb)	MTBE Removed (lb)	MTBE Removed To Date (lb)	Notes
					TPPH			**Benzene**			**MTBE**			
04/23/99	MW-2	200	200	04/13/98	180,000	0.30040	0.30040	2,800	0.00467	0.00467	71,000	0.11849	0.11849	
05/24/99	MW-2	200	400	04/13/98	180,000	0.30040	0.60079	2,800	0.00467	0.00935	71,000	0.11849	0.23698	
06/28/99	MW-2	200	600	04/13/98	180,000	0.30040	0.90119	2,800	0.00467	0.01402	71,000	0.11849	0.35547	
07/30/99	MW-2	200	800	07/23/99	65,800	0.10981	1.01100	6,500	0.01085	0.02487	46,600	0.07777	0.43324	
08/24/99	MW-2	100	900	07/23/99	65,800	0.05491	1.06591	6,500	0.00542	0.03029	46,600	0.03888	0.47212	
10/29/99	MW-2	100	1,000	07/23/99	65,800	0.05491	1.12081	6,500	0.00542	0.03571	46,600	0.03888	0.51101	
11/30/99	MW-2	100	1,100	07/23/99	65,800	0.05491	1.17572	6,500	0.00542	0.04114	46,600	0.03888	0.54989	
02/02/00	MW-2	200	1,300	01/17/00	46,000	0.07677	1.25249	6,000	0.01001	0.05115	**31,000**	0.05174	0.60163	
11/16/00	MW-2	150	1,450	10/12/00	63,200	0.07910	1.33159	5,840	0.00731	0.05846	**66,600**	0.08336	0.68499	
04/23/99	TB-2	4,800	4,800	08/24/99	6,240	0.24993	0.01602	400	0.01602	0.01602	86,100	3.44856	3.44856	
05/24/99	TB-2	4,800	9,600	08/24/99	6,240	0.24993	0.26595	400	0.01602	0.03204	86,100	3.44856	6.89711	
06/28/99	TB-2	4,800	14,400	08/24/99	6,240	0.24993	0.51588	400	0.01602	0.04806	86,100	3.44856	10.34567	
07/30/99	TB-2	4,800	19,200	08/24/99	6,240	0.24993	0.76581	400	0.01602	0.06408	86,100	3.44856	13.79422	
08/24/99	TB-2	2,400	21,600	08/24/99	6,240	0.12497	0.89078	400	0.00801	0.07210	86,100	1.72428	15.51850	
10/29/99	TB-2	2,255	23,855	10/29/99	7,460	0.14037	1.03115	656	0.01234	0.08444	442	0.00832	15.52682	
11/30/99	TB-2	3,800	27,655	10/29/99	7,460	0.23655	1.26769	656	0.02080	0.10524	442	0.01402	15.54083	
02/02/00	TB-2	4,500	32,155	01/31/00	2,070	0.07773	1.34542	108	0.00406	0.10930	6,550	0.24595	15.78678	
11/16/00	TB-2	974	33,129	11/16/00	107,000	0.86963	2.21505	3,390	0.02755	0.13685	16,800	0.13654	15.92332	
Total Gallons Extracted:			**34,579**		**Total Pounds Removed:**		**3.78055**			**0.19531**			**16.60831**	
					Total Gallons Removed:		**0.61976**			**0.02675**			**2.67876**	

11/08/00

Groundwater Elevation Contour Map
October 12, 2000

CAMBRIA

HIGHWAY 580

580 onramp

fence

steep embankment

HIGH STREET

MACARTHUR BOULEVARD

trailer park

restaurant

foot clinic

church structures

Shell-branded Service Station

storage building

underground storage tanks

pump island

parking

pharmacy

UNOCAL 76

vacant lot

parking

former Chevron service station

liquor deli

cleaners yogurt

video

Subway

residential/ offices

parking

Robert's Tires

Alameda Co. building

SB-1
22 - 2/13/98
410 - 2/13/98

SB-2
210 - 2/13/98
46,000 - 2/13/98

MW-1
168.08
40.7
25.0

MW-2
159.59*
5,840
(66,600)

MW-3
160.46
2,630
16,300

MW-4
154.71
19.8
8,290

TB-1

TB-2

155.00

160.00

165.00

EXPLANATION

- MW-1 — Monitoring and tank backfill well locations
- SB-1 — Cambria soil boring location (12/98)
- XXX — Groundwater elevation contour, in feet above mean sea level (msl), approximately located; dashed where inferred
- Inferred groundwater flow direction
- * Data anomalous, not used for contouring
- Boring ID / Benz. - Date / MTBE - Date — Boring designation; Benzene and MTBE concentrations are measured in parts per billion (ppb). Date is most recent sampling
- Well / ELEV / Benzene / MTBE — Well designation; Groundwater elevation, in feet above msl; Benzene and MTBE concentrations are in ppb and are analyzed by EPA Method 8020; MTBE results in parentheses are analyzed by EPA Method 8260.

0 20 40 80 160
SCALE : 1" = 40'

FIGURE
1

Shell-branded Service Station
4255 MacArthur Boulevard
Oakland, California
Incident #98995758

G:\OAKLAND4255MACARTHUR\FIGURES\4QM00-MP.AI

Table 2: Groundwater Extraction - Mass Removal Data - Shell-branded Service Station, Incident #98995758, 4255 MacArthur Boulevard, Oakland, CA

Abbreviations & Notes:

TPPH = Total purgeable hydrocarbons as gasoline, analyzed by EPA Method 8015
MtBE = Methyl tert-butyl ether by EPA Method 8020; MTBE results in bold are analyzed by EPA Method 8260
µg/L = Micrograms per liter
ppb = Parts per billion, equivalent to µg/L
lb = Pound
L = Liter
gal = Gallon
g = Gram
Mass removed based on the formula: volume extracted (gal) x Concentration (µg/L) x ($g/10^6 \mu g$) x (pound/453.6g) x (3.785 L/gal)
Volume removal data based on the formula: density (in gms/cc) x 9.339 (ccxlbs/gmsxgals)
Benzene analyzed by EPA Method 8020

Table 3: Vapor Extraction - Mass Removal Data - Shell-branded Service Station, Incident #98995758, 4255 MacArthur Boulevard, Oakland, California

							TPHg		Benzene		MTBE	
		Interval	System				TPHg	Cumulative	Benzene	Cumulative	MTBE	Cumulative
		Hours of	Flow	Hydrocarbon Concentrations			Removal	TPHg	Removal	Benzene	Removal	MTBE
	Well	Operation	Rate	TPHg	Benzene	MTBE	Rate	Removed	Rate	Removed	Rate	Removed
Date	ID	(hours)	(CFM)	(Concentrations in ppmv)			(#/hour)	(#)	(#/hour)	(#)	(#/hour)	(#)
11/16/00	MW-2	0.67	22	663.0	7.00	42.0	0.195	0.131	0.002	0.001	0.013	0.008
Total Pounds Removed:								**TPHg = < 0.131**		**Benzene = 0.001**		**MTBE = 0.008**

Abbreviations and Notes:

CFM = Cubic feet per minute

TPHg = Total petroleum hydrocarbons as gasoline (C6-C12) by modified EPA Method 8015 in 1 liter tedlar bag samples

ppmv = Parts per million by volume

= Pounds

TPHG, Benzene, and MTBE analyzed by EPA Method 8015/8020 in 1 liter tedlar bag samples

TPHg / Benzene / MTBE removal rate = Rate based on Bay Area Air Quality Management District's Manual of Procedures for Soil Vapor Extraction dated July 17, 1991.
(Rate = 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, 88 lb/lb-mole for MTBE) x 60 min/hour x 1/1,000,000)

Cumulative TPHg / Benzene / MTBE removal = Previous removal rate multiplied by the hour-interval of operation plus the previous total

ATTACHMENT A

Blaine Groundwater Monitoring Report
and Field Notes

BLAINE
TECH SERVICES INC

1680 ROGERS AVENUE
SAN JOSE, CA 95112-1105
(408) 573-7771 FAX
(408) 573-0555 PHONE
CONTRACTOR'S LICENSE #746684
www.blainetech.com

November 3, 2000

Karen Petryna
Equiva Services LLC
P.O. Box 7869
Burbank, CA 91510-7869

Fourth Quarter 2000 Groundwater Monitoring at
Shell-branded Service Station
4255 MacArthur Boulevard
Oakland, CA

Monitoring performed on October 12, 2000

Groundwater Monitoring Report **001012-R-2**

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

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

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

Blaine Tech Services, Inc. conducts sampling and documentation assignments of this type as an independent Fourth 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,

Deidre Kerwin
Operations Manager

DK/jt

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
Shell-branded Service Station
4255 MacArthur Boulevard
Oakland, CA
Wic #204-5510-0600

