

CAMBRIA

ENVIRONMENTAL
PROTECTION

March 23, 2000

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

00:00:30 AM: 25

STIP 295

Re: **First Quarter 2000 Monitoring Report**
Former Shell Service Station
1230 14th Street
Oakland, California
Incident #97088250
Cambria Project #242-0233-002



Dear Mr. Seto:

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.

FIRST QUARTER 2000 ACTIVITIES

Groundwater Monitoring: Blaine Tech Services, Inc. (Blaine) of San Jose, California gauged water levels, measured dissolved oxygen (DO) concentrations, sampled selected wells, and calculated groundwater elevations. Cambria prepared a groundwater elevation contour map (Figure 1). The Blaine report, with supporting field notes, is included as Attachment A.

Well Elevation Surveying: On March 7, 2000, Virgil Chavez Surveying of Vallejo, California re-surveyed all of the site wells to top of casing. Survey results are presented as Attachment B.

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

ANTICIPATED FUTURE 2000 ACTIVITIES

Second Quarter 2000 Groundwater Monitoring: Blaine will gauge water levels, measure DO concentrations, and tabulate the data. Cambria will prepare a monitoring report.

Cambria
Environmental
Technology, Inc.

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

Third Quarter 2000 Groundwater Monitoring: Blaine will gauge water levels, measure DO concentrations, sample selected site wells, and tabulate the data. Wells MW-1, VW/MW-2, VW/MW-4, and VW/AS-1 will be analyzed for MTBE by EPA Method 8260. Cambria will prepare a monitoring 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

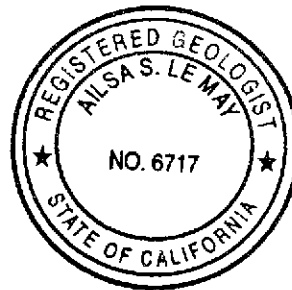
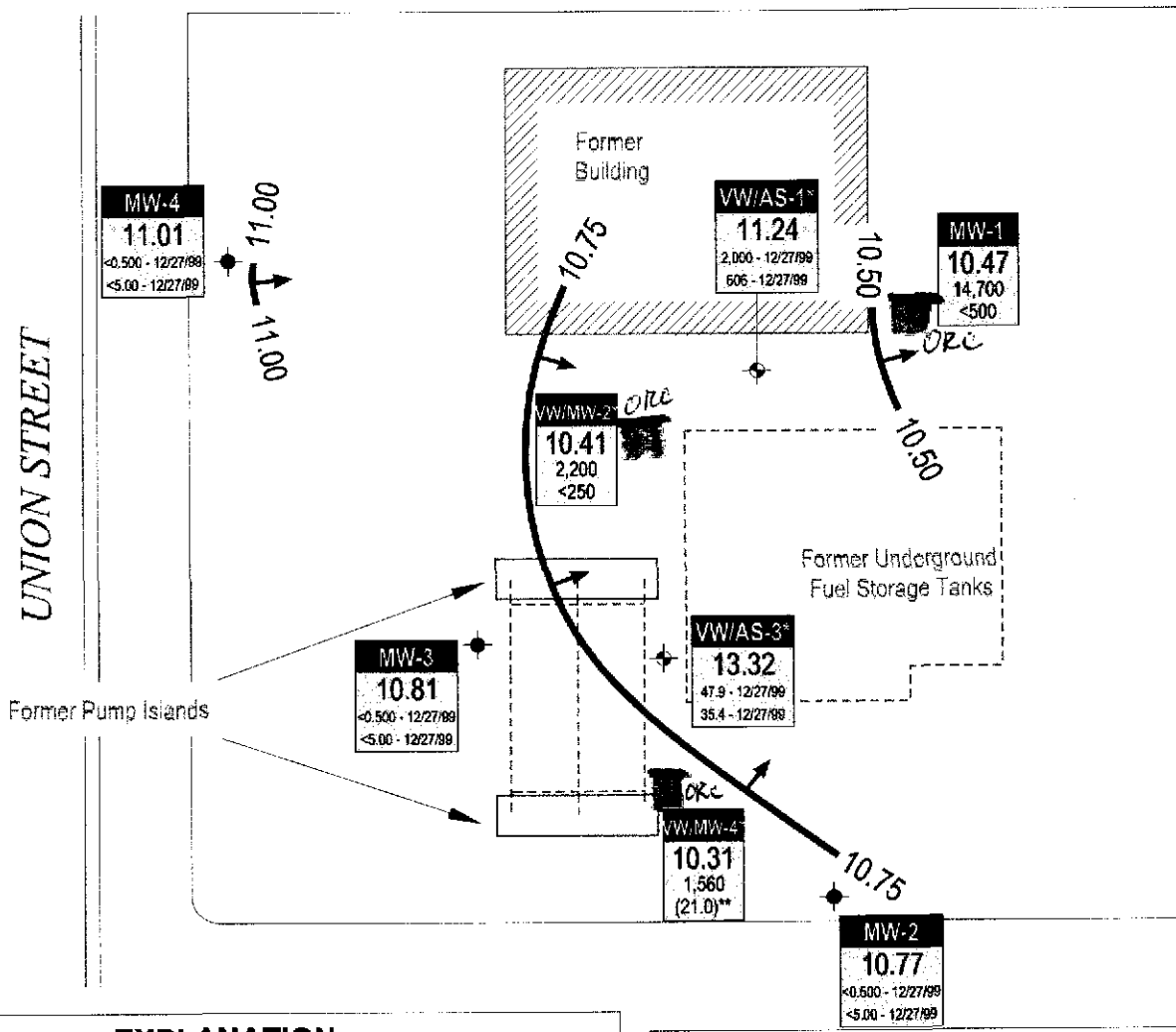


