RO415

CAMBRIA

JUL 08 2002

July 1, 2002

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

Re: **First Quarter 2002 Monitoring Report**
Former Shell Service Station
4411 Foothill Boulevard
Oakland, California
Incident #98995746
Cambria Project #244-0897-002

S-5 not sampled

Dear Mr. Chan:

On behalf of Shell Oil Products US, Cambria Environmental Technology, Inc. (Cambria) is submitting this groundwater monitoring report in accordance with the reporting requirements of 23 CCR 2652d.

FIRST QUARTER 2002 ACTIVITIES

Groundwater Monitoring: Blaine Tech Services, Inc. (Blaine) of San Jose, California gauged and sampled all onsite wells, calculated groundwater elevations, and compiled the analytical data. Cambria compiled groundwater elevation and analytical data for the adjacent Chevron Service Station and 76 Service Station (BP Oil Company [BP] site #11109), and prepared an area map which includes previously submitted well survey information (Figure 1) and a groundwater elevation contour map (Figure 2). Blaine's report, presenting the laboratory report and supporting field documents, is included as Attachment A.

Blaine coordinated joint sampling and gauging with Gettler-Ryan Inc. of Dublin, California for the adjacent Chevron site and the BP site on March 8, 2002, but was unable to gauge and sample the former Shell site on that day. Blaine gauged the wells of the former Shell site and the adjacent BP site on March 18, 2002.

Underground Storage Tank (UST) Closure Report: In February 2002, Paradiso Mechanical (Paradiso) of San Leandro, California removed the gasoline USTs and hydraulic hoists, and over-excavated approximately 1,250 cubic yards of impacted soil around and beneath the USTs, product dispenser islands, and hydraulic hoists. Phillip Services Corporation extracted

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

approximately 16,000 gallons of groundwater from the excavation pits. Subsequent to over-excavation, Paradiso placed 810 pounds of oxygen releasing compound (ORC) powder over the excavation bottom. Details are presented in Cambria's *Underground Storage Tank Closure Report* dated February 25, 2002.

ANTICIPATED SECOND QUARTER 2002 ACTIVITIES

Monitoring Well Installation: On May 9, 2002, Cambria installed onsite monitoring well S-5. The monitoring well installation was conducted in accordance with Cambria's April 2, 2002 *Monitoring Well Installation Work Plan* which was approved in an Alameda County Health Care Services Agency letter dated April 5, 2002. The purpose of the investigation was to replace tank backfill well BW-A which was destroyed and removed in January 2002 during tank removal activities. Because the soil boring was advanced in imported clean backfill to 12 fbg, and because no soil samples were collected above the water table, no soil samples were submitted for chemical analysis. Groundwater samples from S-5 will be collected during the second quarter 2002 monitoring event subsequent to developing the new well.

Groundwater Monitoring: Blaine will gauge and sample all wells, change ORC socks in wells S-1 and S-2, and tabulate the data. Cambria will prepare a monitoring report. Joint sampling and gauging of the Shell-branded site and the adjacent Chevron site will be coordinated with Gettler Ryan Inc. in the second quarter 2002. The adjacent BP Oil Company site is gauged and sampled annually only in the first quarter.

CLOSING

We appreciate the opportunity to work with you on this project. Please call James Loetterle at (510) 420-3336 if you have any questions or comments.

Sincerely,
Cambria Environmental Technology, Inc

James Loetterle
Project Geologist

Matthew W. Derby, P.E.
Senior Project Engineer

Figures: 1 - Vicinity/Area Well Survey Map
2 - Groundwater Elevation Contour Map

Attachment: A - Blaine Groundwater Monitoring Report and Field Notes

cc: Karen Petryna, Shell Oil Products US, P.O. Box 7869, Burbank, CA 91510-7869
Tom Bauhs, Chevron Texaco, 6001 Bollinger Canyon Road, San Ramon, CA 94583
Mr. Alan Gibbs, Levine Fricke, 4080 Cabitt Stallman South Road, Suite 100, Granite Bay, CA, 95756
J.T. & Elizabeth G. Watters, Trs., 600 Caldwell Road, Oakland, CA 94611
Walter G. & Jeanette P Watters, Trs., 101 Jasmine Creek Drive, Corona Del Mar, CA 92665

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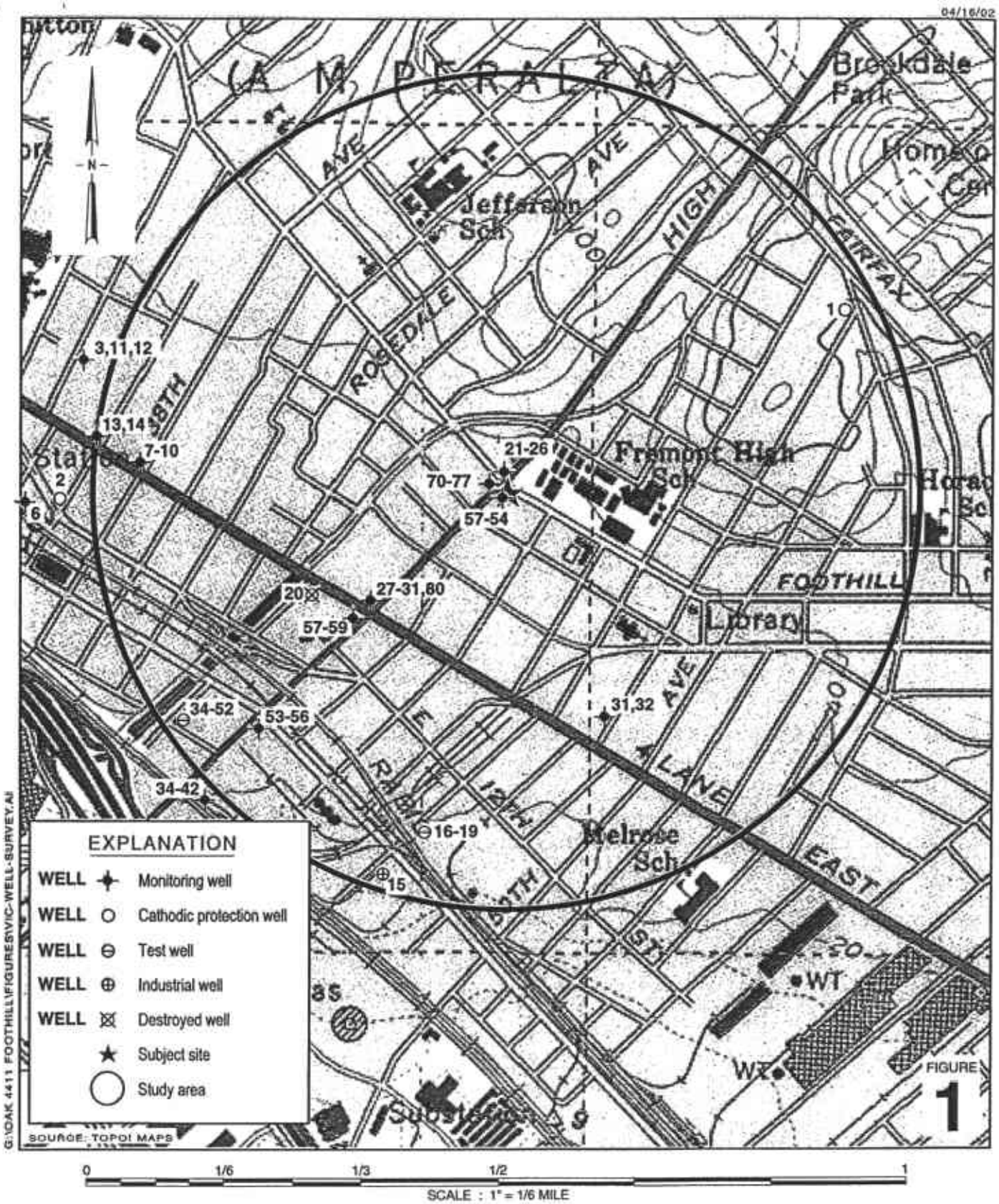

Former Shell Service Station
4411 Foothill Boulevard
Oakland, California
Incident #98995746

CAMBRIA

Vicinity/Area Well Survey Map
(1/2-Mile Radius)

07/01/02

Groundwater Elevation Contour Map

March 18, 2002

CAMBRIA

EAST 17TH STREET

BOND STREET

FOOTHILL BOULEVARD

HIGH STREET

HIGH STREET

C-8
NA
(<0.50) - 3/8/02
(<2.5) - 3/8/02

C-6
NA
(33) - 3/8/02
(90) - 3/8/02

C-5
NA
(<0.50) - 3/8/02
(3.5) - 3/8/02

C-3
NA
(5.4) - 3/8/02
(68) - 3/8/02

C-1
NA
(1,400) - 3/8/02
(1,900) - 3/8/02

C-2
NA
(2,900) - 3/8/02
(1,100) - 3/8/02

C-4
NA
(1,300) - 3/8/02
(610) - 3/8/02

MW-8
27.46
<0.5 - 12/19/96
<10 - 12/19/96

MW-2
28.11
(<0.5) - 12/19/96
(<10) - 12/19/96

MW-4
28.49
(<0.5) - 12/19/96
(<10) - 12/19/96

MW-6
28.49*
(<0.5) - 12/19/96
(<10) - 12/19/96

MW-3
30.93
(<0.5) - 3/8/02
(11.6) - 3/8/02

MW-5
31.11*
(8,240) - 3/8/02
(34.3) - 3/8/02

MW-7
30.38
(1.2) - 12/19/96
(<10) - 12/19/96

MW-9
31.57
(<0.5) - 12/19/96
(<10) - 12/19/96

S-3
30.27
61
5.0

S-2
28.87
93
7,500

S-1
33.22
40
20

S-4
30.31
1,700 - 3/29/02
960 - 3/29/02

S-5

BW-A

C-7
NA
(380) - 3/8/02
(<20) - 3/8/02

C-9
NA
(<0.50) - 3/8/02
(<2.5) - 3/8/02

28.00
29.00
30.00
31.00
32.00
33.00

former USTs

excavation boundary

excavation boundary

underground storage tanks

Chevron Service Station #9-5016
(4263 Foothill Boulevard)

