

C A M B R I A

JUL 23 2001

July 18, 2001

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

#295

Re: **Second Quarter 2001 Monitoring Report**
Former Shell Service Station
1230 14th Street
Oakland, California
Incident #97088250
Cambria Project #243-0233-002



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.

SECOND QUARTER 2001 ACTIVITIES

Groundwater Monitoring: Blaine Tech Services, Inc. (Blaine) of San Jose, California gauged all site wells, measured dissolved oxygen (DO) concentrations, calculated groundwater elevations, and compiled analytical data. Cambria prepared a groundwater elevation contour map (Figure 1). Blaine's report, with supporting field notes, is included as Attachment A.

Samples from all eight monitoring wells were analyzed for total recoverable petroleum hydrocarbons (TRPH). No detections were reported (Table 1).

Site Assessment and Vapor Extraction Pilot Test Report: On June 6, 2001, Cambria submitted a *Soil-Vapor Extraction and Site Investigation Report* for at the site. The assessment was performed to further define the lateral extent of residual hydrocarbons in soil and groundwater. The pilot test was conducted to evaluate the effectiveness of vapor extraction to remediate the residual hydrocarbons.

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

Results of the pilot test were inconclusive. However, based on the assessment results, Cambria recommended further delineation of the plume downgradient of the site. Provided the hydrocarbon attenuation trend can be confirmed by the additional assessment, we recommended subsequent completion of a risk-based corrective action (RBCA) evaluation to assess the potential

health risk from the hydrocarbons to onsite and offsite occupants. RBCA results will be used to determine whether remediation is necessary at the site or if the site can be closed.

ANTICIPATED THIRD QUARTER 2001 ACTIVITIES

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



TRPH Analysis Termination: Table 1 presents a summary of TRPH results for the site since March 1996. As indicated, TRPH is typically not detected and is otherwise detected only at very low concentrations. Therefore, Cambria will discontinue these analyses effective with the second quarter 2001 sampling event.

OK-
BC

CLOSING

We appreciate the opportunity to work with you on this project. Please call Stephan Bork at (510) 420-3344 if you have any questions or comments.

Sincerely,
Cambria Environmental Technology, Inc

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

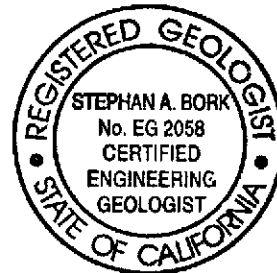
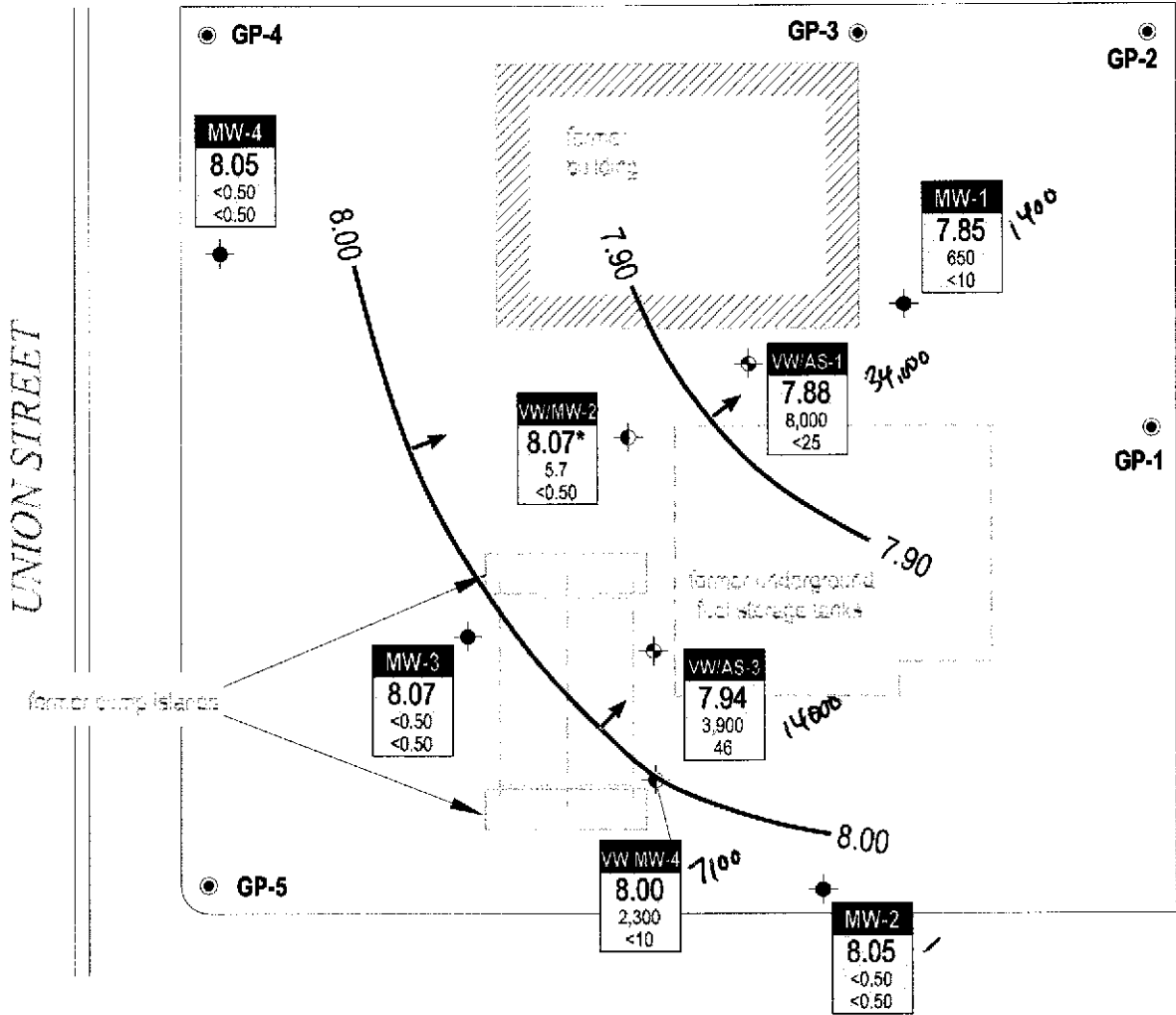