Figure: 1 - Groundwater Elevation Contour Map
Attachment: A - Blaine Groundwater Monitoring Report and Field Notes
B - Chavez Survey Results

cc: Karen Petryna, Equiva Services LLC, P.O. Box 7869, Burbank, California 91501-7869
Tom Saberi, 1045 Airport Boulevard, Suite 12, South San Francisco, CA 94080

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EXPLANATION

- MW-1 ◆ Monitoring well location
 - VW/AS-1 ◆ Combination air sparge/soil vapor extraction well
 - VW/MW-2 ◆ Combination soil vapor extraction well/monitoring well
 - * Data anomalous, well not contoured
 - ** MTBE by EPA Method 8260 run out of hold time
 - Groundwater flow direction
 - XX.XX Groundwater elevation contour, in feet above mean sea level (msl), approximately located; dashed where inferred
- | | |
|-----------------|---|
| Well | Well designation |
| ELEV | Groundwater elevation, in feet above msl |
| Benzene
MTBE | Benzene and MTBE concentrations are in parts per billion and are analyzed by EPA Method 8020; MTBE results in parentheses are analyzed by EPA Method 8260 |

14TH STREET

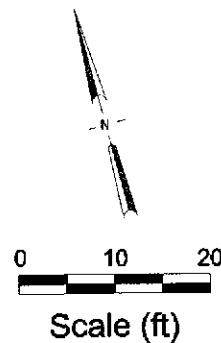


FIGURE
1

Former Shell Service Station
 1230 14th Street
 Oakland, California
 Incident #97088250



Groundwater Elevation Contour Map
 Sampling date: January 21, 2000
 Gauging date: March 7, 2000

ATTACHMENT A

Blaine Groundwater 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

March 14, 2000

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

First Quarter 2000 Groundwater Monitoring at
Shell-branded Service Station
1230 14th Street
Oakland, CA

Monitoring performed on January 21 and March 7, 2000

Groundwater Monitoring Report 000121-I-1

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, 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. Purgewater (if applicable) is, likewise, collected and transported to the Martinez Refining Company.

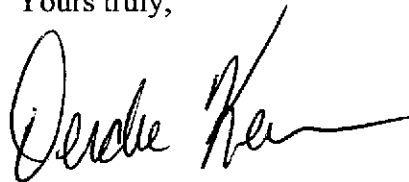
Basic field information is presented alongside analytical values excerpted from the laboratory report in the cumulative table of **WELL CONCENTRATIONS**. The full analytical report for the most recent samples and the field data sheets are attached to this report.

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

Blaine Tech Services, Inc. conducts sampling and documentation assignments of this type as an independent third party. 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", with a long horizontal flourish extending to the right.

Deidre Kerwin
Operations Manager

DK/jh

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

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

WELL CONCENTRATIONS
Shell-branded Service Station
1230 14th Street
Oakland, CA
Wic #204-5508-3103

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)	DO Reading (ppm)
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MW-1	03/25/1996	37,000	7,400	1,500	720	3,300	<500	NA	18.58	9.53	9.05	NA
MW-1	06/21/1996	35,000	9,900	460	340	3,500	890	NA	18.58	10.72	7.86	NA
MW-1	09/26/1996	19,000	8,200	510	780	790	<250	NA	18.58	12.88	5.70	NA
MW-1	12/19/1996	27,000	120	1,200	1,400	2,800	<100	NA	18.58	12.59	5.99	NA
MW-1	12/19/1996	32,000	12,000	1,300	1,600	3,100	830	NA	18.58	12.59	5.99	NA
MW-1	03/25/1997	39,000	13,000	1,600	840	3,100	730	NA	18.58	11.10	7.48	1.2
MW-1	06/26/1997	NA	NA	NA	NA	NA	NA	NA	18.58	12.42	6.16	NA
MW-1	09/26/1997	NA	NA	NA	NA	NA	NA	NA	18.58	13.31	5.27	0.8
MW-1	12/05/1997	NA	NA	NA	NA	NA	NA	NA	18.58	12.65	5.93	0.3
MW-1	02/19/1998	16,000	5,500	450	500	800	<500	NA	18.58	6.46	12.12	2.4
MW-1	06/08/1998	NA	NA	NA	NA	NA	NA	NA	18.58	6.62	11.96	1.2
MW-1	08/25/1998	NA	NA	NA	NA	NA	NA	NA	18.58	11.83	6.75	2.8
MW-1	12/28/1998	NA	NA	NA	NA	NA	NA	NA	18.58	12.01	6.57	2.6
MW-1	03/26/1999	NA	NA	NA	NA	NA	NA	NA	18.58	9.15	9.43	2.2
MW-1	06/30/1999	NA	NA	NA	NA	NA	NA	NA	18.58	11.22	7.36	3.8
MW-1	09/30/1999	NA	NA	NA	NA	NA	NA	NA	18.58	11.89	6.69	3.0
MW-1	12/27/1999	34,800	8,660	953	956	2,770	<1,000	NA	18.58	13.55	5.03	2.4/2.1
MW-1	01/21/2000	40,600	14,700	1,850	1,210	3,670	<500	NA	18.58	13.42	5.16	2.8
MW-1	03/07/2000	NA	NA	NA	NA	NA	NA	NA	18.58	6.11	10.47	0.4

*ORC added
back in well
2/98*

MW-2	03/25/1996	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	17.90	8.19	9.71	NA
MW-2	06/21/1996	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	17.90	9.94	7.96	NA
MW-2	09/26/1996	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	17.90	12.15	5.75	NA
MW-2	12/19/1996	<50	<0.5	<0.5	<0.5	<0.5	<2.5	NA	17.90	11.70	6.20	NA
MW-2	03/25/1997	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	17.90	9.25	8.65	1.8
MW-2	06/26/1997	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	17.90	11.36	6.54	2.4