Fr Service Station Building (BP #11326)

Fremont High School

Albertson's Supermarket (no basement)

apartments (no basement)

house (basement)

house - 4720 Bond St (basement)

backyards (no basement)

vacant lot (no basement)

4239 E. 14th St (no basement)

4244 E. 14th St (no basement)

apartments (basement)

apartments (basement)

0 25 50 100 200
SCALE 1:50 FEET

Groundwater Flow Direction
(12/30/98 to 03/18/02)

W N S E

EXPLANATION

- S-1 — Monitoring well location
- BW-A — Destroyed tank backfill well location
- MW-3 — Recovery well
- NA — Not available
- • — 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
ELEV
Benzene
MTBE

- Well designation
- Groundwater elevation, in feet above msl
- Benzene and MTBE concentrations are in parts per billion and are analyzed by EPA Method 8260; results in parentheses were analyzed by EPA Method 8020.

Basement presence based on field observations

FIGURE
2

Former Shell Service Station
4411 Foothill Boulevard
Oakland, California
Incident #98995746

G:\OAKLAND\4411FOOTHILL\FIGURES\1QM02-MP AI

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

April 15, 2002

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

First Quarter 2002 Groundwater Monitoring at
Former Shell Service Station
4411 Foothill Boulevard
Oakland, CA

Monitoring performed on March 18 and 29, 2002

Groundwater Monitoring Report **020318-SO-2**

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, calculated purge volume (if applicable), elapsed evacuation time (if applicable), total volume of water removed (if applicable), and standard water parameter instrument readings. Sample material is collected, contained, stored, and transported to the laboratory in conformance with EPA standards. Purgewater (if applicable) is, likewise, collected and transported to the Martinez Refining Company.

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

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

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

Please call if you have any questions.

Yours truly,

Leon Gearhart
Project Coordinator

LG/mrb

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
4411 Foothill Boulevard
Oakland, CA
Wic #204-5508-3400

Well ID	Date	TPPH (ug/L)	TEPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOB (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	DO Reading (ppm)
S-1	12/18/1992	41,000	NA	3,100	1,100	1,200	8,700	NA	NA	38.31	9.06	NA	NA
S-1	05/26/1993	39,000	6,000	1,300	4,700	1,500	7,800	NA	NA	38.31	NA	NA	NA
S-1	05/28/1993	NA	NA	NA	NA	NA	NA	NA	NA	38.31	12.13	26.18	NA
S-1	06/03/1993	NA	NA	NA	NA	NA	NA	NA	NA	38.31	8.89	29.42	NA
S-1	06/08/1993	NA	NA	NA	NA	NA	NA	NA	NA	38.31	8.80	29.51	NA
S-1	09/21/1993	34,000	5,900	480	5,000	3,800	18,000	NA	NA	38.31	10.40	27.91	NA
S-1	12/14/1993	25,000	13,000	1,100	5,000	2,200	11,000	NA	NA	38.31	9.66	28.65	NA
S-1	03/17/1994	57,000	1,600	1,300	5,400	2,100	11,000	NA	NA	38.31	8.20	30.11	NA
S-1	06/16/1994	57,000	3,000	1,600	6,000	2,000	13,000	NA	NA	38.31	9.41	28.90	NA
S-1	09/22/1994	39,000	ND	1,300	2,100	1,500	7,100	NA	NA	38.31	11.13	27.18	NA
S-1 a	12/15/1994	30,000	3,100	1,100	4,700	1,600	10,000	NA	NA	38.31	7.15	31.16	NA
S-1 a, b	03/30/1995	30,000	3,100	1,400	4,000	1,500	11,000	NA	NA	38.31	6.09	32.22	NA
S-1	06/2019/95	28,000	2,100	1,100	2,300	1,100	8,300	NA	NA	38.31	7.30	31.01	NA
S-1	09/20/1995	40,000	2,600	840	3,600	1,300	8,600	NA	NA	38.31	10.02	28.29	NA
S-1 a	12/06/1995	38,000	6,400	920	3,200	1,500	9,400	NA	NA	38.31	11.64	26.67	NA
S-1	03/21/1996	48,000	NA	700	4,200	1,100	8,600	NA	NA	38.31	6.87	31.44	NA
S-1	09/06/1996	41,000	4,100	830	2,600	2,100	12,000	<250	NA	38.31	10.50	27.81	NA
S-1	12/19/1996	40,000	2,500	540	3,100	1,900	9,800	920	NA	38.31	8.24	30.07	NA
S-1	03/17/1997	42,000	4,700	610	2,700	1,700	11,000	3,500	NA	38.31	7.26	31.05	NA
S-1	06/11/1997	28,000	4,000	540	960	1,300	5,300	220	NA	38.31	10.69	27.62	NA
S-1 (D)	06/11/1997	30,000	3,900	580	1,000	1,400	5,400	<125	NA	38.31	10.69	27.62	NA
S-1	09/17/1997	27,000	4,400	310	1,200	1,900	9,000	170	NA	38.31	10.26	28.05	NA
S-1 (D)	09/17/1997	27,000	4,400	270	1,200	1,900	9,000	170	NA	38.31	10.26	28.05	NA
S-1	12/11/1997	21,000	3,400	350	820	1,500	6,500	<125	NA	38.31	6.96	31.35	NA
S-1	03/16/1998	25,000	2,500	250	820	670	5,000	<125	NA	38.31	6.00	32.31	NA
S-1 (D)	03/16/1998	26,000	NA	250	840	720	5,100	<125	NA	38.31	6.00	32.31	5.3/3.7
S-1	06/23/1998	<1,000	230	280	14	23	15	6,100	7,800	38.31	6.31	32.00	3.8/2.4
S-1	09/01/1998	26,000	2,300	370	620	1,300	33	1,400	120	38.31	9.17	29.14	1.4/2.6

WELL CONCENTRATIONS
Former Shell Service Station
4411 Foothill Boulevard
Oakland, CA
Wic #204-5508-3400

Well ID	Date	TPPH (ug/L)	TEPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOB (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	DO Reading (ppm)
S-1	12/30/1998	29,900	1,970	174	732	1,680	5,740	182	NA	38.31	8.99	29.32	1.6/2.0
S-1	03/30/1999	14,200	1,150	1,360	260	1,070	3,580	<500	90.0	38.31	6.10	32.21	1.2/1.8
S-1	03/31/1999	NA	NA	NA	NA	NA	NA	NA	NA	38.31	7.84	30.47	NA
S-1	06/14/1999	20,200	4,280	135	407	825	5,000	705	NA	38.31	7.94	30.37	1.4/2.1
S-1	09/30/1999	18,300	3,120	189	531	1,250	4,740	322	NA	38.31	10.04	28.27	4.3/2.0
S-1	12/22/1999	2,450	444a	50.2	97.5	139	458	133	NA	38.31	9.42	28.89	1.8/2.3
S-1	03/09/2000	1,230d	1,200a	21.2d	115d	116d	411d	45.1d	NA	38.30	6.21	32.09	2.0/2.9
S-1	06/20/2000	755	352a	26.0	48.4	43.1	230	71.5	NA	38.30	9.18	29.12	2.0/2.4
S-1	09/05/2000	2,980	783a	43.5	117	168	871	192	NA	38.30	10.14	28.16	0.6/0.3
S-1	12/04/2000	399	238a	5.34	14.6	36.2	106	24.9	NA	38.30	10.10	28.20	8.6/9.8
S-1	12/12/2000	NA	NA	NA	NA	NA	NA	NA	NA	38.30	9.22	29.08	NA
S-1	03/08/2001	2,940	1,390a	49.6	52.9	21.8	749	87.6	NA	38.30	5.84	32.46	2.7e
S-1	06/07/2001	10,000	1,400	120	370	680	2,400	150	NA	38.30	8.80	29.50	6.2/2.2
S-1	09/13/2001	240	<200	1.8	8.9	16	53	NA	17	38.30	10.25	28.05	7.8/8.9
S-1	11/19/2001	1,400	<300	14	42	110	260	NA	27	38.30	9.87	28.43	7.7/7.3
S-1	**03/18/2002**	**7,500**	**<300**	**40**	**370**	**560**	**2,000**	**NA**	**20**	**38.30**	**5.08**	**33.22**	**5.6/6.1**
S-2	05/28/1993	NA	NA	NA	NA	NA	NA	NA	NA	38.79	9.51	29.28	NA
S-2	06/03/1993	NA	NA	NA	NA	NA	NA	NA	NA	38.79	9.51	29.28	NA
S-2	06/08/1993	NA	NA	NA	NA	NA	NA	NA	NA	38.79	9.57	29.22	NA
S-2	06/29/1993	1,300	NA	290	35	38	130	NA	NA	38.79	NA	NA	NA
S-2	09/21/1993	3,300	NA	870	24	190	120	NA	NA	38.79	10.54	28.25	NA
S-2	12/14/1993	1,300	NA	400	16	36	27	NA	NA	38.79	9.76	29.03	NA
S-2	03/17/1994	4,500	NA	610	27	92	110	NA	NA	38.79	9.92	28.87	NA
S-2 (D)	03/17/1994	4,000	NA	610	26	93	120	NA	NA	38.79	9.92	28.87	NA
S-2	06/16/1994	2,800	NA	690	45	97	140	NA	NA	38.79	10.11	28.68	NA
S-2	09/22/1994	4,000	NA	630	94	64	230	NA	NA	38.79	10.51	28.28	NA
S-2	12/15/1994	1,600	NA	450	300	67	130	NA	NA	38.79	9.12	29.67	NA
S-2 b	03/30/1995	8,200	NA	2,800	190	240	700	NA	NA	38.79	7.86	30.93	NA