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.)	Depth to SPH (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)	DO Reading (ppm)	ORP Reading (mV)
MW-1	11/17/1993	410	21	11	7.9	47	NA	NA	175.79	8.59	NA	167.20	NA	NA	NA
MW-1	01/20/1994	1,200	180	19	48	47	NA	NA	175.79	8.22	NA	167.57	NA	NA	NA
MW-1	04/25/1994	3,100	610	<10	130	27	NA	NA	175.79	7.63	NA	168.16	NA	NA	NA
MW-1	07/07/1994	2,400	1,000	10	250	20	NA	NA	175.79	8.31	NA	167.48	NA	NA	NA
MW-1	10/27/1994	2,200	500	3.1	72	1.8	NA	NA	175.79	8.84	NA	166.95	NA	NA	NA
MW-1	11/17/1994	NA	NA	NA	NA	NA	NA	NA	175.79	7.60	NA	168.19	NA	NA	NA
MW-1	11/28/1994	NA	NA	NA	NA	NA	NA	NA	175.79	7.56	NA	168.23	NA	NA	NA
MW-1	01/13/1995	570	75	2.5	6.7	11	NA	NA	175.79	7.11	NA	168.68	NA	NA	NA
MW-1	04/12/1995	1,800	480	<5.0	79	<5.0	NA	NA	175.79	7.08	NA	168.71	NA	NA	NA
MW-1	07/25/1995	120	15	1.1	2.1	2.9	NA	NA	175.79	7.73	NA	168.06	NA	NA	NA
MW-1 (D)	07/25/1995	300	88	2.4	11	6.5	NA	NA	175.79	7.73	NA	168.06	NA	NA	NA
MW-1	10/18/1995	130	9.5	0.8	1.3	1.7	NA	NA	175.79	8.42	NA	167.37	NA	NA	NA
MW-1 (D)	10/18/1995	120	11	0.8	1.4	1.8	NA	NA	175.79	8.42	NA	167.37	NA	NA	NA
MW-1	01/17/1996	250	22	0.9	1.6	2.3	NA	NA	175.79	7.83	NA	167.96	NA	NA	NA
MW-1	04/25/1996	<50	4.6	<0.5	<0.5	0.6	500b	NA	175.79	7.35	NA	168.44	NA	NA	NA
MW-1	07/17/1996	<250	15	<2.5	<2.5	<2.5	540	NA	175.79	7.70	NA	168.09	NA	NA	NA
MW-1	10/01/1996	1,200	500	12	57	82	1,900	NA	175.79	8.07	NA	167.72	NA	NA	NA
MW-1	01/22/1997	640	170	4.3	33	33	1,200	NA	175.79	7.21	NA	168.58	NA	NA	NA
MW-1	04/08/1997	<200	34	<2.0	3.3	4.3	950	NA	175.79	7.75	NA	168.04	NA	NA	NA
MW-1 (D)	04/08/1997	<200	66	<2.0	6.4	8	740	NA	175.79	7.75	NA	168.04	NA	NA	NA
MW-1	07/08/1997	190	49	1.2	5.8	8.6	560	NA	175.79	8.01	NA	167.78	NA	NA	NA
MW-1	10/08/1997	<100	7	<1.0	<1.0	<1.0	620	NA	175.79	8.10	NA	167.69	NA	NA	NA
MW-1	01/09/1998	970	390	12	48	71	1,200	NA	175.79	7.14	NA	168.65	NA	NA	NA
MW-1	04/13/1998	<50	136	<0.50	1.5	1.8	170	NA	175.79	6.78	NA	169.01	NA	NA	NA
MW-1	07/17/1998	2,500	750	11	88	67	150	NA	175.79	7.28	NA	168.51	NA	NA	NA
MW-1	10/02/1998	8,000	970	36	270	440	35	NA	175.79	7.77	NA	168.02	NA	NA	NA

WELL CONCENTRATIONS
Shell-branded Service Station
4255 MacArthur Boulevard
Oakland, CA
Wic #204-5510-0600

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.)	Depth to SPH (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)	DO Reading (ppm)	ORP Reading (mV)
MW-1	02/03/1999	210	56	0.82	<0.50	3.2	220	NA	175.79	7.45	NA	168.34	NA	1.4	NA
MW-1	04/29/1999	<50	4.5	<0.50	0.56	<0.50	140	196	175.79	7.58	NA	168.21	NA	1.2	140
MW-1	07/23/1999	<50.0	<0.500	<0.500	<0.500	<0.500	120	111*	175.79	8.51	NA	167.28	NA	1.0	NA
MW-1	11/01/1999	<50.0	<0.500	<0.500	<0.500	<0.500	2.90	NA	175.79	8.30	NA	167.49	NA	1.4	-71
MW-1	01/17/2000	<50	<0.50	<0.50	<0.50	<0.50	3.30	NA	175.79	8.04	NA	167.75	NA	16.9	64
MW-1	04/17/2000	<50.0	1.08	<0.500	<0.500	<0.500	<2.50	NA	175.79	8.00	NA	167.79	NA	1.8	112
MW-1	07/26/2000	125	54.3	2.16	5.45	9.86	33.1	NA	175.79	7.52	NA	168.27	NA	13.2	-140
MW-1	**10/12/2000**	**101**	**40.7**	**2.68**	**3.00**	**5.18**	**25.0**	**NA**	**175.79**	**7.71**	**NA**	**168.08**	**NA**	**>20**	**534**
MW-2	11/17/1993	31,000	9,400	4,600	1,000	3,900	NA	NA	170.91	12.31	NA	158.60	NA	NA	NA
MW-2	01/20/1994	40,000	6,900	5,600	780	4,100	NA	NA	170.91	11.48	NA	159.43	NA	NA	NA
MW-2 (D)	01/20/1994	41,000	7,200	6,200	900	4,800	NA	NA	170.91	11.48	NA	159.43	NA	NA	NA
MW-2	04/25/1994	60,000	9,300	6,100	1,400	6,200	NA	NA	170.91	10.84	NA	160.07	NA	NA	NA
MW-2	07/07/1994	280,000a	40,000	26,000	8,100	32,000	NA	NA	170.91	11.89	NA	159.02	NA	NA	NA
MW-2 (D)	07/07/1994	53,000	13,000	6,600	2,000	8,400	NA	NA	170.91	11.89	NA	159.02	NA	NA	NA
MW-2	10/27/1994	130,000	14,000	12,000	2,400	13,000	NA	NA	170.91	12.89	NA	158.02	NA	NA	NA
MW-2 (D)	10/27/1994	390,000	8,800	7,000	1,700	11,000	NA	NA	170.91	12.89	NA	158.02	NA	NA	NA
MW-2	11/17/1994	NA	NA	NA	NA	NA	NA	NA	170.91	9.11	NA	161.80	NA	NA	NA
MW-2	11/28/1994	NA	NA	NA	NA	NA	NA	NA	170.91	9.22	NA	161.69	NA	NA	NA
MW-2	01/13/1995	75,000	5,900	12,000	3,100	17,000	NA	NA	170.91	8.10	NA	162.81	NA	NA	NA
MW-2	04/12/1995	100,000	8,500	11,000	2,400	12,000	NA	NA	170.91	10.12	NA	160.79	NA	NA	NA
MW-2 (D)	04/12/1995	80,000	4,200	9,300	2,500	12,000	NA	NA	170.91	10.12	NA	160.79	NA	NA	NA
MW-2	07/25/1995	NA	NA	NA	NA	NA	NA	NA	170.91	11.53	NA	159.80	0.52	NA	NA
MW-2	10/18/1995	NA	NA	NA	NA	NA	NA	NA	170.91	14.02	NA	156.99	0.13	NA	NA
MW-2	01/17/1996	NA	NA	NA	NA	NA	NA	NA	170.91	10.27	NA	160.78	0.17	NA	NA
MW-2	04/25/1996	NA	NA	NA	NA	NA	NA	NA	170.91	11.68	NA	159.25	0.03	NA	NA

WELL CONCENTRATIONS
Shell-branded Service Station
4255 MacArthur Boulevard
Oakland, CA
Wic #204-5510-0600