WELL CONCENTRATIONS
Shell-branded Service Station
1230 14th Street
Oakland, CA
Wic #204-5508-3103

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)	DO Reading (ppm)
MW-2	09/26/1997	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	17.90	12.56	5.34	1.1
MW-2	09/26/1997	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	17.90	12.56	5.34	1.1
MW-2	12/05/1997	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	17.90	11.15	6.75	0.7
MW-2	02/19/1998	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	17.90	5.61	12.29	2.7
MW-2	06/08/1998	<50	<0.30	<0.30	<0.30	<0.60	<10	NA	17.90	5.58	12.32	3.2
MW-2	08/25/1998	NA	NA	NA	NA	NA	NA	NA	17.90	10.67	7.23	1.7
MW-2	12/28/1998	<50.0	<0.500	<0.500	<0.500	<0.500	<2.00	NA	17.90	11.65	6.25	0.4/0.8
MW-2	03/26/1999	NA	NA	NA	NA	NA	NA	NA	17.90	8.60	9.30	0.7
MW-2	06/30/1999	<50.0	<0.500	<0.500	<0.500	<0.500	<5.00	NA	17.90	10.30	7.60	2.3
MW-2	09/30/1999	NA	NA	NA	NA	NA	NA	NA	17.90	10.77	7.13	1.9
MW-2	12/27/1999	<50.0	<0.500	<0.500	<0.500	<0.500	<5.00	NA	17.90	12.21	5.69	0.7/0.7
MW-2	03/07/2000	NA	NA	NA	NA	NA	NA	NA	17.90	7.13	10.77	1.1
MW-3	03/25/1996	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	18.18	8.47	9.71	NA
MW-3	06/21/1996	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	18.18	10.40	7.78	NA
MW-3	09/26/1996	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	18.18	12.45	5.73	NA
MW-3	12/19/1996	<50	<0.5	<0.5	<0.5	<0.5	<2.5	NA	18.18	12.14	6.02	NA
MW-3	03/25/1997	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	18.18	9.54	8.64	2.2
MW-3	06/26/1997	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	18.18	11.66	6.52	3.6
MW-3	09/26/1997	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	18.18	12.85	5.33	1.1
MW-3	12/05/1997	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	18.18	11.44	6.74	0.6
MW-3	02/19/1998	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	18.18	6.78	11.40	3.6
MW-3	06/08/1998	<50	<0.30	<0.30	<0.30	<0.60	<10	NA	18.18	6.82	11.36	3.8
MW-3	06/08/1998	<50	<0.30	<0.30	<0.30	<0.60	<10	NA	18.18	6.82	11.36	3.8
MW-3	08/25/1998	NA	NA	NA	NA	NA	NA	NA	18.18	11.09	7.09	1.2
MW-3	12/28/1998	<50.0	<0.500	<0.500	<0.500	<0.500	<2.00	NA	18.18	11.84	6.34	0.9/0.6

WELL CONCENTRATIONS
Shell-branded Service Station
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MW-3	03/26/1999	NA	NA	NA	NA	NA	NA	NA	18.18	8.57	9.61	0.8
MW-3	06/30/1999	<50.0	<0.500	<0.500	<0.500	<0.500	<5.00	NA	18.18	10.61	7.57	4.8
MW-3	09/30/1999	NA	NA	NA	NA	NA	NA	NA	18.18	11.53	6.65	1.4
MW-3	12/27/1999	<50.0	<0.500	<0.500	<0.500	<0.500	<5.00	NA	18.18	12.35	5.83	1.4/2.5
MW-3	03/07/2000	NA	NA	NA	NA	NA	NA	NA	18.17	7.36	10.81	5.8
MW-4	03/25/1996	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	18.01	9.20	8.81	NA
MW-4	06/21/1996	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	18.01	10.25	7.76	NA
MW-4	09/26/1996	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	18.01	12.29	5.72	NA
MW-4	12/19/1996	<50	<0.5	<0.5	<0.5	<0.5	<2.5	NA	18.01	12.47	5.54	NA
MW-4	03/25/1997	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	18.01	9.44	8.57	1.8
MW-4	06/26/1997	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	18.01	11.57	6.44	6.2
MW-4 (D)	06/26/1997	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	18.01	11.57	6.44	6.2
MW-4	09/26/1997	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	18.01	12.75	5.26	2.1
MW-4	12/05/1997	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	18.01	11.37	6.64	1.0
MW-4 (D)	12/05/1997	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	18.01	11.37	6.64	1.0
MW-4	02/19/1998	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	18.01	5.59	12.42	6.5
MW-4	06/08/1998	<50	<0.30	<0.30	<0.30	<0.60	<10	NA	18.01	5.65	12.36	2.6
MW-4	08/25/1998	NA	NA	NA	NA	NA	NA	NA	18.01	10.98	7.03	2.4
MW-4	12/28/1998	<50.0	<0.500	<0.500	<0.500	<0.500	<2.00	NA	18.01	11.83	6.18	1.3/1.2
MW-4	03/26/1999	NA	NA	NA	NA	NA	NA	NA	18.01	8.40	9.61	1.9
MW-4	06/30/1999	<50.0	<0.500	<0.500	<0.500	<0.500	<5.00	NA	18.01	10.53	7.48	7.6
MW-4	09/30/1999	NA	NA	NA	NA	NA	NA	NA	18.01	11.03	6.98	2.6
MW-4	12/27/1999	<50.0	<0.500	<0.500	<0.500	<0.500	<5.00	NA	18.01	12.53	5.48	1.9/0.8
MW-4	03/07/2000	NA	NA	NA	NA	NA	NA	NA	18.01	7.00	11.01	6.5
VW/MW-2	03/25/1996	13,000	900	920	180	1,500	<250	NA	18.30	9.04	9.26	NA

