CONESTOGA-ROVERS & ASSOCIATES

5900 Hollis Street, Suite A
Emeryville, California 94608
Telephone: (510) 420-0700 Fax: (510) 420-9170
www.CRAworld.com

TRANSMITTAL

DATE: January 5, 2010

REFERENCE NO.: 240897

PROJECT NAME: 4411 Foothill Boulevard, Oakland

TO: Jerry Wickham
Alameda County Environmental Health
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502-6577

RECEIVED
9:11 am, Jan 06, 2010
Alameda County
Environmental Health

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QUANTITY	DESCRIPTION
1	Groundwater Monitoring Report - Third Quarter 2009

- ☐ As Requested
- ☐ For Your Use
- ☒ For Review and Comment
- ☐
- ☐

COMMENTS:
If you have any questions regarding the contents of this document, please call Peter Schaefer at (510) 420-3319.

Copy to: Denis Brown, Shell Oil Products US, 20945 S. Wilmington Avenue, Carson, CA 90810
Bill Phua, Foothill Blvd. LLC, P.O. Box 10664, Oakland, CA 94610

Completed by: Peter Schaefer Signed: Peter Schaefer

Filing: **Correspondence File**

Denis L. Brown
Shell Oil Products US
HSE - Environmental Services
20945 S. Wilmington Ave.
Carson, CA 90810-1039
Tel (707) 865 0251
Fax (707) 865 2542
Email denis.l.brown@shell.com

Jerry Wickham
Alameda County Environmental Health
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502-6577

Re: Former Shell Service Station
4411 Foothill Boulevard
Oakland, California
SAP Code 135686
Incident No. 98995746
Agency Site No. RO0000415

Dear Mr. Wickham:

The attached document is provided for your review and comment. Upon information and belief, I declare, under penalty of perjury, that the information contained in the attached document is true and correct.

If you have any questions or concerns, please call me at (707) 865-0251.

Sincerely,

Denis L. Brown
Project Manager

GROUNDWATER MONITORING REPORT - THIRD QUARTER 2009

FORMER SHELL SERVICE STATION
4411 FOOTHILL BOULEVARD
OAKLAND, CALIFORNIA

SAP CODE	135686
INCIDENT NO.	98995746
AGENCY NO.	RO0000415

Prepared by:
Conestoga-Rovers & Associates

5900 Hollis Street, Suite A
Emeryville, California
U.S.A. 94608

Office: (510) 420-0700
Fax: (510) 420-9170

web: http://www.CRAworld.com

JANUARY 5, 2010
REF. NO. 240897 (9)
This report is printed on recycled paper.

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LIST OF FIGURES
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LIST OF APPENDICES

1.0 INTRODUCTION

Conestoga-Rovers & Associates (CRA) prepared this report on behalf of Equilon Enterprises LLC dba Shell Oil Products US (Shell) in accordance with the quarterly reporting requirements of 23 CCR 2652d.

1.1 SITE INFORMATION

Site Address	4411 Foothill Boulevard, Oakland
Site Use	Strip Mall
Shell Project Manager	Denis Brown
CRA Project Manager	Peter Schaefer
Lead Agency and Contact	ACEH, Jerry Wickham
Agency Case No.	RO0000415
Shell SAP Code	135686
Shell Incident No.	98995746

Date of most recent agency correspondence was August 7, 2009.

2.0 SITE ACTIVITIES, FINDINGS, AND DISCUSSION

2.1 CURRENT QUARTER'S ACTIVITIES

Blaine Tech Services, Inc. (Blaine) developed, gauged, and sampled new off-site wells S-10 through S-12 and gauged on-site wells S-6 through S-9 according to the established monitoring program for this site.

CRA prepared a vicinity map (Figure 1) and a groundwater contour and chemical concentration map (Figure 2). Blaine's report, presenting the analytical data, is included in Appendix A.

As requested in Alameda County Environmental Health's (ACEH's) August 7, 2009 letter, CRA implemented the off-site portion of our July 27, 2007 *Soil Gas Survey and Groundwater Assessment Work Plan* associated with the 4340 Bond Street property, which

included installing a soil vapor probe (V-1) and three groundwater monitoring wells (S-10 through S-12) during August 2009.

Per ACEH's August 7, 2009 letter, CRA decommissioned sub-slab vapor probes SSV-1 and SSV-2 on September 1, 2009.