WELL CONCENTRATIONS
Former Shell Service Station
4411 Foothill Boulevard
Oakland, CA
Wic #204-5508-3400

Well ID	Date	TPPH (ug/L)	TEPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOB (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	DO Reading (ppm)
S-2	06/20/1995	9,600	NA	2,600	160	170	500	NA	NA	38.79	9.51	29.28	NA
S-2	09/20/1995	4,200	NA	920	45	98	140	NA	NA	38.79	10.06	28.73	NA
S-2	12/06/1995	<5,000	NA	790	67	64	130	NA	NA	38.79	10.52	28.27	NA
S-2	03/21/1996	3,700	NA	850	45	96	170	NA	NA	38.79	8.60	30.19	NA
S-2	09/06/1996	2,400	NA	500	33	39	84	490	NA	38.79	10.50	28.29	NA
S-2	12/19/1996	1,200	NA	330	15	24	31	430	NA	38.79	9.40	29.39	NA
S-2	03/17/1997	4,100	NA	780	42	110	120	2,200	NA	38.79	9.82	28.97	NA
S-2	06/11/1997	760	NA	120	<5.0	7.0	7.6	900	NA	38.79	10.18	28.61	NA
S-2	09/17/1997	1,500	NA	230	8.6	40	27	480	NA	38.79	9.90	28.89	NA
S-2	12/11/1997	1,300	NA	240	15	33	57	280	NA	38.79	8.27	30.52	NA
S-2	03/16/1998	1,100	NA	830	48	<10	<10	4,700	4,800	38.79	7.97	30.82	7.0/4.3
S-2	06/23/1998	720	NA	46	6.8	50	68	50	8.8	38.79	8.20	30.59	4.2/3.8
S-2 (D)	06/23/1998	810	NA	49	7.1	50	70	49	8.8	38.79	8.20	30.59	4.2/3.8
S-2	09/01/1998	<2,000	NA	170	<20	<20	<20	9,300	12,000	38.79	9.85	28.94	1.9/1.6
S-2	12/30/1998	<5,000	NA	369	<50	<50	<50	14,300	NA	38.79	9.84	28.95	2.0/1.8
S-2	03/30/1999	<2,000	NA	234	<20.0	27.4	36.9	49,200	53,000	38.79	8.41	30.38	2.1/1.8
S-2	03/31/1999	NA	NA	NA	NA	NA	NA	NA	NA	38.79	8.67	30.12	NA
S-2	06/14/1999	<1,000	NA	175	<10.0	<10.0	11.1	67,500	NA	38.79	9.80	28.99	NA
S-2	09/30/1999	678	177a	135	8.22	14.9	25.8	17,100	17,000c	38.79	10.58	28.21	5.1/4.8
S-2	12/22/1999	316	142a	55.8	10.1	5.26	10.4	9,410	8,810	38.79	10.13	28.66	9.6/5.2
S-2	03/09/2000	2,670	630a	1,190d	62.7	84.1	125	29,200d	31,400c	38.78	7.88	30.90	7.6/5.0
S-2	06/20/2000	<5,000	401a	348	<50.0	50.4	127	35,800	33,900c	38.78	10.27	28.51	1.9/2.2
S-2	09/05/2000	<5,000	373a	106	<50.0	<50.0	<50.0	25,800	37,100c	38.78	10.19	28.59	0.5/1.6
S-2	12/04/2000	<250	1,730a	4.37	<2.50	<2.50	<2.50	4,500	5,130c	38.78	10.30	28.48	10.6/9.4
S-2	12/12/2000	NA	NA	NA	NA	NA	NA	NA	NA	38.78	9.66	29.12	NA
S-2	03/08/2001	<2,500	<51.3	318	45.7	53.5	88.5	15,500	17,500	38.78	8.57	30.21	2.7e
S-2	06/07/2001	18,000	11,000	450	170	390	2,200	13,000	18,000	38.78	9.39	29.39	1.1/2.0
S-2	09/13/2001	13,000	<5,000	140	110	350	1,400	NA	9,200	38.78	10.34	28.44	11.0/4.5
S-2	11/19/2001	[redacted]	[redacted]	71	27	86	330	NA	[redacted]	38.78	9.90	28.88	5.0/3.1

WELL CONCENTRATIONS
Former Shell Service Station
4411 Foothill Boulevard
Oakland, CA
Wic #204-5508-3400

Well ID	Date	TPPH (ug/L)	TEPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOB (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	DO Reading (ppm)
S-2	**03/18/2002**	[redacted]	[redacted]	**93**	**<20**	**35**	**100**	**NA**	[redacted]	**38.78**	**9.91**	**28.87**	**0.9/4.2**
S-3	05/28/1993	NA	NA	NA	NA	NA	NA	NA	NA	37.33	8.45	28.88	NA
S-3	06/03/1993	NA	NA	NA	NA	NA	NA	NA	NA	37.33	8.36	28.97	NA
S-3	01/19/1900	NA	NA	NA	NA	NA	NA	NA	NA	37.33	8.41	28.92	NA
S-3	06/29/1993	29,000	NA	1,500	1,800	950	6,200	NA	NA	37.33	NA	NA	NA
S-3	09/21/1993	15,000	NA	900	2,200	2,600	11,000	NA	NA	37.33	10.08	27.25	NA
S-3	12/94/1993	20,000	NA	1,100	2,400	1,800	8,500	NA	NA	37.33	8.80	28.53	NA
S-3	03/17/1994	14,000	NA	580	190	750	1,700	NA	NA	37.33	8.34	28.99	NA
S-3	06/16/1994	20,000	NA	700	690	1,400	4,100	NA	NA	37.33	9.12	28.21	NA
S-3 (D)	06/16/1994	19,000	NA	680	560	1,300	3,700	NA	NA	37.33	NA	NA	NA
S-3	09/22/1994	24,000	NA	630	1,100	1,400	5,700	NA	NA	37.33	10.27	27.06	NA
S-3 (D)	09/22/1994	25,000	NA	720	1,100	1,500	6,100	NA	NA	37.33	NA	NA	NA
S-3	12/15/1994	18,000	NA	520	800	1,100	4,200	NA	NA	37.33	7.81	29.52	NA
S-3 (D)	12/15/1994	23,000	NA	1,000	1,900	2,000	8,600	NA	NA	37.33	NA	NA	NA
S-3 b	03/30/1995	8,800	NA	360	730	700	3,700	NA	NA	37.33	7.06	30.27	NA
S-3 (D)	03/30/1995	7,600	NA	330	570	600	2,600	NA	NA	37.33	NA	NA	NA
S-3	06/20/1995	9,600	NA	510	170	960	1,700	NA	NA	37.33	8.15	29.18	NA
S-3 (D)	06/20/1995	9,800	NA	500	170	950	1,700	NA	NA	37.33	NA	NA	NA
S-3	09/20/1995	21,000	NA	400	560	1,300	4,600	NA	NA	37.33	9.32	28.01	NA
S-3	12/06/1995	24,000	NA	630	1,400	1,400	6,000	NA	NA	37.33	10.53	26.80	NA
S-3 (D)	12/06/1995	22,000	NA	630	1,200	1,400	5,500	NA	NA	37.33	NA	NA	NA
S-3	03/21/1996	9,100	NA	290	110	490	1,600	NA	NA	37.33	7.32	30.01	NA
S-3 (D)	03/21/1996	11,000	NA	310	250	540	2,100	NA	NA	37.33	NA	NA	NA
S-3	09/06/1996	15,000	NA	440	300	1,100	3,000	500	NA	37.33	10.10	27.23	NA
S-3 (D)	09/06/1996	11,000	NA	490	170	820	1,500	700	NA	37.33	NA	NA	NA
S-3	12/19/1996	12,000	NA	600	380	850	2,500	380	NA	37.33	8.36	28.97	NA
S-3 (D)	12/19/1996	12,000	NA	590	380	830	2,500	540	NA	37.33	8.36	28.97	NA
S-3	03/17/1997	12,000	NA	520	140	740	1,400	320	NA	37.33	8.57	28.76	NA

WELL CONCENTRATIONS
Former Shell Service Station
4411 Foothill Boulevard
Oakland, CA
Wic #204-5508-3400