WELL CONCENTRATIONS
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VW/MW-2	06/21/1996	27,000	4,100	1,100	1,400	3,200	700	NA	18.30	10.48	7.82	NA
VW/MW-2	09/26/1996	27,000	5,300	1,900	980	2,200	<500	NA	18.30	12.52	5.78	NA
VW/MW-2 (D)	09/26/1996	29,000	5,800	2,200	1,100	2,500	<250	NA	18.30	12.52	5.78	NA
VW/MW-2	12/19/1996	50,000	6,200	5,100	1,700	5,600	590	NA	18.30	12.42	5.88	NA
VW/MW-2	03/25/1997	210	5.6	<0.50	0.52	<0.50	14	NA	18.30	9.83	8.47	2.0
VW/MW-2 (D)	03/25/1997	250	1.7	0.58	0.51	<0.50	4.7	NA	18.30	9.83	8.47	2.0
VW/MW-2	06/26/1997	NA	NA	NA	NA	NA	NA	NA	18.30	12.43	5.87	NA
VW/MW-2	09/26/1997	NA	NA	NA	NA	NA	NA	NA	18.30	12.98	5.32	0.9
VW/MW-2	12/05/1997	NA	NA	NA	NA	NA	NA	NA	18.30	12.20	6.10	0.4
VW/MW-2	02/19/1998	<50	1.5	<0.50	<0.50	0.71	<2.5	NA	18.30	5.83	12.47	3.6
VW/MW-2	06/08/1998	NA	NA	NA	NA	NA	NA	NA	18.30	5.80	12.50	1.0
VW/MW-2	08/25/1998	NA	NA	NA	NA	NA	NA	NA	18.30	11.72	6.58	4.8
VW/MW-2	12/28/1998	NA	NA	NA	NA	NA	NA	NA	18.30	11.69	6.61	2.7
VW/MW-2	03/26/1999	NA	NA	NA	NA	NA	NA	NA	18.30	8.75	9.55	2.8
VW/MW-2	06/30/1999	NA	NA	NA	NA	NA	NA	NA	18.30	10.72	7.58	4.7
VW/MW-2	09/30/1999	NA	NA	NA	NA	NA	NA	NA	18.30	12.24	6.06	4.9
VW/MW-2	12/27/1999	13,500	1,330	1,310	490	1,400	<250	NA	18.30	13.92	4.38	2.1/1.9
VW/MW-2	01/21/2000	12,100	2,200	1,080	429	1,120	<250	NA	18.30	13.26	5.04	2.6
VW/MW-2	03/07/2000	NA	NA	NA	NA	NA	NA	NA	18.28	12.87	10.41	3.7

*ORC
Placed back
into well
in 2/98*

VW/MW-4	03/25/1996	83,000	6,500	7,000	2,000	11,000	<250	NA	18.14	8.45	9.69	NA
VW/MW-4 (D)	03/25/1996	84,000	6,400	7,000	2,100	12,000	<250	NA	18.14	8.45	9.69	NA
VW/MW-4	06/21/1996	110,000	14,000	15,000	3,700	17,000	1,700	NA	18.14	10.38	7.76	NA
VW/MW-4 (D)	06/21/1996	100,000	12,000	12,000	2,900	13,000	<1,000	NA	18.14	10.38	7.76	NA
VW/MW-4	09/26/1996	52,000	13,000	2,700	2,100	3,200	<500	NA	18.14	12.43	5.71	NA
VW/MW-4	12/19/1996	75,000	15,000	6,600	3,000	7,600	<1,250	NA	18.14	11.87	6.27	NA

WELL CONCENTRATIONS
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Wic #204-5508-3103

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)	DO Reading (ppm)
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VW/MW-4	03/25/1997	56,000	4,700	1,500	2,500	6,300	580	NA	18.14	9.60	8.54	2.4
VW/MW-4	06/26/1997	NA	NA	NA	NA	NA	NA	NA	18.14	12.36	5.78	NA
VW/MW-4	09/26/1997	NA	NA	NA	NA	NA	NA	NA	18.14	12.82	5.32	0.4
VW/MW-4	12/05/1997	NA	NA	NA	NA	NA	NA	NA	18.14	12.15	5.99	0.3
VW/MW-4	02/19/1998	4,100	320	40	44	520	<50	NA	18.14	5.85	12.29	1.8
VW/MW-4 (D)	02/19/98	4,300	340	44	47	540	<50	NA	18.14	5.85	12.29	1.8
VW/MW-4	06/08/1998	NA	NA	NA	NA	NA	NA	NA	18.14	5.87	12.27	1.8
VW/MW-4	08/25/1998	NA	NA	NA	NA	NA	NA	NA	18.14	10.96	7.18	2.5
VW/MW-4	12/28/1998	NA	NA	NA	NA	NA	NA	NA	18.14	11.28	6.86	0.9
VW/MW-4	03/26/1999	NA	NA	NA	NA	NA	NA	NA	18.14	8.45	9.69	1.9
VW/MW-4	06/30/1999	NA	NA	NA	NA	NA	NA	NA	18.14	9.70	8.44	3.6
VW/MW-4	09/30/1999	NA	NA	NA	NA	NA	NA	NA	18.14	11.78	6.36	2.6
VW/MW-4	12/27/1999	33,900	3,740	2,000	1,130	5,090	587	NA	18.14	12.63	5.51	0.4/0.2
VW/MW-4	01/21/2000	13,900	1,560	568	227	1,990	<500	21.0a	18.14	7.07	5.07	1.0
VW/MW-4	03/07/2000	NA	NA	NA	NA	NA	NA	NA	18.13	7.82	10.31	0.9