Figure: 1 - Groundwater Elevation Contour Map

Table: 1 - TRPH Concentrations in Groundwater

Attachment: A - Blaine Groundwater Monitoring Report and Field Notes

cc: Karen Petryna, Equiva Services LLC, P.O. Box 7869, Burbank, California 91510-7869
Tom Saberi, 1045 Airport Boulevard, Suite 12, South San Francisco, CA 94080
Matthew Dudley, Sedgwick, Detert, Moran, & Arnold, 1 Embarcadero Center,
16th Floor, San Francisco, California 94111-3628



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
 - GP-1** ● Soil boring location (12/11/00)
 - * Data anomalous, not used for contouring
 - 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 8260 |

14TH STREET

TPHg (7100)



FIGURE 1

G:\OAKLAND\1230-14TH\FIGURES\GCM01-MP.DWG

Former Shell Service Station

1230 14th Street
Oakland, California
Incident #97088250



C A M B R I A

Groundwater Elevation Contour Map

April 27, 2001

TRPH Concentrations in Groundwater, Former Shell Service Station, 1230 14th Street, Oakland, CA

Well ID	Date	TRPH mg (ug/L)
MW-1	3/25/1996	<5.0
MW-1	6/21/1996	<5.0
MW-1	9/26/1996	3.8
MW-1	12/19/1996	9.0
MW-1	3/25/1997	<5.0
MW-1	2/19/1998	<5.0
MW-1	12/27/1999	<5.00
MW-1	1/21/2000	<5.00
MW-1	4/17/2000	<5.00
MW-1	10/17/2000	<5.00
MW-1	5/1/2001	<5.00
MW-2	6/26/1997	<5.0
MW-2	9/26/1997	<5.0
MW-2	12/5/1997	<5.0
MW-2	2/19/1998	<5.0
MW-2	6/8/1998	<5.0
MW-2	12/28/1998	<1.00
MW-2	6/30/1999	<5.00
MW-2	12/27/1999	<5.00
MW-2	4/17/2000	<5.00
MW-2	10/17/2000	<5.00
MW-2	5/1/2001	<5.00
MW-3	6/26/1997	<5.0
MW-3	9/26/1997	<5.0
MW-3	12/5/1997	<5.0
MW-3	2/19/1998	<5.0
MW-3	6/8/1998	<5.0
MW-3	12/28/1998	<1.00
MW-3	6/30/1999	<5.00
MW-3	12/27/1999	<5.00
MW-3	4/17/2000	<5.00
MW-3	10/17/2000	<5.00
MW-3	5/1/2001	<5.00
MW-4	6/26/1997	<5.0
MW-4	9/26/1997	<5.0
MW-4	12/5/1997	<5.0
MW-4	2/19/1998	<5.0
MW-4	6/8/1998	6.7
MW-4	12/28/1998	<1.00
MW-4	6/30/1999	<5.00

aka TOG.

TRPH Concentrations in Groundwater, Former Shell Service Station, 1230 14th Street, Oakland, CA

Well ID	Date	TRPH (ug/L)
MW-4	12/27/1999	<5.00
MW-4	4/17/2000	<5.00
MW-4	10/17/2000	<5.00
MW-4	5/1/2001	<5.00
VW/MW-2	2/19/1998	<5.0
VW/MW-2	12/27/1999	<5.00
VW/MW-2	1/21/2000	<5.00
VW/MW-2	4/18/2000	<5.00
VW/MW-2	10/17/2000	<5.00
VW/MW-2	5/1/2001	<5.00
VW/MW-4 (D)	02/19/98	<5.0
VW/MW-4	12/27/1999	<5.00
VW/MW-4	1/21/2000	<5.00
VW/MW-4	4/18/2000	<5.00
VW/MW-4	10/17/2000	<5.00
VW/MW-4	5/1/2001	<5.00
VW/AS-1	12/27/1999	<5.00
VW/AS-1	4/18/2000	<5.00
VW/AS-1	10/17/2000	<5.00
VW/AS-1	5/1/2001	<5.00
VW/AS-3	12/27/1999	<5.00
VW/AS-3	4/18/2000	<5.00
VW/AS-3	10/17/2000	<5.00
VW/AS-3	5/1/2001	<5.00

Abbreviations:

TRPH = Total recoverable petroleum hydrocarbons.

ug/L = parts per billion

<n = Below detection limit

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

June 19, 2001

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

Second Quarter 2001 Groundwater Monitoring at
Former Shell Service Station
1230 14th Street
Oakland, CA

Monitoring performed on April 27, 2001

Groundwater Monitoring Report 010427-C-3

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

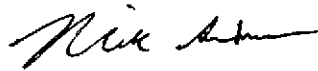
Basic field information is presented alongside analytical values excerpted from the laboratory report in the cumulative table of **WELL CONCENTRATIONS**. The full analytical report for the most recent samples and the field data sheets are attached to this report.