Well ID	Date	TPPH (ug/L)	TEPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOB (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	DO Reading (ppm)
S-3 (D)	03/17/1997	9,600	NA	500	100	680	1,100	<250	NA	37.33	8.57	28.76	NA
S-3	06/11/1997	9,600	NA	510	94	740	1,100	410	NA	37.33	9.26	28.07	NA
S-3	09/17/1997	21,000	NA	140	560	1,800	7,200	130	NA	37.33	9.62	27.71	NA
S-3	12/11/1997	24,000	NA	530	970	1,600	6,900	950	NA	37.33	7.34	29.99	NA
S-3 (D)	12/11/1997	29,000	NA	520	1,000	1,600	7,300	970	NA	37.33	7.34	29.99	NA
S-3	03/16/1998	29,000	NA	840	810	1,700	6,000	<250	NA	37.33	5.75	31.58	3.0/3.4
S-3	06/23/1998	3,800	NA	90	220	240	1,400	<50	NA	37.33	5.98	31.35	4.2/2.0
S-3	09/01/1998	9,600	NA	480	120	870	1,800	490	<50	37.33	8.98	28.35	1.9/2.8
S-3 (D)	09/01/1998	9,200	NA	420	110	800	1,700	110	<50	37.33	8.98	28.35	1.9/2.8
S-3	12/30/1998	7,660	NA	240	103	410	834	64.9	NA	37.33	9.11	28.22	1.8/1.6
S-3	03/30/1999	2,070	NA	195	10.0	<5.00	48.6	354	64.6	37.33	6.95	30.38	1.3/1.5
S-3	03/31/1999	NA	NA	NA	NA	NA	NA	NA	NA	37.33	7.48	29.85	NA
S-3	06/14/1999	1,250	NA	37.4	17.4	110	109	118	NA	37.33	8.85	28.48	NA
S-3	09/30/1999	8,270	2,020a	226	113	686	1,440	184	NA	37.33	9.66	27.67	3.5/2.8
S-3	12/22/1999	9,530	2,270a	207	132	603	1,450	616	NA	37.33	9.50	27.83	0.98/0.8
S-3	03/09/2000	2,290d	1,600a	84.5d	17.0d	104d	105d	29.3d	NA	37.30	6.25	31.05	1.0/1.4
S-3	06/20/2000	5,570	2,900a	117	41.6	395	393	354	NA	37.30	9.67	27.63	1.8/2.0
S-3	09/05/2000	6,930	1,600a	127	85.5	354	535	509	NA	37.30	9.49	27.81	1.1/1.9
S-3	12/04/2000	8,390	1,460a	217	82.4	471	952	436	NA	37.30	9.23	28.07	1.1/1.5
S-3	12/12/2000	NA	NA	NA	NA	NA	NA	NA	NA	37.30	9.23	28.07	NA
S-3	03/08/2001	19,400	1,720a	465	772	1,230	3,830	160	NA	37.30	8.17	29.13	1.1f
S-3	06/07/2001	12,000	1,400	230	110	900	1,100	120	NA	37.30	8.78	28.52	0.8/0.9
S-3	09/13/2001	32,000	<2,000	400	880	2,000	7,000	NA	<100	37.30	9.93	27.37	3.7/2.9
S-3	11/19/2001	[redacted]	<2,000	160	210	990	4,100	NA	<50	37.30	9.33	27.97	2.9/1.9
S-3	**03/18/2002**	[redacted]	**810**	**61**	**120**	**130**	**620**	**NA**	**5.0**	**37.30**	**7.03**	**30.27**	**1.1/4.7**
S-4	03/29/2000	NA	NA	NA	NA	NA	NA	NA	NA	39.06	8.37	30.69	NA
S-4	03/31/2000	20,900	5,780a	4,570	272	595	997	4,490	4,450c	39.06	8.92	30.14	1.8/1.2
S-4	06/20/2000	19,500	244a	4,590	309	723	1,290	3,740	NA	39.06	8.77	30.29	2.7/2.9

WELL CONCENTRATIONS
Former Shell Service Station
4411 Foothill Boulevard
Oakland, CA
Wic #204-5508-3400

Well ID	Date	TPPH (ug/L)	TEPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOB (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	DO Reading (ppm)
S-4	09/05/2000	5,760	1,670a	841	54.2	162	115	1,040	NA	39.06	10.57	28.49	1.3/0.3
S-4	12/04/2000	3,990	1,050a	949	<10.0	118	48.3	1,120	NA	39.06	10.67	28.39	1.1/1.0
S-4	12/12/2000	NA	NA	NA	NA	NA	NA	NA	NA	39.06	10.64	28.42	NA
S-4	03/08/2001	20,100	5,840a	5,210	105	381	281	2,520	NA	39.06	8.44	30.62	1.0/0.9
S-4	06/07/2001	11,000	3,500	2,500	86	370	170	2,000	NA	39.06	10.57	28.49	0.7/0.6
S-4	09/13/2001	4,200	<800	790	14	110	48	NA	690	39.06	11.27	27.79	3.8/3.9
S-4	11/19/2001	2,300	<600	230	4.1	21	22	NA	590	39.06	10.83	28.23	3.6/1.6
S-4	**03/18/2002**	**Unable to sample**		**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**39.06**	**8.75**	**30.31**	**NA**
S-4	**03/29/2002**	[redacted]	**NA**	[redacted]							**8.85 g**	**30.21**	**3.0/3.1**

BW-A	09/30/1999	NA	NA	NA	NA	NA	NA	NA	NA	NA	10.55	NA	2.3
BW-A	12/22/1999	NA	NA	NA	NA	NA	NA	NA	NA	NA	9.52	NA	2.2
BW-A	03/09/2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	3.99	NA	1.5
BW-A	06/20/2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	9.69	NA	2.4
BW-A	09/05/2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	9.43	NA	1.0
BW-A	12/04/2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	8.96	NA	1.3
BW-A	12/12/2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	8.71	NA	NA
BW-A	03/08/2001	<2,500	1,370a	46.6	<25.0	<25.0	<25.0	10,600	11,700	NA	6.38	NA	0.9/1.4
BW-A	06/07/2001	1,100	960	<10	<10	<10	17	7,200	NA	NA	9.82	NA	3.6/0.8
BW-A	09/13/2001	<2,000	460	<20	<20	<20	<50	NA	13,000	NA	10.49	NA	3.3/1.7
BW-A	11/19/2001	NA	NA	NA	NA	NA	NA	NA	NA	NA	9.89	NA	NA

WELL CONCENTRATIONS
Former Shell Service Station
4411 Foothill Boulevard
Oakland, CA
Wic #204-5508-3400

Well ID	Date	TPPH (ug/L)	TEPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOB (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	DO Reading (ppm)

Abbreviations:
TPPH = Total petroleum hydrocarbons as gasoline by EPA Method 8260B; prior to September 13, 2001, analyzed by EPA Method 8015.
TEPH = Total petroleum hydrocarbons as diesel by modified EPA Method 8015.
BTEX = Benzene, toluene, ethylbenzene, xylenes by EPA Method 8260B; prior to September 13, 2001, analyzed by EPA Method 8020.
MTBE = Methyl-tertiary-butyl ether
TOB = Top of Box Elevation
GW = Groundwater
DO = Dissolved Oxygen
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
NA = Not applicable

Notes:
a = Chromatogram pattern indicates an unidentified hydrocarbon.
b = National Environmental Testing, Inc. (NET), analyzed within hold time but further dilutions were required and analyzed out of hold time. NET suggests that these should be considered minimum concentrations.
c = Sample analyzed outside the EPA recommended holding times.
d = Result reported was generated out of hold time.
e = Post-purge DO reading.
f = Pre-purge DO reading.
g = Estimated depth to water from top of box; TOB determined by using the survey data from 2/3/00 for the difference between TOB and TOC. Wells S-1 through S-4 surveyed February 3, 2000 by Virgil Chavez Land Surveying of Vallejo, California.

KIFF ANALYTICAL LLC

Report Number : 25399
Date : 4/11/2002

Subject : 3 Water Samples
Project Name : 4411 Foothill Boulevard, Oakland
Project Number : 020318-S0-2
P.O. Number : 98995746

Case Narrative

The Method Reporting Limit for TPH as Diesel is increased due to interference from Gasoline-Range Hydrocarbons for sample S-1. Hydrocarbons reported as TPH as Diesel do not exhibit a typical Diesel chromatographic pattern for samples S-2 and S-3.Matrix Spike/Matrix Spike Duplicate Results associated with sample S-1 for the analyte Methyl-t-butyl ether were affected by the analyte concentrations already present in the un-spiked sample.

Approved By: Joel Kiff

720 Olive Drive, Suite D Davis, CA 95616 916-297-4800

KIFF ANALYTICAL LLC

Report Number : 25399
Date : 4/11/2002

Leon Gearhart
Blaine Tech Services
1680 Rogers Avenue
San Jose, CA 95112-1105

Subject : 3 Water Samples
Project Name : 4411 Foothill Boulevard, Oakland
Project Number : 020318-S0-2
P.O. Number : 98995746

Dear Mr. Gearhart,

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,

Joel Kiff

Joel Kiff

KIFF ANALYTICAL LLC

Report Number : 25399
Date : 4/11/2002

Project Name : **4411 Foothill Boulevard, Oakland**
Project Number : **020318-S0-2**

Sample : **S-1** Matrix : Water Lab Number : 25399-01
Sample Date :3/18/2002

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**40**	0.50	ug/L	EPA 8260B	3/22/2002
Toluene	**370**	0.50	ug/L	EPA 8260B	3/22/2002
Ethylbenzene	**560**	2.5	ug/L	EPA 8260B	3/24/2002
Total Xylenes	**2000**	2.5	ug/L	EPA 8260B	3/24/2002
Methyl-t-butyl ether (MTBE)	**20**	5.0	ug/L	EPA 8260B	3/22/2002
TPH as Gasoline	**7500**	250	ug/L	EPA 8260B	3/24/2002
Toluene - d8 (Surr)	106		% Recovery	EPA 8260B	3/22/2002
4-Bromofluorobenzene (Surr)	99.7		% Recovery	EPA 8260B	3/22/2002
TPH as Diesel	**< 300**	300	ug/L	M EPA 8015	4/10/2002