*ORC placed
lock into
well in
2/98*

VW/AS-1	03/25/1996	NA	NA	NA	NA	NA	NA	NA	18.60	8.98	9.62	NA
VW/AS-1	06/21/1996	NA	NA	NA	NA	NA	NA	NA	18.60	10.95	7.65	NA
VW/AS-1	09/26/1996	NA	NA	NA	NA	NA	NA	NA	18.60	12.98	5.62	NA
VW/AS-1	12/19/1996	NA	NA	NA	NA	NA	NA	NA	18.60	12.67	5.93	NA
VW/AS-1	03/25/1997	NA	NA	NA	NA	NA	NA	NA	18.60	10.12	8.48	NA
VW/AS-1	06/26/1997	NA	NA	NA	NA	NA	NA	NA	18.60	12.34	6.26	NA
VW/AS-1	09/26/1997	NA	NA	NA	NA	NA	NA	NA	18.60	13.40	5.20	NA
VW/AS-1	12/05/1997	NA	NA	NA	NA	NA	NA	NA	18.60	11.96	6.64	5.2
VW/AS-1	02/19/1998	NA	NA	NA	NA	NA	NA	NA	18.60	6.22	12.38	1.3
VW/AS-1	06/08/1998	NA	NA	NA	NA	NA	NA	NA	18.60	6.20	12.40	1.0

WELL CONCENTRATIONS
Shell-branded Service Station
1230 14th Street
Oakland, CA
Wic #204-5508-3103

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)	DO Reading (ppm)
VW/AS-1	08/25/1998	NA	NA	NA	NA	NA	NA	NA	18.60	11.59	7.01	1.6
VW/AS-1	12/28/1998	NA	NA	NA	NA	NA	NA	NA	18.60	11.74	6.86	1.3
VW/AS-1	03/26/1999	NA	NA	NA	NA	NA	NA	NA	18.60	9.20	9.40	1.3
VW/AS-1	06/30/1999	NA	NA	NA	NA	NA	NA	NA	18.60	11.08	7.52	2.1
VW/AS-1	09/30/1999	NA	NA	NA	NA	NA	NA	NA	18.60	11.94	6.66	1.9
VW/AS-1	12/27/1999	8,940	2,000	95.7	1,200	570	606	NA	18.60	11.01	7.59	1.6/1.8
VW/AS-1	03/07/2000	NA	NA	NA	NA	NA	NA	NA	18.59	7.35	11.24	NA
VW/AS-3	03/25/1996	NA	NA	NA	NA	NA	NA	NA	18.17	8.50	9.67	NA
VW/AS-3	06/21/1996	NA	NA	NA	NA	NA	NA	NA	18.17	10.42	7.75	NA
VW/AS-3	09/26/1996	NA	NA	NA	NA	NA	NA	NA	18.17	12.49	5.68	NA
VW/AS-3	12/19/1996	NA	NA	NA	NA	NA	NA	NA	18.17	12.28	5.89	NA
VW/AS-3	03/25/1997	NA	NA	NA	NA	NA	NA	NA	18.17	9.61	8.56	NA
VW/AS-3	06/26/1997	NA	NA	NA	NA	NA	NA	NA	18.17	11.80	6.37	NA
VW/AS-3	09/26/1997	NA	NA	NA	NA	NA	NA	NA	18.17	12.89	5.28	NA
VW/AS-3	12/05/1997	NA	NA	NA	NA	NA	NA	NA	18.17	11.38	6.79	1.8
VW/AS-3	02/19/1998	NA	NA	NA	NA	NA	NA	NA	18.17	6.24	11.93	1.3
VW/AS-3	06/08/1998	NA	NA	NA	NA	NA	NA	NA	18.17	6.25	11.92	1.2
VW/AS-3	08/25/1998	NA	NA	NA	NA	NA	NA	NA	18.17	11.43	6.74	1.3
VW/AS-3	12/28/1998	NA	NA	NA	NA	NA	NA	NA	18.17	11.63	6.54	1.7
VW/AS-3	03/26/1999	NA	NA	NA	NA	NA	NA	NA	18.17	8.92	9.25	1.5
VW/AS-3	06/30/1999	NA	NA	NA	NA	NA	NA	NA	18.17	10.71	7.46	2.5
VW/AS-3	09/30/1999	NA	NA	NA	NA	NA	NA	NA	18.17	11.78	6.39	1.5
VW/AS-3	12/27/1999	488	47.9	2.60	16.9	8.50	35.4	NA	18.17	12.57	5.60	1.5/2.1
VW/AS-3	03/07/2000	NA	NA	NA	NA	NA	NA	NA	18.14	4.82	13.32	NA

WELL CONCENTRATIONS
Shell-branded Service Station
1230 14th Street
Oakland, CA
Wic #204-5508-3103

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)	DO Reading (ppm)
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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 by EPA Method 8020

TOC = Top of Casing Elevation

GW = Groundwater

DO = Dissolved Oxygen

NA = Not applicable

ug/L = parts per billion

msl = Mean sea level

ft = Feet

<n = Below detection limit

D = Duplicate sample

n/n = Pre-purge/Post-purge DO Readings

Notes:

a = Sample was analyzed outside of the EPA recommended holding time.



Sequoia Analytical

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

February 12, 2000

Leah Davis
Blaine Tech Services (Shell)
1680 Rogers Avenue
San Jose, CA 95112

RE: Equiva 1230 14th Street, Oakland

Dear Leah Davis

Enclosed are the results of analyses for sample(s) received by the laboratory on January 24, 2000.
If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Kayvan Kimyai
Project Manager D.M.