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

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

Please call if you have any questions.

Yours truly,



Nick Sudano
Project Coordinator

NS/jt

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
Former Shell 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-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	8.11	10.47	0.4
MW-1	04/17/2000	NA	NA	NA	NA	NA	NA	NA	18.58	9.78	8.80	3.0/3.4
MW-1	04/18/2000	18,300	8,060	543	528	872	<50.0	NA	18.58	NA	NA	NA
MW-1	09/21/2000	NA	NA	NA	NA	NA	NA	NA	18.58	13.11	5.47	5.2
MW-1	10/17/2000	15,800	6,720	435	587	887	351	<66.7	18.58	12.61	5.97	1.2/0.8
MW-1	01/09/2001	NA	NA	NA	NA	NA	NA	NA	18.58	12.94	5.64	0.3
MW-1	04/27/2001	1,400	650	28	58	48	NA	<10	18.58	10.73	7.85	1.8/2.1
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

WELL CONCENTRATIONS
Former Shell 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	09/26/1996	<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
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-2	04/17/2000	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	NA	17.90	8.35	9.55	1.8/1.8
MW-2	09/21/2000	NA	NA	NA	NA	NA	NA	NA	17.90	11.76	6.14	2.1
MW-2	10/17/2000	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	NA	17.90	11.80	6.10	0.9/0.6
MW-2	01/09/2001	NA	NA	NA	NA	NA	NA	NA	17.90	12.14	5.76	0.7
MW-2	04/27/2001	<50	<0.50	<0.50	<0.50	<0.50	NA	<0.50	17.90	9.85	8.05	1.1/0.9
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

WELL CONCENTRATIONS
Former Shell Service Station
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Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	DO Reading (ppm)
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
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-3	04/17/2000	<50.0	<0.500	<0.500	<0.500	<0.500	19.3	NA	18.17	8.39	9.78	6.5/5.1
MW-3	09/21/2000	NA	NA	NA	NA	NA	NA	NA	18.17	12.01	6.16	3.0
MW-3	10/17/2000	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	NA	18.17	12.10	6.07	2.0/1.0
MW-3	01/09/2001	NA	NA	NA	NA	NA	NA	NA	18.17	12.43	5.74	1.9
MW-3	04/27/2001	<50	<0.50	<0.50	<0.50	<0.50	NA	<0.50	18.17	10.10	8.07	2.3/2.4
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

WELL CONCENTRATIONS
Former Shell 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-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
MW-4	04/17/2000	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	NA	18.01	8.57	9.44	5.1/5.1
MW-4	09/21/2000	NA	NA	NA	NA	NA	NA	NA	18.01	12.05	5.96	3.0
MW-4	10/17/2000	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	NA	18.01	11.96	6.05	5.5/1.2
MW-4	01/09/2001	NA	NA	NA	NA	NA	NA	NA	18.01	12.33	5.68	2.1
MW-4	04/27/2001	<50	<0.50	<0.50	<0.50	<0.50	NA	<0.50	18.01	9.96	8.05	5.3/3.8

VW/MW-2	03/25/1996	13,000	900	920	180	1,500	<250	NA	18.30	9.04	9.26	NA
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

WELL CONCENTRATIONS
Former Shell 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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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	2.8
VW/MW-2	03/07/2000	NA	NA	NA	NA	NA	NA	NA	18.28	7.87	10.41	3.7
VW/MW-2	04/17/2000	NA	NA	NA	NA	NA	NA	NA	18.28	9.65	8.63	3.7/4.1
VW/MW-2	04/18/2000	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	NA	18.28	NA	NA	NA
VW/MW-2	09/21/2000	NA	NA	NA	NA	NA	NA	NA	18.28	12.75	5.53	6.2
VW/MW-2	10/17/2000	4,070	763	589	214	501	<50.0	NA	18.28	12.21	6.07	0.8/0.7
VW/MW-2	01/09/2001	NA	NA	NA	NA	NA	NA	NA	18.28	12.51	5.77	0.7
VW/MW-2	04/27/2001	80	5.7	<0.50	2.7	4.9	NA	<0.50	18.28	10.21	8.07	2.3/2.8

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
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

WELL CONCENTRATIONS
Former Shell 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/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	01/21/200	13,900	1,560	568	227	1,990	<500	21.0a	18.14	13.07	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
VW/MW-4	04/17/2000	NA	NA	NA	NA	NA	NA	NA	18.13	9.18	8.95	1.4/1.9
VW/MW-4	04/18/2000	757	103	8.59	30.8	84.2	<25.0	NA	18.13	NA	NA	NA
VW/MW-4	09/21/2000	NA	NA	NA	NA	NA	NA	NA	18.13	12.18	5.95	5.0
VW/MW-4	10/17/2000	8,360	2,060	391	468	1,170	147	NA	18.13	12.03	6.10	0.7/0.8
VW/MW-4	01/09/2001	NA	NA	NA	NA	NA	NA	NA	18.13	12.42	5.71	0.9
VW/MW-4	04/27/2001	7,100	2,300	50	460	250	NA	<10	18.13	10.13	8.00	1.0/1.4
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
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	03/28/1999	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