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.)	Depth to SPH (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)	DO Reading (ppm)	ORP Reading (mV)
MW-2	07/17/1996	NA	NA	NA	NA	NA	NA	NA	170.91	12.78	NA	158.81	0.48	NA	NA
MW-2	10/01/1996	NA	NA	NA	NA	NA	NA	NA	170.91	14.21	NA	156.70	0.28	NA	NA
MW-2	01/22/1997	NA	NA	NA	NA	NA	NA	NA	170.91	10.92	NA	160.08	0.11	NA	NA
MW-2	04/08/1997	NA	NA	NA	NA	NA	NA	NA	170.91	14.12	NA	156.95	0.20	NA	NA
MW-2	07/08/1997	NA	NA	NA	NA	NA	NA	NA	170.91	14.98	NA	156.08	0.19	NA	NA
MW-2	10/08/1997	NA	NA	NA	NA	NA	NA	NA	170.91	12.97	NA	157.98	0.05	NA	NA
MW-2	01/08/1998	NA	NA	NA	NA	NA	NA	NA	170.91	12.54	NA	158.43	0.08	NA	NA
MW-2	04/13/1998	180,000	2,800	5,200	2,400	13,000	71,000	NA	170.91	10.05	NA	160.86	NA	NA	NA
MW-2	07/17/1998	NA	NA	NA	NA	NA	NA	NA	170.91	11.75	NA	159.24	0.10	NA	NA
MW-2	10/02/1998	NA	NA	NA	NA	NA	NA	NA	170.91	16.78	NA	154.22	0.11	NA	NA
MW-2	02/03/1999	NA	NA	NA	NA	NA	NA	NA	170.91	9.90	9.82	161.07	0.08	NA	NA
MW-2	04/29/1999	NA	NA	NA	NA	NA	NA	NA	170.91	9.86	9.81	161.09	0.05	NA	NA
MW-2	07/23/1999	65,800	6,500	4,480	1,960	8,960	46,600	58,500*	170.91	14.45	NA	156.46	NA	1.4	NA
MW-2	11/01/1999	NA	NA	NA	NA	NA	NA	NA	170.91	11.84	11.81	159.09	0.03	NA	NA
MW-2	01/17/2000	46,000	6,000	2,400	1,500	5,500	50,000	31,000	170.91	11.00	NA	159.91	NA	1.3	-54
MW-2	04/17/2000	96,300	8,150	10,200	2,820	14,900	112,000	108,000	170.91	11.06	NA	159.85	NA	2.6	125
MW-2	07/26/2000	72,400	8,680	5,620	2,810	13,400	66,200	46,300	170.91	12.82	NA	158.09	NA	2.2	113
MW-2	**10/12/2000**	**63,200**	**5,840**	**4,180**	**2,310**	**11,100**	**61,200**	**66,600**	**170.91**	**11.32**	**NA**	**159.59**	**NA**	**0.4**	**55**
MW-3	11/17/1993	18,000	5,400	660	720	2,200	NA	NA	174.61	15.40	NA	159.21	NA	NA	NA
MW-3	01/20/1994	55,000	13,000	2,600	2,200	6,500	NA	NA	174.61	14.61	NA	160.00	NA	NA	NA
MW-3	04/25/1994	96,000	11,000	1,600	3,100	9,900	NA	NA	174.61	13.12	NA	161.49	NA	NA	NA
MW-3 (D)	04/25/1994	78,000	12,000	1,900	2,600	7,300	NA	NA	174.61	13.12	NA	161.49	NA	NA	NA
MW-3	07/07/1994	NA	NA	NA	NA	NA	NA	NA	174.61	14.54	NA	160.07	0.02	NA	NA
MW-3	10/27/1994	NA	NA	NA	NA	NA	NA	NA	174.61	15.62	NA	159.03	0.05	NA	NA
MW-3	11/17/1994	NA	NA	NA	NA	NA	NA	NA	174.61	13.83	NA	160.78	NA	NA	NA

WELL CONCENTRATIONS
Shell-branded Service Station
4255 MacArthur Boulevard
Oakland, CA
Wic #204-5510-0600

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.)	Depth to SPH (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)	DO Reading (ppm)	ORP Reading (mV)
MW-3	11/28/1994	NA	NA	NA	NA	NA	NA	NA	174.61	14.02	NA	160.59	NA	NA	NA
MW-3	01/13/1995	180,000	3,200	2,700	1,700	5,200	NA	NA	174.61	12.13	NA	162.48	NA	NA	NA
MW-3 (D)	01/13/1995	23,000	4,000	690	960	3,000	NA	NA	174.61	12.13	NA	162.48	NA	NA	NA
MW-3	04/12/1995	56,000	8,700	1,500	2,100	6,300	NA	NA	174.61	12.96	NA	161.65	NA	NA	NA
MW-3	07/25/1995	NA	NA	NA	NA	NA	NA	NA	174.61	14.28	NA	160.38	0.06	NA	NA
MW-3	10/18/1995	NA	NA	NA	NA	NA	NA	NA	174.61	15.88	NA	158.77	0.05	NA	NA
MW-3	01/17/1996	NA	NA	NA	NA	NA	NA	NA	174.61	13.86	NA	160.94	0.24	NA	NA
MW-3	04/25/1996	NA	NA	NA	NA	NA	NA	NA	174.61	13.82	NA	160.81	0.02	NA	NA
MW-3	07/17/1996	NA	NA	NA	NA	NA	NA	NA	174.61	16.11	NA	158.52	0.03	NA	NA
MW-3	10/01/1996	46,000	7,300	530	1,700	3,900	3,200	NA	174.61	16.56	NA	158.05	NA	NA	NA
MW-3 (D)	10/01/1996	47,000	7,100	530	1,700	4,000	2,900	NA	174.61	16.56	NA	158.05	NA	NA	NA
MW-3	01/22/1997	82,000	5,200	1,300	2,800	8,900	1,100	NA	174.61	13.07	NA	161.54	NA	NA	NA
MW-3 (D)	01/22/1997	61,000	8,400	1,100	2,300	7,000	2,700	NA	174.61	13.07	NA	161.54	NA	NA	NA
MW-3	04/08/1997	NA	NA	NA	NA	NA	NA	NA	174.61	17.09	NA	157.54	0.03	NA	NA
MW-3	07/08/1997	56,000	8,800	580	2,000	4,900	2,800	NA	174.61	15.85	NA	158.76	NA	NA	NA
MW-3	10/08/1997	48,000	8,000	590	1,700	3,400	5,100	NA	174.61	16.22	NA	158.39	NA	NA	NA
MW-3	01/08/1998	47,000	9,400	810	2,300	4,700	6,300	NA	174.61	13.80	NA	160.81	NA	NA	NA
MW-3 (D)	01/08/1998	48,000	8,100	750	2,000	4,100	5,800	NA	174.61	13.80	NA	160.81	NA	NA	NA
MW-3	04/13/1998	32,000	6,800	540	1,400	3,400	4,000	NA	174.61	12.97	NA	161.64	NA	NA	NA
MW-3 (D)	04/13/1998	36,000	7,300	660	1,600	3,700	4,000	NA	174.61	12.97	NA	161.64	NA	NA	NA
MW-3	07/17/1998	71,000	11,000	590	2,200	6,900	3,900	NA	174.61	11.51	NA	163.10	NA	NA	NA
MW-3 (D)	07/17/1998	76,000	12,000	700	2,600	8,000	3,000	NA	174.61	11.51	NA	163.10	NA	NA	NA
MW-3	10/02/1998	66,000	8,900	510	2,000	4,900	4,600	NA	174.61	16.50	NA	158.11	NA	NA	NA
MW-3 (D)	10/02/1998	59,000	9,400	460	2,000	4,900	4,700	NA	174.61	16.50	NA	158.11	NA	NA	NA
MW-3	02/03/1999	36,000	6,800	300	1,600	2,900	18,000	NA	174.61	15.21	NA	159.40	NA	1.3	NA
MW-3	04/29/1999	45,000	8,100	580	2,200	5,800	4,700	5,150	174.61	15.43	NA	159.18	NA	1.5	-68

WELL CONCENTRATIONS
Shell-branded Service Station
4255 MacArthur Boulevard
Oakland, CA
Wic #204-5510-0600