Approved By: Joel Kiff

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

KIFF ANALYTICAL LLC

Report Number : 25399
Date : 4/11/2002

Project Name : **4411 Foothill Boulevard, Oakland**
Project Number : **020318-S0-2**

Sample : **S-2** Matrix : Water Lab Number : 25399-02
Sample Date :3/18/2002

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**93**	20	ug/L	EPA 8260B	3/30/2002
Toluene	**< 20**	20	ug/L	EPA 8260B	3/30/2002
Ethylbenzene	**35**	20	ug/L	EPA 8260B	3/30/2002
Total Xylenes	**100**	20	ug/L	EPA 8260B	3/30/2002
Methyl-t-butyl ether (MTBE)	**7500**	200	ug/L	EPA 8260B	3/30/2002
TPH as Gasoline	**3700**	2000	ug/L	EPA 8260B	3/30/2002
Toluene - d8 (Surr)	99.9		% Recovery	EPA 8260B	3/30/2002
4-Bromofluorobenzene (Surr)	97.7		% Recovery	EPA 8260B	3/30/2002
TPH as Diesel	**14000**	50	ug/L	M EPA 8015	4/10/2002

Approved By: Joel Kiff

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

KIFF ANALYTICAL LLC

Report Number : 25399
Date : 4/11/2002

Project Name : **4411 Foothill Boulevard, Oakland**
Project Number : **020318-S0-2**

Sample : **S-3** Matrix : Water Lab Number : 25399-03
Sample Date :3/18/2002

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**61**	0.50	ug/L	EPA 8260B	3/30/2002
Toluene	**120**	0.50	ug/L	EPA 8260B	3/30/2002
Ethylbenzene	**130**	0.50	ug/L	EPA 8260B	3/30/2002
Total Xylenes	**620**	2.0	ug/L	EPA 8260B	3/29/2002
Methyl-t-butyl ether (MTBE)	**5.0**	5.0	ug/L	EPA 8260B	3/30/2002
TPH as Gasoline	**3800**	50	ug/L	EPA 8260B	3/30/2002
Toluene - d8 (Surr)	100		% Recovery	EPA 8260B	3/30/2002
4-Bromofluorobenzene (Surr)	99.4		% Recovery	EPA 8260B	3/30/2002
TPH as Diesel	**810**	50	ug/L	M EPA 8015	4/9/2002

Approved By: Joel Kiff

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

Report Number : 25399

Date : 4/11/2002

QC Report : Method Blank Data

Project Name : **4411 Foothill Boulevard, Oakland**

Project Number : **020318-S0-2**

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
TPH as Diesel	< 50	50	ug/L	M EPA 8015	4/1/2002
Benzene	< 0.50	0.50	ug/L	EPA 8260B	3/29/2002
Toluene	< 0.50	0.50	ug/L	EPA 8260B	3/29/2002
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	3/29/2002
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	3/29/2002
Methyl-t-butyl ether (MTBE)	< 5.0	5.0	ug/L	EPA 8260B	3/29/2002
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	3/29/2002
Toluene - d8 (Surr)	96.3		%	EPA 8260B	3/29/2002
4-Bromofluorobenzene (Surr)	94.5		%	EPA 8260B	3/29/2002
Benzene	< 0.50	0.50	ug/L	EPA 8260B	3/22/2002
Toluene	< 0.50	0.50	ug/L	EPA 8260B	3/22/2002
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	3/22/2002
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	3/22/2002
Methyl-t-butyl ether (MTBE)	< 5.0	5.0	ug/L	EPA 8260B	3/22/2002
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	3/22/2002
Toluene - d8 (Surr)	102		%	EPA 8260B	3/22/2002
4-Bromofluorobenzene (Surr)	96.4		%	EPA 8260B	3/22/2002

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed

Approved By: Joel Kiff

KIFF ANALYTICAL, LLC

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

Report Number : 25399

QC Report : Matrix Spike/ Matrix Spike Duplicate

Date : 4/11/2002

Project Name : **4411 Foothill Boulevard,**

Project Number : **020318-S0-2**

Parameter	Spiked Sample	Sample Value	Spike Level	Spike Dup. Level	Spiked Sample Value	Duplicate Spiked Sample Value	Units	Analysis Method	Date Analyzed	Spiked Sample Percent Recov.	Duplicate Spiked Sample Percent Recov.	Relative Percent Diff.	Spiked Sample Percent Recov. Limit	Relative Percent Diff. Limit
TPH as Diesel	Blank	<50	1000	1000	843	896	ug/L	M EPA 8015	4/1/02	84.3	89.6	6.10	70-130	25
Benzene	25556-01	<0.50	20.0	19.9	20.3	20.0	ug/L	EPA 8260B	3/29/02	102	100	1.33	70-130	25
Toluene	25556-01	<0.50	20.0	19.9	19.1	18.6	ug/L	EPA 8260B	3/29/02	95.8	93.9	1.95	70-130	25
Tert-Butanol	25556-01	<5.0	99.8	99.3	96.4	94.8	ug/L	EPA 8260B	3/29/02	96.6	95.4	1.24	70-130	25
Methyl-t-Butyl Ether	25556-01	4.3	20.0	19.9	22.2	22.1	ug/L	EPA 8260B	3/29/02	90.0	90.0	0.104	70-130	25
Benzene	25401-02	61	40.0	40.0	104	99.8	ug/L	EPA 8260B	3/22/02	107	97.3	9.50	70-130	25
Toluene	25401-02	<0.50	40.0	40.0	44.0	43.4	ug/L	EPA 8260B	3/22/02	110	109	1.24	70-130	25
Tert-Butanol	25401-02	20	200	200	224	230	ug/L	EPA 8260B	3/22/02	102	105	2.92	70-130	25
Methyl-t-Butyl Ether	25401-02	270	40.0	40.0	307	295	ug/L	EPA 8260B	3/22/02	86.2	56.6	41.5	70-130	25

Approved By: Joel Kiff

KIFF ANALYTICAL, LLC

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

Report Number : 25399

Date : 4/11/2002

QC Report : Laboratory Control Sample (LCS)

Project Name : **4411 Foothill Boulevard,**

Project Number : **020318-S0-2**

Parameter	Spike Level	Units	Analysis Method	Date Analyzed	LCS Percent Recov.	LCS Percent Recov. Limit
Benzene	40.0	ug/L	EPA 8260B	3/28/02	104	70-130
Toluene	40.0	ug/L	EPA 8260B	3/28/02	99.6	70-130
Tert-Butanol	200	ug/L	EPA 8260B	3/28/02	97.9	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	3/28/02	92.3	70-130
Benzene	40.0	ug/L	EPA 8260B	3/22/02	108	70-130
Toluene	40.0	ug/L	EPA 8260B	3/22/02	113	70-130
Tert-Butanol	200	ug/L	EPA 8260B	3/22/02	103	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	3/22/02	96.2	70-130

Approved By: Joel Kiff

KIFF ANALYTICAL, LLC

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

Sequoia
Analytical

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

28 March, 2002

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

RE: General
Sequoia Work Order: P203358

Enclosed are the results of analyses for samples received by the laboratory on 03/18/02 14:04. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Angelee Cari

Angelee Cari
Client Services Representative

CA ELAP Certificate #2374

Sequoia Analytical

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

Kiff Analytical 720 Olive Drive, Suite D Davis CA, 95616	Project: General Project Number: 4411 Foothill Blvd, Oakland Project Manager: Joel Kiff	**Reported:** 03/28/02 13:46

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
S-1	P203358-01	Water	03/18/02 11:14	03/18/02 14:04
S-2	P203358-02	Water	03/18/02 11:46	03/18/02 14:04
S-3	P203358-03	Water	03/18/02 12:24	03/18/02 14:04

Sequoia Analytical - Petaluma

Angelee Cari

Angelee Cari, Client Services Representative

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.

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Kiff Analytical	Project: General	
720 Olive Drive, Suite D	Project Number: 4411 Foothill Blvd, Oakland	**Reported:**
Davis CA, 95616	Project Manager: Joel Kiff	03/28/02 13:46

Conventional Chemistry Parameters by APHA/EPA Methods

Sequoia Analytical - Petaluma

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
S-1 (P203358-01) Water Sampled: 03/18/02 11:14 Received: 03/18/02 14:04									
Ferrous Iron	ND	100	ug/l	1	2030500	03/18/02	03/18/02	SM 3500 Fe D#4	
S-2 (P203358-02) Water Sampled: 03/18/02 11:46 Received: 03/18/02 14:04									
Ferrous Iron	ND	100	ug/l	1	2030500	03/18/02	03/18/02	SM 3500 Fe D#4	
S-3 (P203358-03) Water Sampled: 03/18/02 12:24 Received: 03/18/02 14:04									
Ferrous Iron	**300**	100	ug/l	1	2030500	03/18/02	03/18/02	SM 3500 Fe D#4	

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Kiff Analytical	Project: General	
720 Olive Drive, Suite D	Project Number: 4411 Foothill Blvd, Oakland	**Reported:**
Davis CA, 95616	Project Manager: Joel Kiff	03/28/02 13:46

Anions by EPA Method 300.0

Sequoia Analytical - Petaluma

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
S-1 (P203358-01) Water Sampled: 03/18/02 11:14 Received: 03/18/02 14:04									
Nitrate as N	ND	200	ug/l	1	2030423	03/18/02	03/18/02	EPA 300.0	
Sulfate as SO4	**2300**	1000	"	"	2030623	03/26/02	03/26/02	"	
S-2 (P203358-02) Water Sampled: 03/18/02 11:46 Received: 03/18/02 14:04									
Nitrate as N	ND	200	ug/l	1	2030423	03/18/02	03/18/02	EPA 300.0	
Sulfate as SO4	**5000**	1000	"	"	2030623	03/26/02	03/26/02	"	
S-3 (P203358-03) Water Sampled: 03/18/02 12:24 Received: 03/18/02 14:04									
Nitrate as N	**3900**	200	ug/l	1	2030423	03/18/02	03/18/02	EPA 300.0	
Sulfate as SO4	**26000**	1000	"	"	2030623	03/26/02	03/26/02	"	