WELL CONCENTRATIONS
Former Shell 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)
VWIAS-1	09/30/1999	NA	NA	NA	NA	NA	NA	NA	18.60	11.94	6.66	1.9
VWIAS-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
VWIAS-1	03/07/2000	NA	NA	NA	NA	NA	NA	NA	18.59	7.35	11.24	NA
VWIAS-1	04/17/2000	NA	NA	NA	NA	NA	NA	NA	18.59	9.08	9.51	1.9/2.0
VWIAS-1	04/18/2000	20,800	6,550	1,220	2,270	1,720	<250	NA	18.59	NA	NA	NA
VWIAS-1	09/21/2000	NA	NA	NA	NA	NA	NA	NA	18.59	11.98	6.61	2.1
VWIAS-1	10/17/2000	38,400	7,240	5,980	1,960	5,730	534	72.4	18.59	12.62	5.97	2.5/1.0
VWIAS-1	01/09/2001	NA	NA	NA	NA	NA	NA	NA	18.59	13.03	5.56	1.9
VWIAS-1	04/27/2001	34,000	8,000	2,100	2,500	2,000	NA	<25	18.59	10.71	7.88	2.9/2.1
VWIAS-3	03/25/1996	NA	NA	NA	NA	NA	NA	NA	18.17	8.50	9.67	NA
VWIAS-3	06/21/1996	NA	NA	NA	NA	NA	NA	NA	18.17	10.42	7.75	NA
VWIAS-3	09/26/1996	NA	NA	NA	NA	NA	NA	NA	18.17	12.49	5.68	NA
VWIAS-3	12/19/1996	NA	NA	NA	NA	NA	NA	NA	18.17	12.28	5.89	NA
VWIAS-3	03/25/1997	NA	NA	NA	NA	NA	NA	NA	18.17	9.61	8.56	NA
VWIAS-3	06/26/1997	NA	NA	NA	NA	NA	NA	NA	18.17	11.80	6.37	NA
VWIAS-3	09/26/1997	NA	NA	NA	NA	NA	NA	NA	18.17	12.89	5.28	NA
VWIAS-3	12/05/1997	NA	NA	NA	NA	NA	NA	NA	18.17	11.38	6.79	1.8
VWIAS-3	02/19/1998	NA	NA	NA	NA	NA	NA	NA	18.17	6.24	11.93	1.3
VWIAS-3	06/08/1998	NA	NA	NA	NA	NA	NA	NA	18.17	6.25	11.92	1.2
VWIAS-3	08/25/1998	NA	NA	NA	NA	NA	NA	NA	18.17	11.43	6.74	1.3
VWIAS-3	12/28/1998	NA	NA	NA	NA	NA	NA	NA	18.17	11.63	6.54	1.7
VWIAS-3	03/26/1999	NA	NA	NA	NA	NA	NA	NA	18.17	8.92	9.25	1.5
VWIAS-3	06/30/1999	NA	NA	NA	NA	NA	NA	NA	18.17	10.71	7.46	2.5
VWIAS-3	09/30/1999	NA	NA	NA	NA	NA	NA	NA	18.17	11.78	6.39	1.5
VWIAS-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
VWIAS-3	03/07/2000	NA	NA	NA	NA	NA	NA	NA	18.14	4.82	13.32	NA
VWIAS-3	04/17/2000	NA	NA	NA	NA	NA	NA	NA	18.14	8.69	9.45	2.0/2.4

WELL CONCENTRATIONS
Former Shell 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-3	04/18/2000	3,110	871	<5.00	141	56.8	78.2	NA	18.14	NA	NA	NA
VW/AS-3	09/21/2000	NA	NA	NA	NA	NA	NA	NA	18.14	11.65	6.49	2.5
VW/AS-3	10/17/2000	7,730	2,700	<50.0	542	344	<250	42.1	18.14	12.13	6.01	1.6/1.0
VW/AS-3	01/09/2001	NA	NA	NA	NA	NA	NA	NA	18.14	12.51	5.63	2.2
VW/AS-3	04/27/2001	14,000	3,900	62	690	560	NA	46	18.14	10.20	7.94	2.8/1.6

Abbreviations:

TPPH = Total petroleum hydrocarbons as gasoline by modified EPA Method 8260B; prior to April 27, 2001 analyzed by EPA Method 8015

BTEX = benzene, toluene, ethylbenzene, xylenes by EPA Method 8260B; prior to April 27, 2001, analyzed 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

ppm = parts per million

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.



Report Number : 20113

Date : 6/19/2001

Nick Sudano
Blaine Tech Services
1680 Rogers Avenue
San Jose, CA 95112-1105

Subject : 8 Water Samples
Project Name : 1230 14th Street, Oakland
Project Number : 010427-C2
P.O. Number : Incident# 97088250

Dear Mr. Sudano,

Chemical analysis of the samples referenced above has been completed. Summaries of the data are contained on the following pages. Sample(s) were received under documented chain-of-custody. US EPA protocols for sample storage and preservation were followed.

Kiff Analytical is certified by the State of California (# 2236). If you have any questions regarding procedures or results, please call me at 530-297-4800.

Sincerely,

A handwritten signature in black ink that reads "Joel Kiff". The signature is written in a cursive style with a large initial "J".