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.)	Depth to SPH (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)	DO Reading (ppm)	ORP Reading (mV)
MW-3	07/23/1999	29,400	3,540	215	810	3,800	4,720	6,950*	174.61	14.95	NA	159.66	NA	1.3	NA
MW-3	11/01/1999	20,000	4,190	294	1,060	1,740	5,540	8,590	174.61	14.66	NA	159.95	NA	0.6	-110
MW-3	01/17/2000	17,000	3,900	89	1,100	1,200	7,900	NA	174.61	13.94	NA	160.67	NA	1.3	-40
MW-3	04/17/2000	28,100	5,240	247	1,540	2,750	16,600	NA	174.61	14.00	NA	160.61	NA	1.1	-86
MW-3	07/26/2000	24,300	6,680	159	1,610	1,640	17,100	NA	174.61	13.72	NA	160.89	NA	0.9	-70
MW-3	**10/12/2000**	**14,300**	**2,630**	**86.7**	**241**	**1,360**	**16,300**	**NA**	**174.61**	**14.15**	**NA**	**160.46**	**NA**	**0.9**	**50**
MW-4	11/17/1994	NA	NA	NA	NA	NA	NA	NA	164.06	6.62	NA	157.44	NA	NA	NA
MW-4	11/28/1994	2,900	200	17	76	260	NA	NA	164.06	6.11	NA	157.95	NA	NA	NA
MW-4	01/13/1995	1,900	130	5.6	13	40	NA	NA	164.06	6.05	NA	158.01	NA	NA	NA
MW-4	04/12/1995	680	150	<2.0	10	13	NA	NA	164.06	6.31	NA	157.75	NA	NA	NA
MW-4	07/25/1995	340	100	0.8	8.8	3	NA	NA	164.06	7.36	NA	156.70	NA	NA	NA
MW-4	10/18/1995	150	31	<0.5	3.5	0.8	NA	NA	164.06	8.54	NA	155.52	NA	NA	NA
MW-4	01/17/1996	290	14	<0.5	1.8	0.8	NA	NA	164.06	8.48	NA	155.58	NA	NA	NA
MW-4	04/25/1996	<500	65	<5	<5	<5	1,700	NA	164.06	7.40	NA	156.66	NA	NA	NA
MW-4 (D)	04/25/1996	<500	66	<5	8.7	<5	1,500	NA	164.06	7.40	NA	156.66	NA	NA	NA
MW-4	07/17/1996	<500	84	<5.0	6.5	<5.0	1,500	NA	164.06	7.75	NA	156.31	NA	NA	NA
MW-4 (D)	07/17/1996	<500	54	<5.0	<5.0	<5.0	1,700	2,100	164.06	7.75	NA	156.31	NA	NA	NA
MW-4	10/01/1996	<500	1.9	<5.0	<5.0	<5.0	3,000	NA	164.06	8.82	NA	155.24	NA	NA	NA
MW-4	01/22/1997	580	130	<2.5	18	5.2	1,200	NA	164.06	7.51	NA	156.55	NA	NA	NA
MW-4	04/08/1997	770	200	7	26	55	1,500	8	164.06	7.18	NA	156.88	NA	NA	NA
MW-4	07/08/1997	570	78	<5.0	14	11	1,200	NA	164.06	9.00	NA	155.06	NA	NA	NA
MW-4 (D)	07/08/1997	640	81	<5.0	16	19	1,600	NA	164.06	9.00	NA	155.06	NA	NA	NA
MW-4	10/08/1997	<500	40	<5.0	7.4	5.4	1,400	NA	164.06	8.97	NA	155.09	NA	NA	NA
MW-4 (D)	10/08/1997	<500	36	<5.0	5.9	<5.0	1,400	NA	164.06	8.97	NA	155.09	NA	NA	NA
MW-4	01/08/1998	<1,000	55	<10	13	<10	2,000	NA	164.06	7.90	NA	156.16	NA	NA	NA

WELL CONCENTRATIONS
Shell-branded Service Station
4255 MacArthur Boulevard
Oakland, CA
Wic #204-5510-0600

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.)	Depth to SPH (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)	DO Reading (ppm)	ORP Reading (mV)
MW-4	04/13/1998	350	110	2.4	20	26	<2.5	NA	164.06	7.35	NA	156.71	NA	NA	NA
MW-4	07/17/1998	210	66	0.78	5.4	9.8	1,700	NA	164.06	6.95	NA	157.11	NA	NA	NA
MW-4	10/02/1998	<50	0.69	<0.50	<0.50	<0.50	2,900	NA	164.06	7.35	NA	156.71	NA	NA	NA
MW-4	02/03/1999	560	120	2.5	29	34	6,800	NA	164.06	7.71	NA	156.35	NA	0.9	NA
MW-4	04/29/1999	390	80	1.9	13	19	7,000	8,360	164.06	7.83	NA	156.23	NA	1.1	-125
MW-4	07/23/1999	460	93.6	8.40	25.2	28.8	3,760	6,000*	164.06	11.33	NA	152.73	NA	0.9	NA
MW-4	11/01/1999	77.3	0.520	<0.500	<0.500	<0.500	539	NA	164.06	10.66	NA	153.40	NA	2.8	3
MW-4	01/17/2000	160	27	<0.50	12	6.3	12,000	NA	164.06	10.15	NA	153.91	NA	3.9	-17
MW-4	04/17/2000	<500	26	6.38	9.35	10.4	9,070	NA	164.06	10.10	NA	153.96	NA	1.7	-129
MW-4	07/26/2000	<500	22.7	<5.00	7.59	6.96	7,660	NA	164.06	10.09	NA	153.97	NA	1.4	-137
MW-4	**10/12/2000**	**172**	**19.8**	**<0.500**	**7.47**	**4.50**	**8,290**	**NA**	**164.06**	**9.35**	**NA**	**154.71**	**NA**	**3.5**	**529**
TB-1	04/29/1999	NA	NA	NA	NA	NA	NA	NA	NA	6.00	NA	NA	NA	3.8	-132
TB-1	11/01/1999	NA	NA	NA	NA	NA	NA	NA	NA	12.65	NA	NA	NA	0.2	-165
TB-1	01/17/2000	NA	NA	NA	NA	NA	NA	NA	NA	7.72	NA	NA	NA	0.8	-178
TB-1	04/17/2000	NA	NA	NA	NA	NA	NA	NA	NA	7.65	NA	NA	NA	0.5	-152
TB-1	07/26/2000	NA	NA	NA	NA	NA	NA	NA	NA	5.13	NA	NA	NA	1.0	-124
TB-1	**10/12/2000**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**5.20**	**NA**	**NA**	**NA**	**0.7**	**-73**
TB-2	04/29/1999	NA	NA	NA	NA	NA	NA	NA	NA	4.76	NA	NA	NA	4.2	-108
TB-2	11/01/1999	NA	NA	NA	NA	NA	NA	NA	NA	11.33	NA	NA	NA	0.5	-148
TB-2	01/17/2000	NA	NA	NA	NA	NA	NA	NA	NA	9.79	NA	NA	NA	0.7	-162
TB-2	04/17/2000	NA	NA	NA	NA	NA	NA	NA	NA	9.75	NA	NA	NA	0.9	-121
TB-2	07/26/2000	NA	NA	NA	NA	NA	NA	NA	NA	4.73	NA	NA	NA	0.9	-85
TB-2	**10/12/2000**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**4.05**	**NA**	**NA**	**NA**	**0.6**	**-47**

WELL CONCENTRATIONS
Shell-branded Service Station
4255 MacArthur Boulevard
Oakland, CA
Wic #204-5510-0600

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.)	Depth to SPH (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)	DO Reading (ppm)	ORP Reading (mV)

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
ug/L = parts per billion
msl = Mean sea level
ft = Feet
<n = Below detection limit
D = Duplicate sample
NA = Not applicable
DO = Dissolved Oxygens
ppm = parts per million
ORP = Oxidation Reduction Potential
mV = millivolts

Notes:
* = Sample analyzed outside the EPA recommended holding time.
a = Ground water surface had a sheen when sampled
b = MTBE value is estimated by Sequoia Analytical of Redwood City, California

When separate-phase hydrocarbons are present, ground water elevation is adjusted using the relation:
Corrected ground water elevation = Top-of-casing elevation - depth to water + (0.8 x hydrocarbon thickness).

Sequoia
Analytical

885 Jarvis Drive
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27 October, 2000

Nick Sudano
Blaine Tech Services (Shell)
1680 Rogers Avenue
San Jose, CA 95112

RE: 4255 McArthur Blvd.
Sequoia Report: MJJ0427

Enclosed are the results of analyses for samples received by the laboratory on 10/13/00 13:59. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

for Wayne Stevenson
Client Services Manager

CA ELAP Certificate #1210

Sequoia Analytical

885 Jarvis Drive
Morgan Hill, CA 95037
(408) 776-9600
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Blaine Tech Services (Shell)	Project: 4255 McArthur Blvd.	
1680 Rogers Avenue	Project Number: 4255 McArthur Blvd./ Oakland	**Reported:**
San Jose CA, 95112	Project Manager: Nick Sudano	10/27/00 09:10

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1	MJJ0427-01	Water	10/12/00 14:06	10/13/00 13:59
MW-2	MJJ0427-02	Water	10/12/00 14:53	10/13/00 13:59
MW-3	MJJ0427-03	Water	10/12/00 14:30	10/13/00 13:59
MW-4	MJJ0427-04	Water	10/12/00 13:40	10/13/00 13:59

Sequoia Analytical - Morgan Hill

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

for

Wayne Stevenson, Client Services Manager

Sequoia Analytical

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Blaine Tech Services (Shell)	Project: 4255 McArthur Blvd.	
1680 Rogers Avenue	Project Number: 4255 McArthur Blvd./ Oakland	**Reported:**
San Jose CA, 95112	Project Manager: Nick Sudano	10/27/00 09:10