2.2 CURRENT QUARTER'S FINDINGS

Groundwater Flow Direction	Northerly to northwesterly
Hydraulic Gradient	0.01
Depth to Water	3.62 to 6.70 feet below top of well casing

2.3 PROPOSED ACTIVITIES

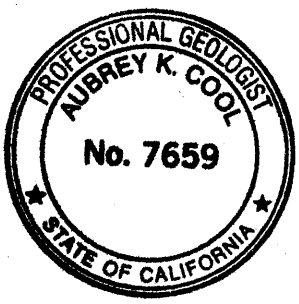
CRA submitted a *Subsurface Investigation Report*, describing the sub-slab vapor probe destruction and installation of off-site groundwater monitoring wells and soil vapor probes on January 5, 2010.

CRA will sample off-site monitoring wells S-10 through S-12 quarterly and wells S-6 through S-9 semiannually for one hydrologic cycle (1 year, through the second quarter of 2010) and then, as approved in ACEH's July 24, 2009 letter, we will implement a semiannual monitoring and reporting schedule at the site, with sampling conducted during the second and fourth quarters.

All of Which is Respectfully Submitted,
CONESTOGA-ROVERS & ASSOCIATES

Peter Schaefer, CHG, CEG

Aubrey K. Cool, PG



FIGURES

11/03/08

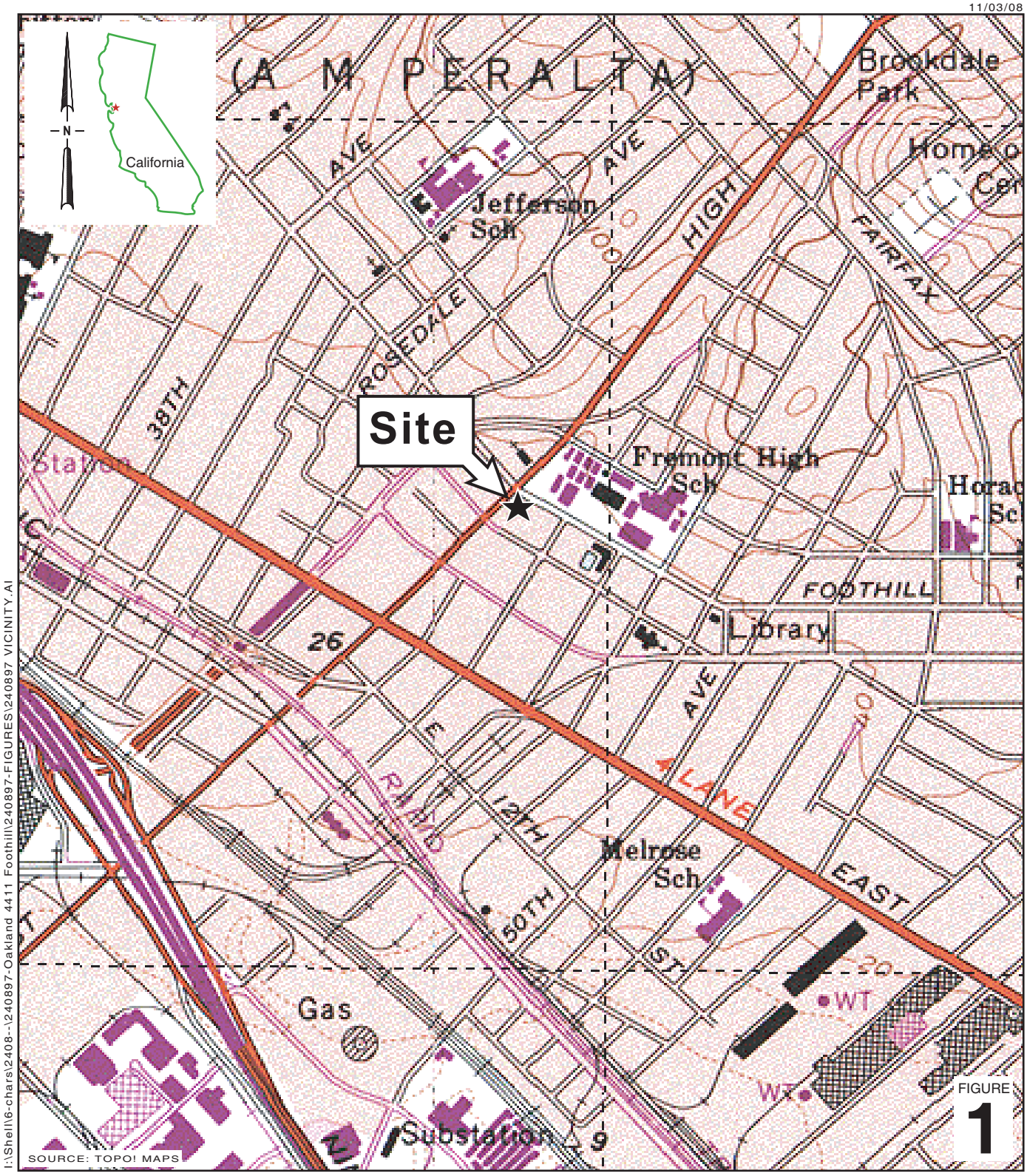


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FIGURE 1

0 1/6 1/3 1/2 1

SCALE : 1" = 1/6 MILE

Former Shell Service Station
4411 Foothill Boulevard
Oakland, California

CONESTOGA-ROVERS & ASSOCIATES

Vicinity Map

01/04/10

Groundwater Contour and Chemical Concentration Map

September 29, 2009

HIGH STREET

FOOTHILL BOULEVARD

4411 Foothill

Former Shell Station
4411 Foothill

BLDG. A

Wood Moulding & Doors
4413 Foothill

Laundromat

BW-A

SSV-2

SSV-1

S-2

S-5

S-6
31.16
NS

S-8
31.23
NS

V-1

V-2

V-3

V-4

V-5

V-6

V-7

V-8

V-9

V-10

V-11

V-12

S-1

S-3

S-4

S-7
31.44
NS

S-9
32.01
NS

S-10
32.36
ND
ND

S-11
32.56
ND
ND

S-12
32.38
ND
ND

31.25

31.75

32.25

4415 Foothill

4417 Foothill

BLDG. B

4419 Foothill

Jackson & Hewitt Tax Services
4421 Foothill

Nails & Spa
4423 Foothill

Former Building

Restaurant

Parking Lot

Parking Lot

Residential
1724 High St.