Joel Kiff



Report Number : 20113

Date : 6/19/2001

Project Name : 1230 14th Street, Oakland

Project Number : 010427-C2

Sample : MW-1

Matrix : Water

Lab Number : 20113-01

Sample Date :4/27/2001

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	650	10	ug/L	EPA 8260B	5/10/2001
Toluene	28	10	ug/L	EPA 8260B	5/10/2001
Ethylbenzene	58	10	ug/L	EPA 8260B	5/10/2001
Total Xylenes	48	10	ug/L	EPA 8260B	5/10/2001
Methyl-t-butyl ether (MTBE)	< 10	10	ug/L	EPA 8260B	5/10/2001
TPH as Gasoline	1400	1000	ug/L	EPA 8260B	5/10/2001
Toluene - d8 (Surr)	93.4		% Recovery	EPA 8260B	5/10/2001
4-Bromofluorobenzene (Surr)	96.0		% Recovery	EPA 8260B	5/10/2001

Sample : MW-2

Matrix : Water

Lab Number : 20113-02

Sample Date :4/27/2001

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	5/10/2001
Toluene	< 0.50	0.50	ug/L	EPA 8260B	5/10/2001
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	5/10/2001
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	5/10/2001
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	5/10/2001
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	5/10/2001
Toluene - d8 (Surr)	99.8		% Recovery	EPA 8260B	5/10/2001
4-Bromofluorobenzene (Surr)	95.8		% Recovery	EPA 8260B	5/10/2001

Approved By:  Joel Kiff



Report Number : 20113

Date : 6/19/2001

Project Name : 1230 14th Street, Oakland

Project Number : 010427-C2

Sample : MW-3

Matrix : Water

Lab Number : 20113-03

Sample Date :4/27/2001

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	5/10/2001
Toluene	< 0.50	0.50	ug/L	EPA 8260B	5/10/2001
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	5/10/2001
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	5/10/2001
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	5/10/2001
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	5/10/2001
Toluene - d8 (Surr)	99.4		% Recovery	EPA 8260B	5/10/2001
4-Bromofluorobenzene (Surr)	95.9		% Recovery	EPA 8260B	5/10/2001

Sample : MW-4

Matrix : Water

Lab Number : 20113-04

Sample Date :4/27/2001

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	5/10/2001
Toluene	< 0.50	0.50	ug/L	EPA 8260B	5/10/2001
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	5/10/2001
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	5/10/2001
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	5/10/2001
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	5/10/2001
Toluene - d8 (Surr)	102		% Recovery	EPA 8260B	5/10/2001
4-Bromofluorobenzene (Surr)	95.9		% Recovery	EPA 8260B	5/10/2001

Approved By:  Joel Kiff



Report Number : 20113

Date : 6/19/2001

Project Name : 1230 14th Street, Oakland

Project Number : 010427-C2

Sample : VW/MW-2

Matrix : Water

Lab Number : 20113-05

Sample Date :4/27/2001

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	5.7	0.50	ug/L	EPA 8260B	5/10/2001
Toluene	< 0.50	0.50	ug/L	EPA 8260B	5/10/2001
Ethylbenzene	2.7	0.50	ug/L	EPA 8260B	5/10/2001
Total Xylenes	4.9	0.50	ug/L	EPA 8260B	5/10/2001
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	5/10/2001
TPH as Gasoline	80	50	ug/L	EPA 8260B	5/10/2001
Toluene - d8 (Surr)	98.6		% Recovery	EPA 8260B	5/10/2001
4-Bromofluorobenzene (Surr)	97.1		% Recovery	EPA 8260B	5/10/2001

Sample : VW/MW-4

Matrix : Water

Lab Number : 20113-06

Sample Date :4/27/2001

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	2300	10	ug/L	EPA 8260B	5/10/2001
Toluene	50	10	ug/L	EPA 8260B	5/10/2001
Ethylbenzene	460	10	ug/L	EPA 8260B	5/10/2001
Total Xylenes	250	10	ug/L	EPA 8260B	5/10/2001
Methyl-t-butyl ether (MTBE)	< 10	10	ug/L	EPA 8260B	5/10/2001
TPH as Gasoline	7100	1000	ug/L	EPA 8260B	5/10/2001
Toluene - d8 (Surr)	97.7		% Recovery	EPA 8260B	5/10/2001
4-Bromofluorobenzene (Surr)	97.8		% Recovery	EPA 8260B	5/10/2001

Approved By:  Joel Kiff



Report Number : 20113

Date : 6/19/2001

Project Name : 1230 14th Street, Oakland

Project Number : 010427-C2

Sample : VW/AS-1

Matrix : Water

Lab Number : 20113-07

Sample Date :4/27/2001

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	8000	25	ug/L	EPA 8260B	5/10/2001
Toluene	2100	25	ug/L	EPA 8260B	5/10/2001
Ethylbenzene	2500	25	ug/L	EPA 8260B	5/10/2001
Total Xylenes	2000	25	ug/L	EPA 8260B	5/10/2001
Methyl-t-butyl ether (MTBE)	< 25	25	ug/L	EPA 8260B	5/10/2001
TPH as Gasoline	34000	5000	ug/L	EPA 8260B	5/10/2001
Toluene - d8 (Surr)	99.1		% Recovery	EPA 8260B	5/10/2001
4-Bromofluorobenzene (Surr)	104		% Recovery	EPA 8260B	5/10/2001