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

Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (MJJ0427-01) Water Sampled: 10/12/00 14:06 Received: 10/13/00 13:59									
Purgeable Hydrocarbons	**101**	50.0	ug/l	1	0J19004	10/19/00	10/19/00	DHS LUFT	P-01
Benzene	**40.7**	0.500	"	"	"	"	"	"	
Toluene	**2.68**	0.500	"	"	"	"	"	"	
Ethylbenzene	**3.00**	0.500	"	"	"	"	"	"	
Xylenes (total)	**5.18**	0.500	"	"	"	"	"	"	
Methyl tert-butyl ether	**25.0**	2.50	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*94.7 %*		*70-130*		"	"	"	
MW-2 (MJJ0427-02) Water Sampled: 10/12/00 14:53 Received: 10/13/00 13:59									
Purgeable Hydrocarbons	**63200**	20000	ug/l	400	0J20005	10/20/00	10/20/00	DHS LUFT	P-01
Benzene	**5840**	200	"	"	"	"	"	"	
Toluene	**4180**	200	"	"	"	"	"	"	
Ethylbenzene	**2310**	200	"	"	"	"	"	"	
Xylenes (total)	**11100**	200	"	"	"	"	"	"	
Methyl tert-butyl ether	**61200**	1000	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotolvene		*91.7 %*		*70-130*		"	"	"	
MW-3 (MJJ0427-03) Water Sampled: 10/12/00 14:30 Received: 10/13/00 13:59									
Purgeable Hydrocarbons	**14300**	5000	ug/l	100	0J20005	10/20/00	10/20/00	DHS LUFT	P-01
Benzene	**2630**	50.0	"	"	"	"	"	"	
Toluene	**86.7**	50.0	"	"	"	"	"	"	
Ethylbenzene	**241**	50.0	"	"	"	"	"	"	
Xylenes (total)	**1360**	50.0	"	"	"	"	"	"	
Methyl tert-butyl ether	**16300**	250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*95.8 %*		*70-130*		"	"	"	

Sequoia Analytical

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Blaine Tech Services (Shell)	Project: 4255 McArthur Blvd.	
1680 Rogers Avenue	Project Number: 4255 McArthur Blvd./ Oakland	**Reported:**
San Jose CA, 95112	Project Manager: Nick Sudano	10/27/00 09:10

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

Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-4 (MJJ0427-04) Water Sampled: 10/12/00 13:40 Received: 10/13/00 13:59									
Purgeable Hydrocarbons	**172**	50.0	ug/l	1	0J19004	10/19/00	10/19/00	DHS LUFT	P-01
Benzene	**19.8**	0.500	"	"	"	"	"	"	
Toluene	ND	0.500	"	"	"	"	"	"	
Ethylbenzene	**7.47**	0.500	"	"	"	"	"	"	
Xylenes (total)	**4.50**	0.500	"	"	"	"	"	"	
Methyl tert-butyl ether	**8290**	250	"	100	"	"	10/20/00	"	M-03
Surrogate: a,a,a-Trifluorotoluene		*92.0 %*		*70-130*	"	"	*10/19/00*	"	

Sequoia Analytical

885 Jarvis Drive
Morgan Hill, CA 95037
(408) 776-9600
FAX (408) 782-6308
www.sequoialabs.com

Blaine Tech Services (Shell)	Project: 4255 McArthur Blvd.	
1680 Rogers Avenue	Project Number: 4255 McArthur Blvd./ Oakland	**Reported:**
San Jose CA, 95112	Project Manager: Nick Sudano	10/27/00 09:10

MTBE Confirmation by EPA Method 8260A

Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-2 (MJJ0427-02) Water Sampled: 10/12/00 14:53 Received: 10/13/00 13:59									
Methyl tert-butyl ether	**66600**	5000	ug/l	5000	0J26012	10/26/00	10/26/00	EPA 8260A	
Surrogate: 1,2-Dichloroethane-d4		*106 %*	*70-130*		"	"	"	"	

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Blaine Tech Services (Shell)	Project: 4255 McArthur Blvd.	
1680 Rogers Avenue	Project Number: 4255 McArthur Blvd./ Oakland	**Reported:**
San Jose CA, 95112	Project Manager: Nick Sudano	10/27/00 09:10

Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT - Quality Control
Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 0J19004 - EPA 5030B [P/T]										
Blank (0J19004-BLK1)				Prepared & Analyzed: 10/19/00						
Purgeable Hydrocarbons	ND	50.0	ug/l							
Benzene	ND	0.500	"							
Toluene	ND	0.500	"							
Ethylbenzene	ND	0.500	"							
Xylenes (total)	ND	0.500	"							
Methyl tert-butyl ether	ND	2.50	"							
Surrogate: a,a,a-Trifluorotoluene	*9.70*		"	*10.0*		*97.0*	*70-130*			
LCS (0J19004-BS1)				Prepared & Analyzed: 10/19/00						
Purgeable Hydrocarbons	236	50.0	ug/l	250		94.4	70-130			
Surrogate: a,a,a-Trifluorotoluene	*8.65*		"	*10.0*		*86.5*	*70-130*			
Matrix Spike (0J19004-MS1)		**Source: MJJ0454-02**		Prepared & Analyzed: 10/19/00						
Purgeable Hydrocarbons	250	50.0	ug/l	250	ND	100	60-140			
Surrogate: a,a,a-Trifluorotoluene	*8.72*		"	*10.0*		*87.2*	*70-130*			
Matrix Spike Dup (0J19004-MSD1)		**Source: MJJ0454-02**		Prepared & Analyzed: 10/19/00						
Purgeable Hydrocarbons	248	50.0	ug/l	250	ND	99.2	60-140	0.803	25	
Surrogate: a,a,a-Trifluorotoluene	*8.78*		"	*10.0*		*87.8*	*70-130*			
Batch 0J20005 - EPA 5030B [P/T]										
Blank (0J20005-BLK1)				Prepared & Analyzed: 10/20/00						
Purgeable Hydrocarbons	ND	50.0	ug/l							
Benzene	ND	0.500	"							
Toluene	ND	0.500	"							
Ethylbenzene	ND	0.500	"							
Xylenes (total)	ND	0.500	"							
Methyl tert-butyl ether	ND	2.50	"							
Surrogate: a,a,a-Trifluorotoluene	*9.25*		"	*10.0*		*92.5*	*70-130*			

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Blaine Tech Services (Shell)	Project: 4255 McArthur Blvd.	
1680 Rogers Avenue	Project Number: 4255 McArthur Blvd./ Oakland	**Reported:**
San Jose CA, 95112	Project Manager: Nick Sudano	10/27/00 09:10

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

Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 0J20005 - EPA 5030B [P/T]										
LCS (0J20005-BS1)				Prepared & Analyzed: 10/20/00						
Purgeable Hydrocarbons	234	50.0	ug/l	250		93.6	70-130			
Surrogate: a,a,a-Trifluorotoluene	*10.0*		"	*10.0*		*100*	*70-130*			
Matrix Spike (0J20005-MS1)		**Source: MJJ0478-01**		Prepared & Analyzed: 10/20/00						
Purgeable Hydrocarbons	222	50.0	ug/l	250	ND	88.8	60-140			
Surrogate: a,a,a-Trifluorotoluene	*9.65*		"	*10.0*		*96.5*	*70-130*			
Matrix Spike Dup (0J20005-MSD1)		**Source: MJJ0478-01**		Prepared & Analyzed: 10/20/00						
Purgeable Hydrocarbons	224	50.0	ug/l	250	ND	89.6	60-140	0.897	25	
Surrogate: a,a,a-Trifluorotoluene	*9.59*		"	*10.0*		*95.9*	*70-130*			

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Blaine Tech Services (Shell) 1680 Rogers Avenue San Jose CA, 95112	Project: 4255 McArthur Blvd. Project Number: 4255 McArthur Blvd./ Oakland Project Manager: Nick Sudano	**Reported:** 10/27/00 09:10

MTBE Confirmation by EPA Method 8260A - Quality Control
Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 0J26012 - EPA 5030B [P/T]										
Blank (0J26012-BLK1)				Prepared & Analyzed: 10/26/00						
Methyl tert-butyl ether	ND	1.00	ug/l							
Surrogate: 1,2-Dichloroethane-d4	*9.02*		"	*10.0*		*90.2*	*70-130*			
LCS (0J26012-BS1)				Prepared & Analyzed: 10/26/00						
Methyl tert-butyl ether	9.29	1.00	ug/l	10.0		92.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	*8.80*		"	*10.0*		*88.0*	*70-130*			
Matrix Spike (0J26012-MS1)		**Source: MJJ0451-02**		Prepared & Analyzed: 10/26/00						
Methyl tert-butyl ether	1160	50.0	ug/l	500	701	91.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	*9.45*		"	*10.0*		*94.5*	*70-130*			
Matrix Spike Dup (0J26012-MSD1)		**Source: MJJ0451-02**		Prepared & Analyzed: 10/26/00						
Methyl tert-butyl ether	1080	50.0	ug/l	500	701	75.8	70-130	7.14	25	
Surrogate: 1,2-Dichloroethane-d4	*9.40*		"	*10.0*		*94.0*	*70-130*			

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Blaine Tech Services (Shell)	Project: 4255 McArthur Blvd.	
1680 Rogers Avenue	Project Number: 4255 McArthur Blvd./ Oakland	**Reported:**
San Jose CA, 95112	Project Manager: Nick Sudano	10/27/00 09:10

Notes and Definitions

M-03	Sample was analyzed at a second dilution per clients request.
P-01	Chromatogram Pattern: Gasoline 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
RPD	Relative Percent Difference

BLAINE
TECH SERVICES INC.