Residential
4320 Bond St.

4340 Bond St.

Planter

Trash Encl.

E

Sump

N

0 10 20 40

Scale (ft)

EXPLANATION

- S-6 — Monitoring well location
- V-1 — Soil vapor probe location
- SSV-1 — Destroyed sub-slab soil vapor probe location
- S-1 — Destroyed monitoring well location
- BW-A — Destroyed tank backfill well location
- Electrical line (E)
- Telecommunications line (T)
- Gas line (GAS)
- Water line (W)
- Sanitary Sewer line (SAN)
- Storm drain line (STM)
- Unknown utility line
- Fire hydrant
- Catch basin
- Manhole
- Power pole
- Flow direction
- x.xx — Groundwater flow direction and gradient
- XX.XX — Groundwater elevation contour, in feet above mean sea level (msl)
- Well designation
- ELEV. — Groundwater elevation, in feet above msl
- Benzene / MTBE — Benzene and MTBE concentrations are in parts per micrograms per liter

Notes:
ND = Not detected
NS = Not sampled

FIGURE

2

Former Shell Service Station
4411 Foothill Boulevard
Oakland, California

CONESTOGA-ROVERS & ASSOCIATES

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FIGURES

APPENDIX A

BLAINE TECH SERVICES, INC. - GROUNDWATER MONITORING REPORT

BLAINE
TECH SERVICES INC.

GROUNDWATER SAMPLING SPECIALISTS
SINCE 1985

October 30, 2009

Denis Brown
Shell Oil Products US
20945 South Wilmington Avenue
Carson, CA 90810

Third Quarter 2009 Groundwater Monitoring at
Former Shell Service Station
4411 Foothill Boulevard
Oakland, CA

Monitoring performed on September 22, 25, and 29, 2009

Groundwater Monitoring Report **090929-DM-1**

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

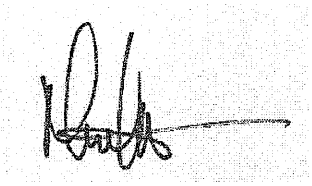
Basic field information is presented alongside analytical values excerpted from the laboratory report in the cumulative table of **WELL CONCENTRATIONS**. The full analytical report for the most recent samples and the field data sheets are attached to this report.