Sample : VW/AS-3

Matrix : Water

Lab Number : 20113-08

Sample Date :4/27/2001

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	3900	20	ug/L	EPA 8260B	5/10/2001
Toluene	62	20	ug/L	EPA 8260B	5/10/2001
Ethylbenzene	690	20	ug/L	EPA 8260B	5/10/2001
Total Xylenes	560	20	ug/L	EPA 8260B	5/10/2001
Methyl-t-butyl ether (MTBE)	46	20	ug/L	EPA 8260B	5/10/2001
TPH as Gasoline	14000	2000	ug/L	EPA 8260B	5/10/2001
Toluene - d8 (Surr)	100		% Recovery	EPA 8260B	5/10/2001
4-Bromofluorobenzene (Surr)	106		% Recovery	EPA 8260B	5/10/2001

Approved By:  Joel Kiff

Report Number : 20113

Date : 6/19/2001

QC Report : Laboratory Control Sample (LCS)

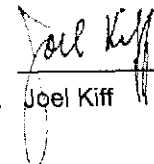
Project Name : **1230 14th Street, Oakland**

Project Number : **010427-C2**

Parameter	Spike Level	Units	Analysis Method	Date Analyzed	LCS Percent Recov.	LCS Percent Recov. Limit
Benzene	20.0	ug/L	EPA 8260B	5/10/2001	97.0	70-130
Toluene	20.0	ug/L	EPA 8260B	5/10/2001	95.0	70-130
Tert-Butanol	100	ug/L	EPA 8260B	5/10/2001	103	70-130
Methyl-t-Butyl Ether	20.0	ug/L	EPA 8260B	5/10/2001	96.2	70-130

KIFF ANALYTICAL, LLC

720 Olive Drive, Suite D Davis, CA 95616 530-297-4800

Approved By: 
Joel Kiff



**Sequoia
Analytical**

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

May 03 , 2001

Joel Kiff
Kiff Analytical
720 Olive Drive, Suite D
Davis, CA 95616
RE: Equiva 1230 14th St., Oakland, CA / S105025

Enclosed are the results of analyses for samples received by the laboratory on 05/01/01. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Lito Diaz
Laboratory Director

CA ELAP Certificate Number 1624





Sequoia Analytical

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

Kiff Analytical
 720 Olive Drive, Suite D
 Davis CA, 95616

Project: Equiva 1230 14th St., Oakland, CA
 Project Number: 010427-C2
 Project Manager: Joel Kiff

Reported:
 05/03/01 16:44

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control Sequoia Analytical - Sacramento

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1050051 - EPA 3510B.										
Prepared & Analyzed: 05/03/01										
Blank (1050051-BLK1)										
TRPH	ND	5.00	mg/l							
Prepared & Analyzed: 05/03/01										
LCS (1050051-BS1)										
TRPH	89.0	5.00	mg/l	100		89.0	70-130			
Prepared & Analyzed: 05/03/01										
LCS Dup (1050051-BSD1)										
TRPH	91.2	5.00	mg/l	100		91.2	70-130	2.44	30	

Sequoia Analytical - Sacramento

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.





Kiff Analytical
720 Olive Drive, Suite D
Davis CA, 95616

Project: Equiva 1230 14th St., Oakland, CA
Project Number: 010427-C2
Project Manager: Joel Kiff

Reported:
05/03/01 16:44

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



20113

KIFF ANALYTICAL SUBCONTRACT FORM

Subcontract Lab:

Sequoia

Please mail results to :

Please fax to :

**819 Striker Ave, Suite 8
Sacramento, CA 95834**

JOEL KIFF
KIFF ANALYTICAL
720 OLIVE DRIVE, SUITE D
DAVIS, CA 95616

530-297-4803

916-921-9600

**PROJECT NAME : 1230 14th Street, Oakland
PROJECT NUMBER: 010427-C2**

Account No. :

Sample	Matrx	Sampled	Tests	Due	Container
MW-1	WA	04/27/2001	O&G GRAV + SILICA GEL (5520B,F)	510502501 05/08/2001	} OK per Ron. Please reference attached COC for billing. -mec 050101 1119
MW-2	WA	04/27/2001	O&G GRAV + SILICA GEL (5520B,F)	-02 05/08/2001	
MW-3	WA	04/27/2001	O&G GRAV + SILICA GEL (5520B,F)	-03 05/08/2001	
MW-4	WA	04/27/2001	O&G GRAV + SILICA GEL (5520B,F)	-04 05/08/2001	
VW/MW-2	WA	04/27/2001	O&G GRAV + SILICA GEL (5520B,F)	-05 05/08/2001	
VW/MW-4	WA	04/27/2001	O&G GRAV + SILICA GEL (5520B,F)	-06 05/08/2001	
VW/AS-1	WA	04/27/2001	O&G GRAV + SILICA GEL (5520B,F)	-07 05/08/2001	
VW/AS-3	WA	04/27/2001	O&G GRAV + SILICA GEL (5520B,F)	-08 05/08/2001	

Rare 18°C

Relinquished by: Osama Alkhalaf

Date/Time: 05/01/1650

Received by: Monica Green 5/16/15

Relinquished by: _____

Date/Time: _____

Received by: _____

Relinquished by: _____

Date/Time: _____

Received by: _____

LAB: Kiff

EQUIVA Services LLC Chain Of Custody Record 2011.3

Lab Identification (if necessary):

Address:

City, State, Zip:

Equiva Project Manager to be invoiced:

Karen Petryna

SCIENCE & ENGINEERING
 TECHNICAL SERVICES
 CHEM. INDUSTRIES

INCIDENT NUMBER (S&E ONLY)