CA ELAP Certificate Number 1210





Blaine Tech Services (Shell) 1680 Rogers Avenue San Jose, CA 95112	Project: Equiva Project Number: 1230 14th St. Project Manager: Leah Davis	Sampled: 1/21/00 Received: 1/24/00 Reported: 2/12/00 13:22
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ANALYTICAL REPORT FOR SAMPLES:

Sample Description	Laboratory Sample Number	Sample Matrix	Date Sampled
MW-1	MJA0067-01	Water	1/21/00
VWMW-2	MJA0067-02	Water	1/21/00
VWMW-4	MJA0067-03	Water	1/21/00





Blaine Tech Services (Shell) 1680 Rogers Avenue San Jose, CA 95112	Project: Equiva Project Number: 1230 14th St. Project Manager: Leah Davis	Sampled: 1/21/00 Received: 1/24/00 Reported: 2/12/00 13:22
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**Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT
Sequoia Analytical - Morgan Hill**

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method	Reporting Limit	Result	Units	Notes*
				<u>MJA0067-01</u>			<u>Water</u>	
Purgeable Hydrocarbons	0A28006	1/28/00	1/28/00	DHS LUFT	10000	40600	ug/l	P-01
Benzene	"	"	"	DHS LUFT	100	14700	"	
Toluene	"	"	"	DHS LUFT	100	1850	"	
Ethylbenzene	"	"	"	DHS LUFT	100	1210	"	
Xylenes (total)	"	"	"	DHS LUFT	100	3670	"	
Methyl tert-butyl ether	"	"	"	DHS LUFT	500	ND	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>	"	"	"	70-130		111	%	
				<u>MJA0067-02</u>			<u>Water</u>	
Purgeable Hydrocarbons	0A28006	1/28/00	1/28/00	DHS LUFT	5000	12100	ug/l	P-01
Benzene	"	"	"	DHS LUFT	50.0	2200	"	
Toluene	"	"	"	DHS LUFT	50.0	1080	"	
Ethylbenzene	"	"	"	DHS LUFT	50.0	429	"	
Xylenes (total)	"	"	"	DHS LUFT	50.0	1120	"	
Methyl tert-butyl ether	"	"	"	DHS LUFT	250	ND	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>	"	"	"	70-130		106	%	
				<u>MJA0067-03</u>			<u>Water</u>	
Purgeable Hydrocarbons	0A28006	1/28/00	1/28/00	DHS LUFT	10000	13900	ug/l	P-01
Benzene	"	"	"	DHS LUFT	100	1560	"	
Toluene	"	"	"	DHS LUFT	100	568	"	
Ethylbenzene	"	"	"	DHS LUFT	100	227	"	
Xylenes (total)	"	"	"	DHS LUFT	100	1990	"	
Methyl tert-butyl ether	"	"	"	DHS LUFT	500	ND	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>	"	"	"	70-130		101	%	





Blaine Tech Services (Shell) 1680 Rogers Avenue San Jose, CA 95112	Project: Equiva Project Number: 1230 14th St. Project Manager: Leah Davis	Sampled: 1/21/00 Received: 1/24/00 Reported: 2/12/00 13:22
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**MTBE by EPA Method 8260A
Sequoia Analytical - Morgan Hill**

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method	Reporting Limit	Result	Units	Notes*
<u>VWMW-4</u>				<u>MJA0067-03</u>			<u>Water</u>	<u>L-02</u>
Methyl tert-butyl ether	0B07020	2/4/00	2/4/00	EPA 8260A	0.500	21.0	ug/l	A-01a
Surrogate: 1,2-Dichloroethane-d4	"	"	"	70-130		NR	%	S-04





Blaine Tech Services (Shell) 1680 Rogers Avenue San Jose, CA 95112	Project: Equiva Project Number: 1230 14th St. Project Manager: Leah Davis	Sampled: 1/21/00 Received: 1/24/00 Reported: 2/12/00 13:22
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**Conventional Chemistry Parameters by APHA/EPA Methods
Sequoia Analytical - Petaluma**

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method	Reporting Limit	Result	Units	Notes*
<u>MW-1</u> Total Oil & Grease	0020043	2/2/00	2/3/00	<u>MJA0067-01</u> SM 5520B&F	5.00	ND	<u>Water</u> mg/l	
<u>VWMW-2</u> Total Oil & Grease	0020043	2/2/00	2/3/00	<u>MJA0067-02</u> SM 5520B&F	5.00	ND	<u>Water</u> mg/l	
<u>VWMW-4</u> Total Oil & Grease	0020043	2/2/00	2/3/00	<u>MJA0067-03</u> SM 5520B&F	5.00	ND	<u>Water</u> mg/l	





Blaine Tech Services (Shell) 1680 Rogers Avenue San Jose, CA 95112	Project: Equiva Project Number: 1230 14th St. Project Manager: Leah Davis	Sampled: 1/21/00 Received: 1/24/00 Reported: 2/12/00 13:22
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**Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT/Quality Control
Sequoia Analytical - Morgan Hill**

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Batch: 0A28006		Date Prepared: 1/28/00			Extraction Method: EPA 5030B [P/T]					
Blank		0A28006-BLK1								
Purgeable Hydrocarbons	1/28/00			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	"	2.50				
Surrogate: a,a,a-Trifluorotoluene	"	10.0		9.86	"	70-130	98.6			
LCS		0A28006-BS1								
Purgeable Hydrocarbons	1/28/00	250		237	ug/l	70-130	94.8			
Surrogate: a,a,a-Trifluorotoluene	"	10.0		10.9	"	70-130	109			
Matrix Spike		0A28006-MS1 MJA0064-01								
Purgeable Hydrocarbons	1/28/00	250	ND	231	ug/l	60-140	92.4			
Surrogate: a,a,a-Trifluorotoluene	"	10.0		8.53	"	70-130	85.3			
Matrix Spike Dup		0A28006-MSD1 MJA0064-01								
Purgeable Hydrocarbons	1/28/00	250	ND	236	ug/l	60-140	94.4	25	2.14	
Surrogate: a,a,a-Trifluorotoluene	"	10.0		8.55	"	70-130	85.5			