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Kiff Analytical	Project: General	
720 Olive Drive, Suite D	Project Number: 4411 Foothill Blvd, Oakland	**Reported:**
Davis CA, 95616	Project Manager: Joel Kiff	03/28/02 13:46

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control

Sequoia Analytical - Petaluma

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2030500 - General Preparation										
Blank (2030500-BLK1)				Prepared & Analyzed: 03/18/02						
Ferrous Iron	ND	100	ug/l							
LCS (2030500-BS1)				Prepared & Analyzed: 03/18/02						
Ferrous Iron	833	100	ug/l	800		104	80-120			
Matrix Spike (2030500-MS1)	Source: P203358-01			Prepared & Analyzed: 03/18/02						
Ferrous Iron	ND	100	ug/l	870	ND	11	75-125			QM-07
Matrix Spike Dup (2030500-MSD1)	Source: P203358-01			Prepared & Analyzed: 03/18/02						
Ferrous Iron	ND	100	ug/l	870	ND	11	75-125	0	20	QM-07

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Kiff Analytical 720 Olive Drive, Suite D Davis CA, 95616	Project: General Project Number: 4411 Foothill Blvd, Oakland Project Manager: Joel Kiff	**Reported:** 03/28/02 13:46

Anions by EPA Method 300.0 - Quality Control

Sequoia Analytical - Petaluma

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2030423 - General Preparation										
Blank (2030423-BLK1)				Prepared & Analyzed: 03/18/02						
Nitrate as N	ND	200	ug/l							
LCS (2030423-BS1)				Prepared & Analyzed: 03/18/02						
Nitrate as N	10700	200	ug/l	10000		107	90-110			
Matrix Spike (2030423-MS1)	Source: P203358-01			Prepared & Analyzed: 03/18/02						
Nitrate as N	8740	400	ug/l	10000	ND	87	80-120			
Matrix Spike Dup (2030423-MSD1)	Source: P203358-01			Prepared & Analyzed: 03/18/02						
Nitrate as N	10500	400	ug/l	10000	ND	105	80-120	18	20	
Batch 2030623 - General Preparation										
Blank (2030623-BLK1)				Prepared & Analyzed: 03/26/02						
Sulfate as SO4	ND	1000	ug/l							
LCS (2030623-BS1)				Prepared & Analyzed: 03/26/02						
Sulfate as SO4	10400	1000	ug/l	10000		104	90-110			
Matrix Spike (2030623-MS1)	Source: P203361-04			Prepared: 03/26/02 Analyzed: 03/27/02						
Sulfate as SO4	11200	2000	ug/l	10000	4100	71	80-120			QM-07
Matrix Spike Dup (2030623-MSD1)	Source: P203361-04			Prepared: 03/26/02 Analyzed: 03/27/02						
Sulfate as SO4	11400	2000	ug/l	10000	4100	73	80-120	2	20	QM-07

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Kiff Analytical	Project: General	
720 Olive Drive, Suite D	Project Number: 4411 Foothill Blvd, Oakland	**Reported:**
Davis CA, 95616	Project Manager: Joel Kiff	03/28/02 13:46

Notes and Definitions

QM-07	The spike recovery was outside control limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
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

KIFF ANALYTICAL LLC

720 Olive Drive, Suite D
Davis, CA 95616
Lab: 530.297.4800
Fax: 530.297.4808

Lab No. 25399 Page ____ of ____

Chain-of-Custody Record and Analysis Request

Project Contact (Hardcopy or PDF To): Joel Kiff

Company/Address: 720 Olive Drive, Davis, CA

Phone No.: 530)297-4800 | FAX No.: (530)297-4808

Project Number: ____ | P.O. No: 25399

Project Address: 4411 FOOTHILL BOULEVARD, OAKLAND

Project Name: 4411 FOOTHILL BOULEVARD, OAKLAND

EDF Report? ☒ Yes ☐ No

Recommended but not mandatory to complete this section:
Sampling Company Log Code: . . .

Global ID: T0-6-0-0-1-0-1-0-6-5

EDF Deliverable To (Email Address): INBOX@KIFFANALYTICAL.COM

Sampler Signature:

Sample Designation	Sampling: Date	Sampling: Time	Container: 40 ml VOA	Container: SLEEVE	Container: AMBER	Container: POLY	Preservative: HCl	Preservative: HNO_3	Preservative: ICE	Preservative: NONE	Matrix: WATER	Matrix: SOIL	BTEX (8021B)	BTEX/TPH Gas/MTBE (8021B/M8015)	TPH as Diesel (M8015)	TPH as Motor Oil (M8015)	TPH Gas/BTEX/MTBE (8260B)	5 Oxygenates/TPH Gas/BTEX (8260B)	7 Oxygenates/TPH Gas/BTEX (8260B)	5 Oxygenates (8260B)	7 Oxygenates (8260B)	Lead Scav. (1,2 DCA & 1,2 EDB - 8260B)	EPA 8260B (Full List)	Volatile Halocarbons (EPA 8260B)	Lead (7421/239.2) TOTAL (X) W.E.T. (X)	NITRATE	SULFATE	FERROUS IRON	TAT: 12 hr/24 hr/48 hr/72 hr/1 wk	For Lab Use Only
S-1	3/18/02	1114			2	1	P203358-01																			X	X	X		
S-2	↓	1146			2	1						2														X	X	X		
S-3	↓	1224			2	1						3														X	X	X		

COOLER CUSTODY SEALS INTACT ☐
NOT INTACT ☐
COOLER TEMPERATURE 14.2°

Relinquished by:	Date	Time	Received by:	Remarks:
John Cutts / Kiff Analytical	031802	1404	3-18-02 1404	*FERROUS IRON WAS FIELD FILTERED INTO NP AMBER "F" DENOTED ON SAMPLE LABEL BLACK CAPS
Relinquished by:	Date	Time	Received by:	
Relinquished by:	Date	Time	Received by Laboratory:	Bill to:

Distribution: White - Lab, Yellow - File, Pink - Originator

Forms/coc 121001.fm9

EQUIVA Services LLC Chain Of Custody Record

Lab Identification (if necessary):

Address:

City, State, Zip:

Equiva Project Manager to be invoiced: Karen Petryna

☑ SCIENCE & ENGINEERING ☐ TECHNICAL SERVICES ☐ CRMT HOUSTON

2-5399

INCIDENT NUMBER (S&E ONLY): 98995746

SAP or CRMT NUMBER (TS/CRMT):

DATE: 3/18/02

PAGE: 1 of 1

SAMPLING COMPANY	LOG CODE	SITE ADDRESS (Street and City)	GLOBAL ID NO.
Blaine Tech Services	BTSS	4411 Foothill Boulevard, Oakland	T0600101065

ADDRESS: 1680 Rogers Avenue, San Jose, CA 95112

PROJECT CONTACT (Hardcopy or PDF Report to): Leon Gearhart

TELEPHONE: 408-573-0555 | FAX: 408-573-7771 | E-MAIL: lgearhart@blainetech.com

EDF DELIVERABLE TO (Responsible Party or Designee): Anni Kreml | PHONE NO.: 510-420-3335 | E-MAIL: ShellOaklandEDF@cambria-env.com | CONSULTANT PROJECT NO.: BTS # 020318SO-2

SAMPLER NAME(S) (Print): Shawn O'Bryan

LAB USE ONLY

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

☐ LA - RWQCB REPORT FORMAT ☐ UST AGENCY:

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

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

Fax A copy of COC to Leon Gearhart @ 408-573-7771.

REQUESTED ANALYSIS

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	TPH - Gas, Purgeable	BTEX	MTBE (8021B - 5ppb RL)	MTBE (8260B - 0.5ppb RL)	Oxygenates (5) by (8260B)	Ethanol (8260B)	Methanol	1,2-DCA (8260B)	EDB (8260B)	TPH - Diesel, Extractable (8015m)	Nitrate	Sulfate	Ferrous Iron	MTBE (8260B) Confirmation, See Note
01	S-1	3/18/02	1114	W	8	X	X	X							X	X	X	X	
02	S-2	↓	1146	↓	↓	X	X	X							X	X	X	X	
03	S-3	↓	1224	↓	↓	X	X	X							X	X	X	X	

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

Ferrous Iron was Field Filtered into NP Amber. "F" Denoted on Sample label. Black Caps

TEMPERATURE ON RECEIPT C°

	Relinquished by: (Signature)	Received by: (Signature)	Date	Time
	Relinquished by: (Signature)	Received by: (Signature)	Date	Time
	Relinquished by: (Signature)	Received by: (Signature)	Date	Time
		John Cantrell Kiff Analytical	031802	1257

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

10/16/00 Revision

O&D Graphic (714) 848-0700

KIFF ANALYTICAL LLC

Report Number : 25698
Date : 4/11/2002

Leon Gearhart
Blaine Tech Services
1680 Rogers Avenue
San Jose, CA 95112-1105

Subject : 1 Water Sample
Project Name : 4411 Foothill Boulevard, Oakland
Project Number : 020329-DA-2
P.O. Number : 98995746