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

CHAIN OF CUSTODY 001012 RZ

CLIENT: Equiva - Karen Petryna

SITE: 4255 McArthur Blvd.

Oakland, CA

LAB: SEQUOIA DHS #

ALL ANALYSES MUST MEET SPECIFICATIONS AND DETECTION LIMITS SET BY CALIFORNIA DHS AND

☐ EPA ☐ RWQCB REGION ____
☐ LIA
☐ OTHER 98995758

SPECIAL INSTRUCTIONS

MTJ0427

Send invoice to Equiva

Incident # 98995758

Send report to Blaine Tech Services

Attn: Ann Pember

SAMPLE I.D.		MATRIX (S = SOIL, W = H2O)	CONTAINERS TOTAL		C = COMPOSITE ALL CONTAINERS	CONDUCT ANALYSIS TO DETECT: TPH - gas, BTEX	MTBE by 8020	MTBE by 8260	TPH-diesel	Oxygenates by 8260	1,2-DCA & EDB by 8010	ADD'L INFORMATION	STATUS	CONDITION	LAB SAMPLE #
MW 1	10/12/00 1406	W	3	HCl vial		X	X								
MW 2	1453					X	X					Confirm highest MTBE hit by EPA 8260			
MW 3	1430					X	X								
MW 4	1340					X	X								

SAMPLING COMPLETED: DATE 10/12/00 TIME 1500

SAMPLING PERFORMED BY: Jared

RESULTS NEEDED NO LATER THAN: Standard

RELEASED BY	DATE	TIME	RECEIVED BY	DATE	TIME
Jared Kan	10/13/00	9:20		10/13/00	9:22
	10/13/00			10/13/00	1359

SHIPPED VIA	DATE SENT	TIME SENT	COOLER #

WELL GAUGING DATA

Project # 001012 RZ Date 10/12/00 Client Equiva

Site 4255 MacArthur Oakland

	Well ID	Well Size (in.)	Sheen / Odor	Depth to Immiscible Liquid (ft.)	Thickness of Immiscible Liquid (ft.)	Volume of Immiscibles Removed (ml)	Depth to water (ft.)	Depth to well bottom (ft.)	Survey Point: TOB or TOC	DO / ORP
4	MW 1	4		ORC in well during gaging			7.71	23.21		7.20 /
6	MW 2	4		ORC in well during gaging		no product	11.32	19.40		0.4 /
5	MW 3	4		ORC in well during gaging		no prod	14.15	21.55		0.9 /
7	[redacted]			ORC in well						
2	[redacted]			ORC in well gaged w/ ORC in place						
1	TB 2	4	odor	gaged	w/ ORC in place	in	4.05	17.92	TOC	0.6 / -47
	TB 1	4		gaged	w/ ORC in place		5.20	17.29	TOC	0.7 / -73
3	MW 4	2		ORC removed			9.35	30.11	TOC	3.5 / 529

EQUIVA WELL MONITORING DATA SHEET

BTS #: 00107 RA	Site: [illegible]
Sampler: Jared	Date: 10/12/00
Well I.D.: MW-1	Well Diameter: 2 3 (4) 6 8 ___
Total Well Depth: 23.21	Depth to Water: 7.71
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): (YSI) HACH

Purge Method:

- Bailer
- Disposable Bailer
- Middleburg
- (Electric Submersible)
- Waterra
- Peristaltic
- Extraction Pump
- Other _____

Sampling Method: (Bailer)

- Disposable Bailer
- Extraction Port
- Dedicated Tubing
- Other: _____

10.3 (Gals.) X 3 = 30.9 Gals.
1 Case Volume | Specified Volumes | Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	(4")	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius² * 0.163

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
1358	68.6	10.0	915	26	11	
1400	69.3	9.6	910	23	22	
1402	66.6	9.9	1030	16	33	
1404	70.1	9.7	1031	15	44	

Did well dewater? Yes (No) Gallons actually evacuated: 44

Sampling Time: 1405 Sampling Date:

Sample I.D.: MW-1 Laboratory: (Sequoia) Columbia Other _____

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

EB I.D. (if applicable): @ Time Duplicate I.D. (if applicable):

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

D.O. (if req'd):	Pre-purge:	>20.0 mg/l	Post-purge:	mg/l
O.R.P. (if req'd):	Pre-purge:	[illegible] mV	Post-purge:	mV

EQUIVA WELL MONITORING DATA SHEET

BTS #: [illegible]	Site: [illegible]
Sampler: [illegible]	Date: 10/12/00
Well I.D.: [illegible] - 2	Well Diameter: 2 3 (4) 6 8 ___
Total Well Depth: 19.40	Depth to Water: 11.32
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC Grade	D.O. Meter (if req'd): (YSI) HACH

Purge Method:

Bailer	Waterra	
Disposable Bailer	Peristaltic	
Middleburg	Extraction Pump	
~~Electric Submersible~~	Other: ___	

Sampling Method: (Bailer) SEQUOIA

Disposable Bailer	
Extraction Port	
Dedicated Tubing	
Other: ___	

5.3 (Gals.) X 3 (Specified Volumes) = 15.9 Gals. (Calculated Volume)
1 Case Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	(4")	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius² * 0.163

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
1946	68.4	6.6	1100 µs	90	6	odor
1954	69.6	6.7	690	10.0	12	
1959	70.3	6.7	670	>200	15	

Did well dewater? Yes (No) Gallons actually evacuated: 15

Sampling Time: 1957 Sampling Date:

Sample I.D.: [illegible] - 2 Laboratory: (Sequoia) Columbia other: ___

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

EB I.D. (if applicable): @ Time Duplicate I.D. (if applicable):

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

D.O. (if req'd):	Pre-purge:	5.4 mg/L	Post-purge:	mg/L
ORP (if req'd):	Pre-purge:	55 mV	Post-purge:	mV

EQUIVA WELL MONITORING DATA SHEET

BTS #: [illegible]	Site: [illegible]
Sampler: [illegible]	Date: 10/3/00
Well I.D.: MW-3	Well Diameter: 2 3 (4) 6 8 ___
Total Well Depth: 21.55	Depth to Water: 14.15
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC Grade	D.O. Meter (if req'd): (YSI) HACH

Purge Method:

Bailer
Disposable Bailer
Middleburg
(Electric Submersible)
Waterra
Peristaltic
Extraction Pump
Other _____

Sampling Method: (Bailer)

Disposable Bailer
Extraction Port
Dedicated Tubing
Other: _____

4.8 (Gals.) X 3 = 14.4 Gals.

1 Case Volume | Specified Volumes | Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.01	(4")	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius² * 0.163

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
1425	68.7	7.7	1080 µS	17	5	
1430	66.6	7.7	1090	22	10	
1435	68.3	7.5	1110	23	15	

Did well dewater? Yes (No) Gallons actually evacuated: 15

Sampling Time: 1450 Sampling Date:

Sample I.D.: MW-3 Laboratory: Sequoia Columbia Other _____

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

EB I.D. (if applicable): @ Time Duplicate I.D. (if applicable):

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

BTS #: [illegible]	Site: [illegible]
Sampler: [illegible]	Date: 10/17/00
Well I.D.: [illegible] - 4	Well Diameter: (2) 3 4 6 8 ___
Total Well Depth: 30.11	Depth to Water: 9.75
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC Grade	D.O. Meter (if req'd): (YSI) HACH

Purge Method:

- Bailer
- (Disposable Bailer)
- Middleburg
- Electric Submersible
- Waterra
- Perisraltic
- Extraction Pump
- Other _____

Sampling Method:

- Bailer
- (Disposable Bailer)
- Extraction Port
- Dedicated Tubing
- Other: _____

3.7 (Gals.) X 3 = 99 Gals.
1 Case Volume | Specified Volumes | Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
(2")	0.16	6"	1.47
3"	0.37	Other	radius² * 0.163