9 7 0 8 8 2 5 0

SAP or CMAA NUMBER (S&E ONLY)

PAGE: 1 of 1

CONSULTANT COMPANY:
Blaine Tech Services
 ADDRESS:
1880 Rogers Avenue
 CITY:
San Jose, CA 95112
 TELEPHONE:
408-573-0666 FAX:
408-673-7771 EMAIL:
nsudano@blainetech.com

SITE ADDRESS (Street and City):
1230 14th Street, Oakland

PROJECT CONTACT (Report to):
Nick Sudano CONSULTANT PROJECT NO.:
BTS# 010427-02

SAMPLE NAME(S) (Print):
Hook Castro LAB USE ONLY

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

REQUESTED ANALYSIS

LA - RWQCS REPORT FORMAT LIST AGENCY:
 GC/MS MTBE CONFIRMATION: HIGHEST _____ HIGHEST per BORING ALL
 SPECIAL INSTRUCTIONS OR NOTES: TEMPERATURE ON RECEIPT

TPH - Gas, Purgeable (8015m)	MTBE (8021B)	MTBE (8021B)	MTBE (8200B)	TPH - Diesel, Extractable (8015m)	Drygasol (8) by 8200	Ethanol, Methylol (8015B)	1,2-DCA & ED8 by 8010	MTBE (8200B) Confirmation, See Note	TOB
X	X	X						X	X
X	X	X						X	X
X	X	X						X	X
X	X	X						X	X
X	X	X						X	X
X	X	X						X	X
X	X	X						X	X
X	X	X						X	X

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

LAB USE ONLY	Field Sample Identification	SAMPLING		MATRIX	NO. OF CONT.	TPH - Gas, Purgeable (8015m)	MTBE (8021B)	MTBE (8021B)	MTBE (8200B)	TPH - Diesel, Extractable (8015m)	Drygasol (8) by 8200	Ethanol, Methylol (8015B)	1,2-DCA & ED8 by 8010	MTBE (8200B) Confirmation, See Note	TOB	
		DATE	TIME													
X	MW-1	4/27	1152	SW	5	X	X	X							X	X
X	MW-2		920		5	X	X	X							X	X
X	MW-3		949		5	X	X	X							X	X
X	MW-4		1011		5	X	X	X							X	X
X	VW/MW-2		1030		5	X	X	X							X	X
X	VW/MW-4		1129		5	X	X	X							X	X
X	VW/AS-1		1217		5	X	X	X							X	X
X	VW/AS-3		1055		5	X	X	X							X	X

01
02
03
04
05
06
07
08

Retrieved by: (Signature) <i>Hook Castro</i>	Received by: (Signature) _____	Date: _____	Time: _____
Retrieved by: (Signature) _____	Received by: (Signature) _____	Date: _____	Time: _____
Retrieved by: (Signature) _____	Received by: (Signature) <i>Blair Brown</i>	Date: <i>04/30/11</i>	Time: <i>1250</i>

CMAA Graphic (714) 888-8702

EQUIVA WELL MONITORING DATA SHEET

BTS #: 010427-c2	Site: 1230 14 th St.
Sampler: Hank	Date: 4-27-01
Well I.D.: MW-1	Well Diameter: (2) 3 4 6 8
Total Well Depth: 20.87	Depth to Water: 10.73
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: _____

$$1.6 \text{ (Gals.)} \times 3 = 4.8 \text{ Gals.}$$
 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	radius ² * 0.163

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
1140	62.0	6.6	964	7200	1.6	
1143	62.1	6.6	978	7200	3.2	
1146	62.0	6.7	968	7200	5	

Did well dewater? Yes No Gallons actually evacuated: 5

Sampling Time: 1152 Sampling Date: 4-27-01

Sample I.D.: MW-1 Laboratory: Sequoia Columbia Other KIFP

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

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: 1.8 mg/L Post-purge: 2.1 mg/L

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

EQUIVA WELL MONITORING DATA SHEET

BTS #: 010427-c2	Site: 1230 14 th St.
Sampler: Hank	Date: 4-27-01
Well I.D.: MW-2	Well Diameter: (2) 3 4 6 8
Total Well Depth: 21.54	Depth to Water: 9.85
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: _____

1.8 (Gals.) X	3	= 5.4 Gals.
I 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	radius ² * 0.163

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
903	62.4	6.2	917	>200	1.8	
909	63.5	6.3	894	>200	3.6	
914	63.9	6.3	878	>200	5.5	

Did well dewater? Yes No Gallons actually evacuated: 5.5

Sampling Time: 920 Sampling Date: 4-27-01

Sample I.D.: MW-2 Laboratory: Sequoia Columbia Other KIPP

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

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) 1.1 mg/L	(Post-purge) .9 mg/L
O.R.P. (if req'd):	Pre-purge: mV	Post-purge: mV

EQUIVA WELL MONITORING DATA SHEET

BTS #: 010427-c2	Site: 1230 14 th St.
Sampler: Hank	Date: 4-27-01
Well I.D.: MW-3	Well Diameter: <u>2</u> 3 4 6 8
Total Well Depth: 19.34	Depth to Water: 10.10
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): <u>YST</u> HACH

Purge Method: Bailer Waterra Sampling Method: Bailer
Disposable Bailer Peristaltic Disposable Bailer
 Middleburg Extraction Pump Extraction Port
 Electric Submersible Other _____ Dedicated Tubing
 Other: _____