Blaine Tech Services (Shell) 1680 Rogers Avenue San Jose, CA 95112	Project: Equiva Project Number: 1230 14th St. Project Manager: Leah Davis	Sampled: 1/21/00 Received: 1/24/00 Reported: 2/12/00 13:22
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**MTBE by EPA Method 8260A/Quality Control
Sequoia Analytical - Morgan Hill**

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Batch: 0B07020			Date Prepared: 2/4/00			Extraction Method: EPA 5030B [P/T]				
Blank			0B07020-BLK1							
Methyl tert-butyl ether	2/4/00			ND	ug/l	0.500				
Surrogate: 1,2-Dichloroethane-d4	"	10.0		12.2	"	70-130	122			
Blank			0B07020-BLK2							
Methyl tert-butyl ether	2/5/00			ND	ug/l	0.500				
Surrogate: 1,2-Dichloroethane-d4	"	10.0		9.20	"	70-130	92.0			
LCS			0B07020-BS1							
Methyl tert-butyl ether	2/4/00	10.0		10.5	ug/l	70-130	105			
Surrogate: 1,2-Dichloroethane-d4	"	10.0		11.4	"	70-130	114			
LCS			0B07020-BS2							
Methyl tert-butyl ether	2/5/00	10.0		9.16	ug/l	70-130	91.6			
Surrogate: 1,2-Dichloroethane-d4	"	10.0		9.03	"	70-130	90.3			
Matrix Spike			0B07020-MS1 MJA0019-01							
Methyl tert-butyl ether	2/4/00	10000	14800	24200	ug/l	70-130	94.0			
Surrogate: 1,2-Dichloroethane-d4	"	10.0		11.3	"	70-130	113			
Matrix Spike Dup			0B07020-MSD1 MJA0019-01							
Methyl tert-butyl ether	2/4/00	10000	14800	26200	ug/l	70-130	114	25	7.94	
Surrogate: 1,2-Dichloroethane-d4	"	10.0		11.5	"	70-130	115			





Blaine Tech Services (Shell) 1680 Rogers Avenue San Jose, CA 95112	Project: Equiva Project Number: 1230 14th St. Project Manager: Leah Davis	Sampled: 1/21/00 Received: 1/24/00 Reported: 2/12/00 13:22
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**Conventional Chemistry Parameters by APHA/EPA Methods/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: 0020043		Date Prepared: 2/2/00		Extraction Method: 413.1 / 5520B Mod.						
Blank		0020043-BLK1								
Total Oil & Grease	2/3/00			ND	mg/l	5.00				
LCS		0020043-BS1								
Total Oil & Grease	2/3/00	20.0		18.6	mg/l	80.0-120	93.0			
LCS Dup		0020043-BSD1								A-01
Total Oil & Grease	2/3/00	20.0		14.5	mg/l	80.0-120	72.5	20.0	24.8	





Blaine Tech Services (Shell) 1680 Rogers Avenue San Jose, CA 95112	Project: Equiva Project Number: 1230 14th St. Project Manager: Leah Davis	Sampled: 1/21/00 Received: 1/24/00 Reported: 2/12/00 13:22
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Notes and Definitions

#	Note
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- A-01a There was not a good library match for MTBE due to 2-methyl-pentane coelution, but the results were reported due to the presence of the quantitation ion for MTBE.
- I-02 This sample was analyzed outside of the EPA recommended holding time.
- P-01 Chromatogram Pattern: Gasoline C6-C12
- S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
- 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



BLAINE

TECH SERVICES INC.

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

CONDUCT ANALYSIS TO DETECT

LAB Segueta

DHS # _____

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

EPA

RWQCB REGION _____

LIA

OTHER

CHAIN OF CUSTODY

000121-J1

CLIENT

Equiva - Karen Petryna

SITE

1230 14th Street

Oakland, CA

C = COMPOSITE ALL CONTAINERS

TPH - gas, BTEX

MTBE by 8020

MTBE by 8260

TPH - diesel

Oxygenates by 8260

1,2-DCA & EDB by 8010

TOG

SPECIAL INSTRUCTIONS

Send invoice to Equiva

Incident # 97088250 MJA 0067

Send report to Blaine Tech Services

Attn: Ann Pember

SAMPLE I.D.	S = SOIL W = H2O	CONTAINERS	
		TOTAL	

ADD'L INFORMATION	STATUS	CONDITION	LAB SAMPLE #				
A mw-1	1-21-00	940	W 5	X X			1
X vwmw-2	↓	900	↓ ↓	X X			2
X vwmw-4	↓	920	↓ ↓	X X			3
confirm all MTBE hits by 8260							5 24 11 10
If no MTBE Detected by 8020 Run MTBE by 8260 on vwmw-4							

SAMPLING COMPLETED	DATE	TIME	SAMPLING PERFORMED BY	RESULTS NEEDED NO LATER THAN	
	1-21-00	940	Patrick Flaherty	as contracted	
RELEASED BY	DATE	TIME	RECEIVED BY	DATE	TIME
Patricia Mas	1-24-00	8:45	C. Bradley	1-24	8:42
RELEASED BY	DATE	TIME	RECEIVED BY	DATE	TIME
C. Bradley			BN	1/24/00	11:10
RELEASED BY	DATE	TIME	RECEIVED BY	DATE	TIME
SHIPPED VIA	DATE SENT	TIME SENT	COOLER #		

WELL GAUGING DATA

Project # 000121-E1 Date 1-21-00 Client epu. va

Site 1230 14th St Oakland CA.