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
1124	68.2	7.1	1115	196	33	
1127	68	6.8	1130	162	66	
1133	68.1	6.8	1126	175	99	

Did well dewater? Yes (No) Gallons actually evacuated: 100

Sampling Time: 1135 Sampling Date:

Sample I.D.: [illegible] - 4 Laboratory: (Sequoia) Columbia Other: _____

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

EB I.D. (if applicable): @ Time Duplicate I.D. (if applicable):

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

D.O. (if req'd): Pre-purge: 3.5 mg/L Post-purge: mg/L

O.R.P. (if req'd): Pre-purge: 52 mV Post-purge: mV

ATTACHMENT B

Analytical Results for Groundwater Extraction Event

Sequoia Analytical

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Petaluma, CA 94954
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November 30 , 2000

Troy Buggle
Cambria Environmental - Oakland
1144 65th St., Suite C
Oakland, CA 94608
RE: Equiva

Enclosed are the results of analyses for samples received by the laboratory on 11/16/00 12:20. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Richard Stover
Project Manager

CA ELAP Certificate Number 2374

Sequoia Analytical

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Cambria Environmental - Oakland	Project: Equiva	
1144 65th St., Suite C	Project Number: 4255 Mac Arthur Blvd, Oakland	**Reported:**
Oakland CA, 94608	Project Manager: Troy Buggle	11/30/00 13:29

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-2	P011464-01	Air	11/16/00 10:30	11/16/00 12:20
TB-2	P011464-02	Water	11/16/00 11:00	11/16/00 12:20

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Cambria Environmental - Oakland	Project: Equiva	
1144 65th St., Suite C	Project Number: 4255 Mac Arthur Blvd, Oakland	**Reported:**
Oakland CA, 94608	Project Manager: Troy Buggle	11/30/00 13:29

Total Petroleum Hydrocarbons as Gasoline and BTEX by EPA 8015M/8020M

Sequoia Analytical - Petaluma

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-2 (P011464-01) Air Sampled: 11/16/00 10:30 Received: 11/16/00 12:20									
Gasoline (ppmv, MW 86.2)	**663**	71.0	ppmv	5	0110453	11/17/00	11/17/00	EPA 8015M/8020M	
Benzene (ppmv)	**7.00**	0.785	"	"	"	"	"	"	
Toluene (ppmv)	**8.28**	0.665	"	"	"	"	"	"	
Ethylbenzene (ppmv)	ND	0.575	"	"	"	"	"	"	
Xylenes (total) (ppmv)	**23.1**	0.575	"	"	"	"	"	"	
Methyl tert-butyl ether (ppmv)	**42.0**	2.78	"	"	"	"	"	"	
Gasoline	**2340**	250	ug/l	"	"	"	"	"	
Benzene	**22.3**	2.50	"	"	"	"	"	"	
Toluene	**31.2**	2.50	"	"	"	"	"	"	
Ethylbenzene	**22.5**	2.50	"	"	"	"	"	"	
Xylenes (total)	**100**	2.50	"	"	"	"	"	"	
Methyl tert-butyl ether	**151**	12.5	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*113 %*	*65-135*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*90.3 %*	*65-135*		"	"	"	"	
TB-2 (P011464-02) Water Sampled: 11/16/00 11:00 Received: 11/16/00 12:20									
Gasoline	**107000**	10000	ug/l	200	0110453	11/20/00	11/20/00	EPA 8015M/8020M	
Benzene	**3390**	100	"	"	"	"	"	"	
Toluene	**31600**	100	"	"	"	"	"	"	
Ethylbenzene	**3130**	100	"	"	"	"	"	"	
Xylenes (total)	**22400**	100	"	"	"	"	"	"	
Methyl tert-butyl ether	**16800**	500	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*111 %*	*65-135*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*84.7 %*	*65-135*		"	"	"	"	

Sequoia Analytical

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www.sequoialabs.com

Cambria Environmental - Oakland	Project: Equiva	
1144 65th St., Suite C	Project Number: 4255 Mac Arthur Blvd, Oakland	**Reported:**
Oakland CA, 94608	Project Manager: Troy Buggle	11/30/00 13:29

Volatile Organic Compounds by EPA Method 8260B

Sequoia Analytical - Petaluma

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-2 (P011464-01) Air Sampled: 11/16/00 10:30 Received: 11/16/00 12:20									
Methyl tert-butyl ether	**176**	5.00	ug/l	10	0110486	11/19/00	11/19/00	EPA 8260B	
Surrogate: Dibromofluoromethane		*95.6 %*		*88-118*		"	"	"	
TB-2 (P011464-02) Water Sampled: 11/16/00 11:00 Received: 11/16/00 12:20									
Methyl tert-butyl ether	**14600**	1250	ug/l	2500	0110596	11/27/00	11/27/00	EPA 8260B	
Surrogate: Dibromofluoromethane		*92.6 %*		*88-118*		"	"	"	

Sequoia Analytical

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Cambria Environmental - Oakland	Project: Equiva	**Reported:**
1144 65th St., Suite C	Project Number: 4255 Mac Arthur Blvd, Oakland	11/30/00 13:29
Oakland CA, 94608	Project Manager: Troy Buggle	

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

Sequoia Analytical - Petaluma

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 0110453 - EPA 5030 waters										
Blank (0110453-BLK1)				Prepared & Analyzed: 11/17/00						
Gasoline	ND	50.0	ug/l							
Benzene	ND	0.500	"							
Toluene	ND	0.500	"							
Ethylbenzene	ND	0.500	"							
Xylenes (total)	ND	0.500	"							
Methyl tert-butyl ether	ND	2.50	"							
Surrogate: a,a,a-Trifluorotoluene	*320*		"	*300*		*107*	*65-135*			
Surrogate: 4-Bromofluorobenzene	*263*		"	*300*		*87.7*	*65-135*			
Blank (0110453-BLK2)				Prepared & Analyzed: 11/20/00						
Gasoline	ND	50.0	ug/l							
Benzene	ND	0.500	"							
Toluene	ND	0.500	"							
Ethylbenzene	ND	0.500	"							
Xylenes (total)	ND	0.500	"							
Methyl tert-butyl ether	ND	2.50	"							
Surrogate: a,a,a-Trifluorotoluene	*319*		"	*300*		*106*	*65-135*			
Surrogate: 4-Bromofluorobenzene	*262*		"	*300*		*87.3*	*65-135*			
LCS (0110453-BS1)				Prepared & Analyzed: 11/17/00						
Gasoline	2200	50.0	ug/l	2750		80.0	65-135			
Benzene	35.2	0.500	"	32.0		110	65-135			
Toluene	175	0.500	"	193		90.7	65-135			
Ethylbenzene	45.4	0.500	"	46.0		98.7	65-135			
Xylenes (total)	221	0.500	"	231		95.7	65-135			
Methyl tert-butyl ether	68.1	2.50	"	52.0		131	65-135			
Surrogate: a,a,a-Trifluorotoluene	*352*		"	*300*		*117*	*65-135*			
Surrogate: 4-Bromofluorobenzene	*285*		"	*300*		*95.0*	*65-135*			

Sequoia Analytical

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Cambria Environmental - Oakland	Project: Equiva	
1144 65th St., Suite C	Project Number: 4255 Mac Arthur Blvd, Oakland	**Reported:**
Oakland CA, 94608	Project Manager: Troy Buggle	11/30/00 13:29

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

Sequoia Analytical - Petaluma

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 0110453 - EPA 5030 waters										
LCS (0110453-BS2)				Prepared & Analyzed: 11/20/00						
Gasoline	2150	50.0	ug/l	2750		78.2	65-135			
Benzene	33.4	0.500	"	32.0		104	65-135			
Toluene	164	0.500	"	193		85.0	65-135			
Ethylbenzene	43.8	0.500	"	46.0		95.2	65-135			
Xylenes (total)	208	0.500	"	231		90.0	65-135			
Methyl tert-butyl ether	68.8	2.50	"	52.0		132	65-135			
Surrogate: a,a,a-Trifluorotoluene	*339*		"	*300*		*113*	*65-135*			
Surrogate: 4-Bromofluorobenzene	*284*		"	*300*		*94.7*	*65-135*			
Matrix Spike (0110453-MS1)		**Source: P011329-01**		Prepared & Analyzed: 11/17/00						
Gasoline	2370	50.0	ug/l	2750	ND	86.2	65-135			
Benzene	38.8	0.500	"	32.0	1.68	116	65-135			
Toluene	179	0.500	"	193	ND	92.6	65-135			
Ethylbenzene	49.3	0.500	"	46.0	0.695	106	65-135			
Xylenes (total)	230	0.500	"	231	2.21	98.6	65-135			
Methyl tert-butyl ether	58.8	2.50	"	52.0	ND	111	65-135			
Surrogate: a,a,a-Trifluorotoluene	*349*		"	*300*		*116*	*65-135*			
Surrogate: 4-Bromofluorobenzene	*284*		"	*300*		*94.7*	*65-135*			
Matrix Spike Dup (0110453-MSD1)		**Source: P011329-01**		Prepared & Analyzed: 11/17/00						
Gasoline	2320	50.0	ug/l	2750	ND	84.4	65-135	2.13	20	
Benzene	39.6	0.500	"	32.0	1.68	118	65-135	2.04	20	
Toluene	186	0.500	"	193	ND	96.2	65-135	3.84	20	
Ethylbenzene	50.7	0.500	"	46.0	0.695	109	65-135	2.80	20	
Xylenes (total)	241	0.500	"	231	2.21	103	65-135	4.67	20	
Methyl tert-butyl ether	62.2	2.50	"	52.0	ND	118	65-135	5.62	20	
Surrogate: a,a,a-Trifluorotoluene	*363*		"	*300*		*121*	*65-135*			
Surrogate: 4-Bromofluorobenzene	*278*		"	*300*		*92.7*	*65-135*			