Dear Mr. Gearhart,

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,

Joel Kiff

Joel Kiff

KIFF ANALYTICAL LLC

Report Number : 25698

Date : 4/11/2002

Project Name : **4411 Foothill Boulevard, Oakland**

Project Number : **020329-DA-2**

Sample : **S-4** Matrix : Water Lab Number : 25698-01

Sample Date :3/29/2002

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**1700**	5.0	ug/L	EPA 8260B	4/10/2002
Toluene	**30**	5.0	ug/L	EPA 8260B	4/10/2002
Ethylbenzene	**280**	5.0	ug/L	EPA 8260B	4/10/2002
Total Xylenes	**250**	5.0	ug/L	EPA 8260B	4/10/2002
Methyl-t-butyl ether (MTBE)	**960**	50	ug/L	EPA 8260B	4/10/2002
TPH as Gasoline	**14000**	500	ug/L	EPA 8260B	4/10/2002
Toluene - d8 (Surr)	99.6		% Recovery	EPA 8260B	4/10/2002
4-Bromofluorobenzene (Surr)	99.8		% Recovery	EPA 8260B	4/10/2002

Approved By: Joel Kiff

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

Report Number : 25698

Date : 4/11/2002

QC Report : Method Blank Data

Project Name : **4411 Foothill Boulevard, Oakland**

Project Number : **020329-DA-2**

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	4/3/2002
Toluene	< 0.50	0.50	ug/L	EPA 8260B	4/3/2002
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	4/3/2002
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	4/3/2002
Methyl-t-butyl ether (MTBE)	< 5.0	5.0	ug/L	EPA 8260B	4/3/2002
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	4/3/2002
Toluene - d8 (Surr)	98.4		%	EPA 8260B	4/3/2002
4-Bromofluorobenzene (Surr)	100		%	EPA 8260B	4/3/2002

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed

Approved By: Joel Kiff

KIFF ANALYTICAL, LLC

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

Report Number : 25698

QC Report : Matrix Spike/ Matrix Spike Duplicate

Date : 4/11/2002

Project Name : **4411 Foothill Boulevard,**

Project Number : **020329-DA-2**

Parameter	Spiked Sample	Sample Value	Spike Level	Spike Dup. Level	Spiked Sample Value	Duplicate Spiked Sample Value	Units	Analysis Method	Date Analyzed	Spiked Sample Percent Recov.	Duplicate Spiked Sample Percent Recov.	Relative Percent Diff.	Spiked Sample Percent Recov. Limit	Relative Percent Diff. Limit
Benzene	25685-01	<0.50	20.0	20.0	16.5	17.1	ug/L	EPA 8260B	4/3/02	82.4	85.7	3.96	70-130	25
Toluene	25685-01	<0.50	20.0	20.0	16.8	17.3	ug/L	EPA 8260B	4/3/02	84.0	86.8	3.22	70-130	25
Tert-Butanol	25685-01	<5.0	100	99.9	93.6	93.7	ug/L	EPA 8260B	4/3/02	93.6	93.8	0.187	70-130	25
Methyl-t-Butyl Ether	25685-01	<0.50	20.0	20.0	14.6	15.3	ug/L	EPA 8260B	4/3/02	73.2	76.8	4.87	70-130	25

Approved By: Joel Kiff

KIFF ANALYTICAL, LLC

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

Report Number : 25698

QC Report : Laboratory Control Sample (LCS)

Date : 4/11/2002

Project Name : **4411 Foothill Boulevard,**

Project Number : **020329-DA-2**

Parameter	Spike Level	Units	Analysis Method	Date Analyzed	LCS Percent Recov.	LCS Percent Recov. Limit
Benzene	20.0	ug/L	EPA 8260B	4/3/02	86.3	70-130
Toluene	20.0	ug/L	EPA 8260B	4/3/02	89.1	70-130
Tert-Butanol	100	ug/L	EPA 8260B	4/3/02	94.1	70-130
Methyl-t-Butyl Ether	20.0	ug/L	EPA 8260B	4/3/02	74.0	70-130

Approved By: Joel Kiff

KIFF ANALYTICAL, LLC

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

Sequoia Analytical

1455 McDowell Blvd, North Ste D
Petaluma, CA 94954
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2 April, 2002

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

RE: General
Sequoia Work Order: P203671

Enclosed are the results of analyses for samples received by the laboratory on 03/29/02 12:41. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Angelee Cari

Angelee Cari
Client Services Representative

CA ELAP Certificate #2374

Sequoia Analytical

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Petaluma, CA 94954
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Kiff Analytical	Project: General	
720 Olive Drive, Suite D	Project Number: [none]	**Reported:**
Davis CA, 95616	Project Manager: Joel Kiff	04/02/02 17:59

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
S-4	P203671-01	Water	03/29/02 11:09	03/29/02 12:41

Sequoia Analytical - Petaluma

Angelee Cari

Angelee Cari, Client Services Representative

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.

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Kiff Analytical	Project: General	
720 Olive Drive, Suite D	* Project Number: [none]	**Reported:**
Davis CA, 95616	Project Manager: Joel Kiff	04/02/02 17:59

Conventional Chemistry Parameters by APHA/EPA Methods

Sequoia Analytical - Petaluma

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
S-4 (P203671-01) Water Sampled: 03/29/02 11:09 Received: 03/29/02 12:41									
Ferrous Iron	**170**	100	ug/l	1	2040076	03/29/02	03/29/02	SM 3500 Fe D#4	

Sequoia Analytical

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Kiff Analytical	Project: General	
720 Olive Drive, Suite D	Project Number: [none]	**Reported:**
Davis CA, 95616	Project Manager: Joel Kiff	04/02/02 17:59

Anions by EPA Method 300.0

Sequoia Analytical - Petaluma

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
S-4 (P203671-01) Water Sampled: 03/29/02 11:09 Received: 03/29/02 12:41									
Nitrate as N	ND	200	ug/l	1	2030718	03/29/02	03/29/02	EPA 300.0	
Sulfate as SO4	**4600**	1000	"	"	"	"	"	"	

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Kiff Analytical	Project: General	
720 Olive Drive, Suite D	Project Number: [none]	**Reported:**
Davis CA, 95616	Project Manager: Joel Kiff	04/02/02 17:59

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2040076 - General Preparation										
Blank (2040076-BLK1)				Prepared & Analyzed: 03/29/02						
Ferrous Iron	ND	100	ug/l							
LCS (2040076-BS1)				Prepared & Analyzed: 03/29/02						
Ferrous Iron	669	100	ug/l	800		84	80-120			
Matrix Spike (2040076-MS1)	Source: P203671-01			Prepared & Analyzed: 03/29/02						
Ferrous Iron	1840	100	ug/l	870	170	192	75-125			QM-07
Matrix Spike Dup (2040076-MSD1)	Source: P203671-01			Prepared & Analyzed: 03/29/02						
Ferrous Iron	1880	100	ug/l	870	170	197	75-125	2	20	QM-07

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Kiff Analytical	Project: General	
720 Olive Drive, Suite D	Project Number: [none]	**Reported:**
Davis CA, 95616	Project Manager: Joel Kiff	04/02/02 17:59

Anions by EPA Method 300.0 - Quality Control

Sequoia Analytical - Petaluma

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2030718 - General Preparation										
Blank (2030718-BLK1)				Prepared & Analyzed: 03/29/02						
Nitrate as N	ND	200	ug/l							
Sulfate as SO4	ND	1000	"							
LCS (2030718-BS1)				Prepared & Analyzed: 03/29/02						
Nitrate as N	9920	200	ug/l	10000		99	90-110			
Sulfate as SO4	10400	1000	"	10000		104	90-110			
Matrix Spike (2030718-MS1)		**Source: P203440-06**		Prepared & Analyzed: 03/29/02						
Nitrate as N	10500	400	ug/l	10000	ND	103	80-120			
Sulfate as SO4	15300	2000	"	10000	4300	110	80-120			
Matrix Spike Dup (2030718-MSD1)		**Source: P203440-06**		Prepared: 03/29/02 Analyzed: 03/30/02						
Nitrate as N	10600	400	ug/l	10000	ND	104	80-120	0.9	20	
Sulfate as SO4	15200	2000	"	10000	4300	109	80-120	0.7	20	

Sequoia Analytical

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Kiff Analytical	Project: General	
720 Olive Drive, Suite D	Project Number: [none]	**Reported:**
Davis CA, 95616	Project Manager: Joel Kiff	04/02/02 17:59

Notes and Definitions

QM-07	The spike recovery was outside control limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
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

KIFF ANALYTICAL LLC

720 Olive Drive, Suite D
Davis, CA 95616
Lab: 530.297.4800
Fax: 530.297.~~4803~~ 4808

Lab No: 25698 Page 1 of 1

Chain-of-Custody Record and Analysis Request

Project Contact (Hardcopy or PDF To): Joel Kiff

Company/Address: 720 Olive Dr. Davis, Ca.

Phone No.: (530)297-4800 FAX No.: (530)297-4808

Project Number: —

P.O. No: 25698

Project Address: 4411 FOOTHILL BOULEVARD, OAKLAND

Project Name: 4411 FOOTHILL BOULEVARD, OAKLAND

EDF Report? ☒ Yes ☐ No

Recommended but not mandatory to complete this section:

Sampling Company Log Code: . . .