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	
mw-1	2					13.42	20.95	2.8 TOC	DO
vw mw2	2					13.26	20.69	2.8	2.8
vw-mw4	2					13.07	18.65	1.0	1.0

SHELL WELL MONITORING DATA SHEET

Project #: 000121-51	WIC#: 204-5509-3103
Sampler: P.F.	Date: 1-21-00
Well I.D.: MW-1	Well Diameter: <u>2</u> 3 4 6 8
Total Well Depth: 20.95	Depth to Water: 13.07
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> 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 ² * 0.163

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

Sampling Method: Bailer
 Extraction Port
 Other: _____

<u>1.2</u>	\times	<u>3</u>	$=$	<u>3.6</u>	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
933	62.0	7.2	1800	7200	1.25	water black
935				7200	2.5	odor
937				7200	3.75	

Did well dewater? Yes No Gallons actually evacuated: 3.75

Sampling Time: 940 Sampling Date: 1-21-00

Sample I.D.: MW-1 Laboratory: Sequoia Crosby

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

Equipment Blank I.D.: @ _____ Duplicate I.D.:

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

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
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SHELL WELL MONITORING DATA SHEET

Project #: 000121-I1	WIC #: 204-5509-3103
Sampler: P.F.	Date: 1-21-00
Well I.D.: vw mw-2	Well Diameter: <u>2</u> 3 4 6 8 ___
Total Well Depth: 20.69	Depth to Water: 13.26
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> 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 ² * 0.163

Purge Method:

Bailer
 Middleburg
 Electric Submersible
 Extraction Pump

Sampling Method:

Bailer
 Extraction Port

Other: _____

Other: _____

1.1	x	3	=	3.3	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
855	63.3	7.3	1570	7200	1.25	turbid
857	63.7	7.4	1570	7200	2.5	odor
859	63.9	7.5	1500	7200	3.5	

Did well dewater? Yes No Gallons actually evacuated: 3.5

Sampling Time: 900 Sampling Date: 1-21-00

Sample I.D.: vw mw 2 Laboratory: Sequoia Crosby

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

Equipment Blank I.D.: @ _____ Time Duplicate I.D.:

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

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

SHELL WELL MONITORING DATA SHEET

Project #: 000121-I1	WIC #: 204-5509-3103
Sampler: P.F.	Date: 1-21-00
Well I.D.: NW -mw-4	Well Diameter: <u>2</u> 3 4 6 8 _____
Total Well Depth: 18.65	Depth to Water: 13.07
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> 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 ² * 0.163

Purge Method:

Bailer
Middleburg
Electric Submersible
Extraction Pump

Sampling Method:

Bailer
Extraction Port

Other: _____

Other: _____

<u>8</u>	x	<u>3</u>	=	<u>2.4</u>	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
914	62.0	7.2	1710	7200	1.0	
916	62.3	7.3	1770	7260	1.75	
918	62.4	7.4	1780	7200	2.5	

Did well dewater? Yes No Gallons actually evacuated: 2.5

Sampling Time: 920 Sampling Date: 1-21-00

Sample I.D.: VWmw-4 Laboratory: Sequoia Crosby

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

Equipment Blank I.D.: @ _____ Time Duplicate I.D.:

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

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

Project # 000307-53 Date 3/7/00 Client Shell

Site 1230 14th St. Oakland, CA

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	pre-DO.
MW-1	2					8.11	20.71	TOC	1.4
MW-2	2					7.13	21.79		1.1
MW-3	2					7.36	19.25		5.8
MW-4	2					7.00	19.59		6.5
VW/MW2	2					7.87 7.36	20.22 19.25		5.8 3.7
VW/MW4	2					7.82	18.45		1.9
VW/AS1	1					7.35	14.28		
VW/AS3	1					4.82	14.25		

ATTACHMENT B
Chavez Survey Results

Virgil Chavez Land Surveying

312 Georgia Street, Suite 200
Vallejo, California 94590-5907
(707) 553-2476 • Fax (707) 553-8698

March 13, 2000
Project No. 1823-13

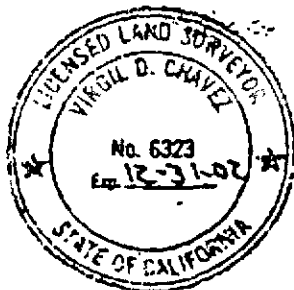
Matt Gaffney
Cambria Environmental
1144 65th Street, Suite C
Oakland, Ca. 94608

Subject: Monitoring Well Survey
Shell Service Station
1230 East 14th Street
Oakland, Ca.

Dear Matt:

This is to confirm that we have proceeded at your request to survey the monitoring wells located at the above referenced location. The survey was performed on March 8, 2000. The benchmark for the survey was City of Oakland No. 3808, a cut square in the curb, at the northerly edge of the southerly driveway in front of the Shell Station on E 14th Street. Measurements were taken at approximate north side of top of box and top of casings. The stationing data is for top of casing locations using the face of curb on East 14th Street as reference line, beginning at the east end of the curb return at the northeast corner of Union & E. 14th Streets. Benchmark Elevation = 18.29 feet, MSL.

<u>Well No.</u>	<u>Rim Elevation</u>	<u>TOC Elevation</u>	<u>Station</u>	<u>Offset</u>
MW - 1	19.14'	18.58'	0+84.26	-86.64(Lt.)
MW - 2	18.28'	17.90'	0+68.63	-17.24(Lt.)
MW - 3	18.55'	18.17'	0+26.43	-46.11(Lt.)
MW - 4	18.36	18.01'	0+03.32	-87.67(Lt.)
VW/AS-1	18.96'	18.59'	0+62.79	-76.84(Lt.)
VW/MW-2	18.71'	18.28'	0+53.81	-68.18(Lt.)
VW/AS-3	18.44'	18.14'	0+55.49	-45.70(Lt.)
VW/MW-4	18.41'	18.13'	0+55.93	-32.35(Lt.)
FC Ret -E 14th			0+00	0.00
Line of FC on E 14th (looking Easterly)			---	0.00



Sincerely,

Virgil D. Chavez

 Virgil D. Chavez, PLS 6323