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Cambria Environmental - Oakland	Project: Equiva	
1144 65th St., Suite C	Project Number: 4255 Mac Arthur Blvd, Oakland	**Reported:**
Oakland CA, 94608	Project Manager: Troy Buggle	11/30/00 13:29

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Sequoia Analytical - Petaluma

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 0110486 - EPA 5030 waters										
Blank (0110486-BLK1)				Prepared & Analyzed: 11/18/00						
Methyl tert-butyl ether	ND	0.500	ug/l							
Surrogate: Dibromofluoromethane	*4.66*		"	*5.00*		*93.2*	*88-118*			
Blank (0110486-BLK2)				Prepared & Analyzed: 11/19/00						
Methyl tert-butyl ether	ND	0.500	ug/l							
Surrogate: Dibromofluoromethane	*4.56*		"	*5.00*		*91.2*	*88-118*			
LCS (0110486-BS1)				Prepared & Analyzed: 11/18/00						
Methyl tert-butyl ether	5.35	0.500	ug/l	5.00		107	79-118			
Surrogate: Dibromofluoromethane	*4.79*		"	*5.00*		*95.8*	*88-118*			
LCS (0110486-BS2)				Prepared & Analyzed: 11/19/00						
Methyl tert-butyl ether	5.42	0.500	ug/l	5.00		108	79-118			
Surrogate: Dibromofluoromethane	*4.96*		"	*5.00*		*99.2*	*88-118*			
Matrix Spike (0110486-MS1)		**Source: P011347-01**		Prepared & Analyzed: 11/18/00						
Methyl tert-butyl ether	5.01	0.500	ug/l	5.00	ND	100	79-118			
Surrogate: Dibromofluoromethane	*4.98*		"	*5.00*		*99.6*	*88-118*			
Matrix Spike Dup (0110486-MSD1)		**Source: P011347-01**		Prepared & Analyzed: 11/18/00						
Methyl tert-butyl ether	5.11	0.500	ug/l	5.00	ND	102	79-118	1.98	20	
Surrogate: Dibromofluoromethane	*4.95*		"	*5.00*		*99.0*	*88-118*			
Batch 0110596 - EPA 5030 waters										
Blank (0110596-BLK1)				Prepared & Analyzed: 11/26/00						
Methyl tert-butyl ether	ND	0.500	ug/l							
Surrogate: Dibromofluoromethane	*4.69*		"	*5.00*		*93.8*	*88-118*			

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Cambria Environmental - Oakland	Project: Equiva	
1144 65th St., Suite C	Project Number: 4255 Mac Arthur Blvd, Oakland	**Reported:**
Oakland CA, 94608	Project Manager: Troy Buggle	11/30/00 13:29

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Sequoia Analytical - Petaluma

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 0110596 - EPA 5030 waters										
Blank (0110596-BLK2)				Prepared & Analyzed: 11/27/00						
Methyl tert-butyl ether	ND	0.500	ug/l							
Surrogate: Dibromofluoromethane	*4.70*		"	*5.00*		*94.0*	*88-118*			
LCS (0110596-BS1)				Prepared & Analyzed: 11/26/00						
Methyl tert-butyl ether	0.952	0.500	ug/l	1.00		95.2	79-118			
Surrogate: Dibromofluoromethane	*4.61*		"	*5.00*		*92.2*	*88-118*			
LCS (0110596-BS2)				Prepared & Analyzed: 11/27/00						
Methyl tert-butyl ether	4.92	0.500	ug/l	5.00		98.4	79-118			
Surrogate: Dibromofluoromethane	*4.64*		"	*5.00*		*92.8*	*88-118*			
Matrix Spike (0110596-MS1)		**Source: P011473-01**		Prepared & Analyzed: 11/26/00						
Methyl tert-butyl ether	1.06	0.500	ug/l	1.00	ND	106	79-118			
Surrogate: Dibromofluoromethane	*4.81*		"	*5.00*		*96.2*	*88-118*			
Matrix Spike Dup (0110596-MSD1)		**Source: P011473-01**		Prepared & Analyzed: 11/26/00						
Methyl tert-butyl ether	1.09	0.500	ug/l	1.00	ND	109	79-118	2.79	20	
Surrogate: Dibromofluoromethane	*4.83*		"	*5.00*		*96.6*	*88-118*			

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Cambria Environmental - Oakland	Project: Equiva	
1144 65th St., Suite C	Project Number: 4255 Mac Arthur Blvd, Oakland	**Reported:**
Oakland CA, 94608	Project Manager: Troy Buggle	11/30/00 13:29

Notes and Definitions

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
RPD	Relative Percent Difference

EQUIVA Services LLC Chain Of Custody Record

135701

MH - 885 Jarvis Drive, Morgan Hill, CA 95037
408-778-9600, fax 408-782-6308

PET - 1455 McDowell Blvd., #D, Petaluma, CA 94954
707-792-1865, fax 707-792-0342

SAC - 819 Striker Ave., #8, Sacramento, CA 95834
916-921-9600, fax 916-921-0100

SC - 1551 Industrial Road, San Carlos, CA 94070
650-232-9600, fax 650-232-9612

Equiva Project Manager to be invoiced: Karen Petryna

☒ SCIENCE & ENGINEERING ☐ TECHNICAL SERVICES ☐ CRMT HOUSTON

INCIDENT NUMBER (S&E ONLY): 98995758

SAP or CRMT NUMBER (TS/CRMT):

DATE: 11/16/00

PAGE: 1 of 1

CONSULTANT COMPANY: Cambria

ADDRESS: 1144 65th St, Suite B

CITY: Oakland CA

TELEPHONE: 5104203333 FAX: 420 9170 E-MAIL: Hbuggle@cambria-env.com

SITE ADDRESS (Street and City): 4255 MacArthur Blvd.

PROJECT CONTACT (Report to): TROY BUGGLE

CONSULTANT PROJECT NO.: 242-0524

SAMPLER NAME(S) (Print): TROY BUGGLE

LABORATORY:

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

☐ LA - RWQCB REPORT FORMAT ☐ UST AGENCY:

GC/MS MTBE CONFIRMATION: HIGHEST _____ HIGHEST per BORING _____ ALL ☒

SPECIAL INSTRUCTIONS OR NOTES: TEMPERATURE ON RECEIPT C°

Air Sample - 48 hr TAT

Water Samples - Standard TAT

REQUESTED ANALYSIS

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	TPH - Purgeable (8015m)	TPH - Extractable (8015m)	BTEX / MTBE (8021B)	BTEX / MTBE + Oxygenates (8260B)	VOCs Full List + Oxygenates (8260B)	MTBE (8260B) Confirmation, See Note	EPA 5035 Extraction for Volatiles	VOCs Halogenated/Aromatic (8021B)	Ethanol, Methanol (8015B)	Metals (Specify)	TRPH (418.1)	Vapor VOCs BTEX / MTBE (TO-15)	Vapor VOCs Full List (TO-15)	Vapor TPH (ASTM 3416m)	Vapor Fixed Gases (ASTM D1946)	Test for Disposal (4B-)	Confirm Any MTBE by 8260			
	MW2	11/16/00	10:30	Air	1	X		X		PO 114641-01												X			
	↳ Report concentrations in PPMV																								
	TB-2	11/16/00	11:00	W	5	X		X														X			

COOLER CUSTODY SEALS INTACT ☐ NOT INTACT ☐

COOLER TEMPERATURE 6 °C

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

Hot! 415 ppm ?PID

Confirm Any MTBE (8020) by 8260!

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Troy A Bugg 11/16/00 12:15p	Alorenz	11/16/0	1220
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

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

10/23/00 Revision