$1.4 \text{ (Gals.)} \times 3 = 4.2 \text{ Gals.}$ 1 Case Volume Specified Volumes Calculated Volume	<table border="1" style="width: 100%; border-collapse: collapse; font-size: small;"> <thead> <tr> <th>Well Diameter</th> <th>Multiplier</th> <th>Well Diameter</th> <th>Multiplier</th> </tr> </thead> <tbody> <tr> <td>1"</td> <td>0.04</td> <td>4"</td> <td>0.65</td> </tr> <tr> <td>2"</td> <td>0.16</td> <td>6"</td> <td>1.47</td> </tr> <tr> <td>3"</td> <td>0.37</td> <td>Other</td> <td>radius² * 0.163</td> </tr> </tbody> </table>	Well Diameter	Multiplier	Well Diameter	Multiplier	1"	0.04	4"	0.65	2"	0.16	6"	1.47	3"	0.37	Other	radius ² * 0.163
Well Diameter	Multiplier	Well Diameter	Multiplier														
1"	0.04	4"	0.65														
2"	0.16	6"	1.47														
3"	0.37	Other	radius ² * 0.163														

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
9:37	62.7	6.1	1077	>200	1.5	Water turbid
9:41	62.9	6.3	1053	>200	3	↓
9:44	62.8	6.4	1019	>200	4.5	

Did well dewater? Yes No Gallons actually evacuated: 4.5

Sampling Time: 9:49 Sampling Date: 4-27-01

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

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

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: 2.3 mg/L	Post-purge: 2.4 mg/L
O.R.P. (if req'd):	Pre-purge: mV	Post-purge: mV

EQUIVA WELL MONITORING DATA SHEET

BTS #: 010427-c2	Site: 1230 14 th St.
Sampler: Hank	Date: 4-27-01
Well I.D.: MW-4	Well Diameter: <u>2</u> 3 4 6 8
Total Well Depth: 19.80	Depth to Water: 9.96
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): <u>YSI</u> HACH

Purge Method:

Bailer
 Disposable Bailer
 Middleburg
 Electric Submersible

Waterra
 Peristaltic
 Extraction Pump
 Other _____

Sampling Method:

Bailer
 Disposable Bailer
 Extraction Port
 Dedicated Tubing

Other: _____

1.5 (Gals.) X	3	= 4.5 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	radius ² * 0.165

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
10:00	64.3	6.5	265	> 200	1.5	
10:03	64.8	6.8	295	> 200	3	
10:06	65.2	6.6	302	> 200	4.5	

Did well dewater? Yes No

Gallons actually evacuated: 4.5

Sampling Time: 1011

Sampling Date: 4-27-01

Sample I.D.: MW-4

Laboratory: Sequoia Columbia Other Kiff

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

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:	5.3 mg/L	Post-purge:	3.8 mg/L
------------------	------------	----------	-------------	----------

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

EQUIVA WELL MONITORING DATA SHEET

BTS #: 010427-02	Site: 1230 14 th St.
Sampler: Hank	Date: 4-27-01
Well I.D.: VW/MW-2	Well Diameter: <u>2</u> 3 4 6 8
Total Well Depth: 20.20	Depth to Water: 10.21
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): <u>YSI</u> HACH

Purge Method:

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

Sampling Method:

Bailer
 Disposable Bailer
 Extraction Port
 Dedicated Tubing
 Other: _____

$$\frac{1.5 \text{ (Gals.)} \times 3}{\text{I Case Volume Specified Volumes}} = \frac{4.5 \text{ Gals.}}{\text{Calculated Volume}}$$

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

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
1017	67.4	6.9	1173	>200	1.5	
1020	67.7	7.0	1165	>200	3	
1024	68.1	7.0	1167	>200	4.5	

Did well dewater? Yes No Gallons actually evacuated: 4.5

Sampling Time: 1030 Sampling Date: 4-27-01

Sample I.D.: VW/MW-2 Laboratory: Sequoia Columbia Other KIPP

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

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: 2.3 mg/L Post-purge: 172.8 mg/L

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

EQUIVA WELL MONITORING DATA SHEET

BTS #: 010427-c2	Site: 1230 14th St.
Sampler: Hank	Date: 4-27-01
Well I.D.: VW/AS-3	Well Diameter: 2 3 4 6 8 <u>1</u>
Total Well Depth: 19.51	Depth to Water: 10.20
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): <u>YSI</u> HACH

Purge Method:

- Pin Bailer
- ~~Disposable Bailer~~
- Middleburg
- Electric Submersible

- Waterra
- Peristaltic
- Extraction Pump
- Other _____

Sampling Method:

- Pin Bailer
- ~~Disposable Bailer~~
- Extraction Port
- Dedicated Tubing

Other: _____

8.4 (Gals.) X 3 = 1.2 Gals.
 Case Volume Specified Volumes Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.63
2"	0.16	6"	1.47
3"	0.37	Other	radius ² * 0.163

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
1040	64.7	6.8	1067	>200	.5	odor
1043	64.6	6.8	1074	>200	1.0	↓
1047	64.1	6.9	1079	162	1.5	

Did well dewater? Yes No Gallons actually evacuated: 1.5

Sampling Time: 1055 Sampling Date: 4-27-01

Sample I.D.: VW/AS-3 Laboratory: Sequoia Columbia Other KIPP

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

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: 2.8 mg/L Post-purge: 1.6 mg/L

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