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

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



Mike Ninokata
Project Manager

MN/tm

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

cc: Anni Kreml
Conestoga-Rovers & Associates
5900 Hollis Street, Suite A
Emeryville, CA 94608

WELL CONCENTRATIONS
Former Shell Service Station
4411 Foothill Boulevard
Oakland, CA

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)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	1,2-DCA (ug/L)	EDB (ug/L)	TOC (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	NA	NA	NA	NA	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	NA	NA	NA	NA	NA	NA	38.31	NA	NA	NA
S-1	05/28/1993	NA	NA	NA	NA	NA	NA	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	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	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	NA	NA	NA	NA	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	NA	NA	NA	NA	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	NA	NA	NA	NA	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	NA	NA	NA	NA	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	NA	NA	NA	NA	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	NA	NA	NA	NA	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	NA	NA	NA	NA	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	NA	NA	NA	NA	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	NA	NA	NA	NA	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	NA	NA	NA	NA	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	NA	NA	NA	NA	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	NA	NA	NA	NA	NA	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	NA	NA	NA	NA	NA	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	NA	NA	NA	NA	NA	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	NA	NA	NA	NA	NA	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	NA	NA	NA	NA	NA	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	NA	NA	NA	NA	NA	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	NA	NA	NA	NA	NA	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	NA	NA	NA	NA	NA	NA	38.31	6.96	31.35	NA
S-1	03/16/1998	25,000	2,500	250	820	670	5,000	<125	NA	NA	NA	NA	NA	NA	NA	38.31	6.00	32.31	NA
S-1 (D)	03/16/1998	26,000	NA	250	840	720	5,100	<125	NA	NA	NA	NA	NA	NA	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	NA	NA	NA	NA	NA	NA	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	NA	NA	NA	NA	NA	NA	38.31	9.17	29.14	1.4/2.6
S-1	12/30/1998	29,900	1,970	174	732	1,680	5,740	182	NA	NA	NA	NA	NA	NA	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	NA	NA	NA	NA	NA	NA	38.31	6.10	32.21	1.2/1.8
S-1	03/31/1999	NA	NA	NA	NA	NA	NA	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	NA	NA	NA	NA	NA	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	NA	NA	NA	NA	NA	NA	38.31	10.04	28.27	4.3/2.0
S-1	12/22/1999	2,450	444 a	50.2	97.5	139	458	133	NA	NA	NA	NA	NA	NA	NA	38.31	9.42	28.89	1.8/2.3

WELL CONCENTRATIONS
Former Shell Service Station
4411 Foothill Boulevard
Oakland, CA