Global ID: T-0-6-0-0-1-0-1065

EDF Deliverable To (Email Address): INBOX@KIFFANALYTICAL.COM

Sampler Signature:

Sample Designation	Sampling Date	Sampling Time	Container: 40 ml VOA	Container: SLEEVE	Container: Poly	Container: AMBER	Preservative: HCl	Preservative: HNO_3	Preservative: ICE	Preservative: NONE	Matrix: WATER	Matrix: SOIL	Analysis Request: BTEX (8021B)	BTEX/TPH Gas/MTBE (8021B/M8015)	TPH as Diesel (M8015)	TPH as Motor Oil (M8015)	TPH Gas/BTEX/MTBE (8260B)	5 Oxygenates/TPH Gas/BTEX (8260B)	7 Oxygenates/TPH Gas/BTEX (8260B)	5 Oxygenates (8260B)	7 Oxygenates (8260B)	Lead Scav. (1,2 DCA & 1,2 EDB - 8260B)	EPA 8260B (Full List)	Volatile Halocarbons (EPA 8260B)	Lead (7421/239.2)	TOTAL (X) W.E.T. (X)	NITRATE	SULFATE	FERROUS IRON
S-4	03/29	1109			1	1							P2C3671-01														X	X	X

CUSTODY SEALS INTACT ☐
NOT INTACT ☐
COOLER TEMPERATURE 16.4 °C

TAT: 12 hr/24 hr/48 hr/72 hr/1 wk

For Lab Use Only

Relinquished by:	Date	Time	Received by:
John Curtis / Kiff Analytical	03/30/02	241	Joel Kiffmeyer
Relinquished by:	Date	Time	Received by:
Relinquished by:	Date	Time	Received by Laboratory:

Remarks: FERROUS IRON FIELD FILTERED

Bill to:

Distribution: White - Lab, Yellow - File, Pink - Originator

Forms/coc 121001.fh9

LAB: Kiff

EQUIVA Services LLC Chain Of Custody Record

Lab Identification (if necessary):

Address:

City, State, Zip:

Equiva Project Manager to be invoiced: Karen Petryna

☑ SCIENCE & ENGINEERING ☐ TECHNICAL SERVICES ☐ CRMT HOUSTON

25698

INCIDENT NUMBER (S&E ONLY): 9 8 9 9 5 7 4 6

SAP or CRMT NUMBER (TS/CRMT):

DATE: 3/29/02

PAGE: 1 of 1

SAMPLING COMPANY	LOG CODE	SITE ADDRESS (Street and City)	GLOBAL ID NO.
Blaine Tech Services	BTSS	4411 Foothill Boulevard, Oakland	T0600101065

ADDRESS	EDF DELIVERABLE TO (Responsible Party or Designee)	PHONE NO.	E-MAIL	CONSULTANT PROJECT NO.
1680 Rogers Avenue, San Jose, CA 95112	Anni Kreml	510-420-3335	ShellOaklandEDF@cambria-env.com	BTS # 020329-DA-2

PROJECT CONTACT (Hardcopy or PDF Report to)	TELEPHONE	FAX	E-MAIL
Leon Gearhart	408-573-0555	408-573-7771	lgearhart@blainetech.com

SAMPLER NAME(S) (Print): David Allbut

LAB USE ONLY

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

☐ LA - RWQCB REPORT FORMAT ☐ UST AGENCY: _____

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

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

REQUESTED ANALYSIS

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	TPH - Gas, Purgeable	BTEX	MTBE (8021B - 5ppb RL)	MTBE (8260B - 0.5ppb RL)	Oxygenates (5) by (8260B)	Ethanol (8260B)	Methanol	1,2-DCA (8260B)	EDB (8260B)	TPH - Diesel, Extractable (8015m)	Nitrate	Sulfate	Ferrous Iron	MTBE (8260B) Confirmation, See Note
	S-4	3/29/02	1109	W	5	X	X	X								X	X	X	

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

TEMPERATURE ON RECEIPT C°

Ferrous Iron Field - Filtered

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
David Allbut			
	John Cuttle/Kiff Analytical	032902	1155

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

10/16/00 Revision

WELL GAUGING DATA

Project # 020329-DA-1 Date 3/29/07 Client Equiva

Site 4411 Foothill Blvd Oakland, CA 94611

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	
S-4*						8.49	20.19	TOC	
* Gauged	toc	as	well box	is	nearly	destroyed.			
	Estimate	d.tw	TOB	=		8.79	←	TOB	

EQUIVA WELL MONITORING DATA SHEET

BTS #: 020329-DA-2	Site: 4411 Foothill blvd
Sampler: David A.	Date: 3/29/02
Well I.D.: S-4	Well Diameter: 2 3 (4) 6 8 ___
Total Well Depth: 20.19	Depth to Water: 8.49
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; X Electric Submersible; Waterra; Peristaltic; Extraction Pump; Other ___

Sampling Method: X Bailer; Disposable Bailer; Extraction Port; Dedicated Tubing; Other: ___

7.6 (Gals.) X 3 = 22.8 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
1102	62.6	7.2	1335	>200	8	cloudy, grey, odor
1109	61.9	7.2	1283	>200	16	less grey
1105	62.5	7.2	1318	>200	24	

Did well dewater? Yes (No) Gallons actually evacuated: 24

Sampling Time: 1109 Note: Reaction in Amber Sampling Date: 3/29/02

Sample I.D.: S-4 Laboratory: (Kiff) Sequoia Other ___

Analyzed for: ~~TPH-G BTEX MTBE~~ TPH-D Other: Nitrate, Sulfate, Ferrous Iron

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:	3.0 mg/L	Post-purge:	3.1	mg/L
O.R.P. (if req'd):	Pre-purge:	-55 mV	Post-purge:	-74	mV

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WELL GAUGING DATA

Project # 020316-502 Date 3-18-02 Client EQUILON

Site 4411 FOOTHILL BLVD, 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	
*	S-1	4					5.08	24.58	TOB	
*	S-2	4	STINGER				9.91	27.34		
	S-3	4					7.03	20.47		
	S-4	4					8.75	20.19	↓	
	* GAUGED W/ ORC'S IN WELL									

EQUIVA WELL MONITORING DATA SHEET

BTS #: 020318-SD-2	Site: 98995746
Sampler: D Bryan	Date: 3/18/02
Well I.D.: S-1	Well Diameter: 2 3 (4) 6 8 ___
Total Well Depth: 24.58	Depth to Water: 5.08
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: ____

12.7 (Gals.) X 3 = 38.1 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
1107	60.7	8.8	963	168	20	
1108	62.1	9.0	918	136	30	
1109	62.1	9.2	914	120	40	

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

Sampling Time: 1114 Sampling Date: 3/18/02

Sample I.D.: S-1 Laboratory: ~~Kiff~~ Sequoia Other ____

Analyzed for: (TPH-G) (BTEX) (MTBE) (TPH-D) Other: Nitrate, Sulfate, Ferrous Iron

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:~~	5.6	mg/L	~~Post-purge:~~	6.1 mg/L
O.R.P. (if req'd):	Pre-purge:	93	mV	Post-purge:	45 mV

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EQUIVA WELL MONITORING DATA SHEET

BTS #: 020318-SO-2	Site: 98995746
Sampler: O Bowman	Date: 3/18/02
Well I.D.: S-2	Well Diameter: 2 3 (4) 6 8 ___
Total Well Depth: 22.34	Depth to Water: 9.91
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: ____

8.6 (Gals.) X 3 = 24 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
1159	64.6	7.9	1304	>200	10	
1140	66.3	7.6	1349	>200	20	cloudy
1141	66.9	7.8	1360	>200	25	"

Did well dewater? Yes (No) Gallons actually evacuated: 25

Sampling Time: 1146 Sampling Date: 3/18/02

Sample I.D.: S-2 Laboratory: ~~Kiff~~ Sequoia Other ____

Analyzed for: (TPH-G) (BTEX) (MTBE) (TPH-D) Other: Nitrate, Sulfate, Ferrous Iron

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:	0.9	mg/L	Post-purge:	4.2 mg/L
O.R.P. (if req'd):	Pre-purge:	50	mV	Post-purge:	43 mV

EQUIVA WELL MONITORING DATA SHEET

BTS #: 020318-SO-2	Site: 98995746
Sampler: O Bowyer	Date: 3/18/02
Well I.D.: S-3	Well Diameter: 2 3 (4) 6 8
Total Well Depth: 20.47	Depth to Water: 7.03
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:_____

8.7 (Gals.) X 3 = 26.1 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
1216	66.3	7.3	530	111	10	
1217	64.7	6.8	457	78	20	
1218	64.8	6.7	513	37	30	

Did well dewater? Yes (No) Gallons actually evacuated: 30

Sampling Time: 1224 Sampling Date: 3/18/02

Sample I.D.: S-3 Laboratory: ~~Kiff~~ Sequoia Other_____

Analyzed for: (TPH-G) (BTEX) (MTBE) (TPH-D) Other: Nitrate, Sulfate, Ferrous Iron

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:~~	1.7 mg/L
O.R.P. (if req'd):	~~Pre-purge:~~	15	mV	~~Post-purge:~~	31 mV

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EQUIVA WELL MONITORING DATA SHEET

BTS #: 020318-SO-2	Site: 98995746
Sampler: O Bowman	Date: 3/18/02
Well I.D.: S-4	Well Diameter: 2 3 (4) 6 8 ___
Total Well Depth: 20.19	Depth to Water: 8.75
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, Peristaltic, Extraction Pump, Other_____

Sampling Method: Bailer, Disposable Bailer, Extraction Port, Dedicated Tubing, Other: _____

_____(Gals.) X _____ = _____ 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
	Muddy around well location.					
	Unable to sample.					

Did well dewater? Yes No — Gallons actually evacuated:

Sampling Time: — Sampling Date: 3/18/02

Sample I.D.: — Laboratory: Kiff Sequoia Other_____

Analyzed for: TPH-G BTEX MTBE TPH-D — Other: Nitrate, Sulfate, Ferrous Iron

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