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)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	1,2-DCA (ug/L)	EDB (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	DO Reading (ppm)
S-1	03/09/2000	1,230 d	1,200 a	21.2 d	115 d	116 d	411 d	45.1 d	NA	NA	NA	NA	NA	NA	NA	38.30	6.21	32.09	2.0/2.9
S-1	06/20/2000	755	352 a	26.0	48.4	43.1	230	71.5	NA	NA	NA	NA	NA	NA	NA	38.30	9.18	29.12	2.0/2.4
S-1	09/05/2000	2,980	783 a	43.5	117	168	871	192	NA	NA	NA	NA	NA	NA	NA	38.30	10.14	28.16	0.6/0.3
S-1	12/04/2000	399	238 a	5.34	14.6	36.2	106	24.9	NA	NA	NA	NA	NA	NA	NA	38.30	10.10	28.20	8.6/9.8
S-1	12/12/2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	38.30	9.22	29.08	NA
S-1	03/08/2001	2,940	1,390 a	49.6	52.9	21.8	749	87.6	NA	NA	NA	NA	NA	NA	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	NA	NA	NA	NA	NA	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	NA	NA	NA	NA	NA	NA	38.30	10.25	28.05	7.8/8.9
S-1	11/19/2001	1,400	<300	14	42	110	260	NA	27	NA	NA	NA	NA	NA	NA	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	NA	NA	NA	NA	NA	NA	38.30	5.08	33.22	5.6/6.1
S-1	06/19/2002	1,000	180	4.7	36	68	250	NA	14	NA	NA	NA	NA	NA	NA	38.30	9.26	29.04	NA
S-1	09/11/2002	2,100	<350	8.1	68	180	820	NA	7.1	NA	NA	NA	NA	NA	NA	38.30	10.54	27.76	6.5
S-1	12/11/2002	4,100	<500	16	93	310	900	NA	<20	NA	NA	NA	NA	NA	NA	38.04	9.97	28.07	8.0
S-1	03/11/2003	14,000	<1,600	71	470	1,000	3,300	NA	<50	NA	NA	NA	NA	NA	NA	38.04	7.31	30.73	5.2
S-1	06/10/2003	1,700	110 a	7.7	44	190	340	NA	4.5	NA	NA	NA	NA	NA	NA	38.04	8.14	29.90	14.0
S-1	09/09/2003	3,200	96 a	11	110	350	1,100	NA	5.8	NA	NA	NA	NA	NA	NA	38.04	9.31	28.73	7.5
S-1	12/09/2003	6,000	1,000 a	20	170	530	1,700	NA	6.1	NA	NA	NA	NA	NA	NA	38.04	7.24	30.80	28.6
S-1	03/09/2004	390	300 a	5.8	30	67	160	NA	5.6	NA	NA	NA	NA	NA	NA	38.04	5.56	32.48	6.4
S-1	06/08/2004	5,600	2,500 a	11	140	660	1,900	NA	5.0	NA	NA	NA	NA	NA	NA	38.04	8.82	29.22	30.0
S-1	09/07/2004	<50	130 i	<0.50	<0.50	<0.50	<1.0	NA	0.75	<2.0	<2.0	<2.0	<5.0	NA	NA	38.04	9.84	28.20	14.4
S-1	12/06/2004	Unable to sample		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	38.04	9.20	28.84	NA
S-1	12/15/2004	560	120 i	2.2	26	67	220	NA	1.4	NA	NA	NA	NA	NA	NA	38.04	5.39	32.65	31.7
S-1	03/07/2005	12,000	460 i	12	310	830	2,600	NA	<5.0	NA	NA	NA	NA	NA	NA	38.04	5.77	32.27	16.1
S-1	06/10/2005	13,000	1,200 i	25	310	1,200	3,300	NA	<10	NA	NA	NA	NA	NA	NA	38.04	5.39	32.65	0.17
S-2	05/28/1993	NA	NA	NA	NA	NA	NA	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	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	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	NA	NA	NA	NA	NA	NA	38.79	NA	NA	NA
S-2	09/21/1993	3,300	NA	870	24	190	120	NA	NA	NA	NA	NA	NA	NA	NA	38.79	10.54	28.25	NA
S-2	12/14/1993	1,300	NA	400	16	36	27	NA	NA	NA	NA	NA	NA	NA	NA	38.79	9.76	29.03	NA
S-2	03/17/1994	4,500	NA	610	27	92	110	NA	NA	NA	NA	NA	NA	NA	NA	38.79	9.92	28.87	NA
S-2 (D)	03/17/1994	4,000	NA	610	26	93	120	NA	NA	NA	NA	NA	NA	NA	NA	38.79	9.92	28.87	NA
S-2	06/16/1994	2,800	NA	690	45	97	140	NA	NA	NA	NA	NA	NA	NA	NA	38.79	10.11	28.68	NA

WELL CONCENTRATIONS
Former Shell Service Station
4411 Foothill Boulevard
Oakland, CA

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)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	1,2-DCA (ug/L)	EDB (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	DO Reading (ppm)
S-2	09/22/1994	4,000	NA	630	94	64	230	NA	NA	NA	NA	NA	NA	NA	NA	38.79	10.51	28.28	NA
S-2	12/15/1994	1,600	NA	450	300	67	130	NA	NA	NA	NA	NA	NA	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	NA	NA	NA	NA	NA	NA	38.79	7.86	30.93	NA
S-2	06/20/1995	9,600	NA	2,600	160	170	500	NA	NA	NA	NA	NA	NA	NA	NA	38.79	9.51	29.28	NA
S-2	09/20/1995	4,200	NA	920	45	98	140	NA	NA	NA	NA	NA	NA	NA	NA	38.79	10.06	28.73	NA
S-2	12/06/1995	<5,000	NA	790	67	64	130	NA	NA	NA	NA	NA	NA	NA	NA	38.79	10.52	28.27	NA
S-2	03/21/1996	3,700	NA	850	45	96	170	NA	NA	NA	NA	NA	NA	NA	NA	38.79	8.60	30.19	NA
S-2	09/06/1996	2,400	NA	500	33	39	84	490	NA	NA	NA	NA	NA	NA	NA	38.79	10.50	28.29	NA
S-2	12/19/1996	1,200	NA	330	15	24	31	430	NA	NA	NA	NA	NA	NA	NA	38.79	9.40	29.39	NA
S-2	03/17/1997	4,100	NA	780	42	110	120	2,200	NA	NA	NA	NA	NA	NA	NA	38.79	9.82	28.97	NA
S-2	06/11/1997	760	NA	120	<5.0	7.0	7.6	900	NA	NA	NA	NA	NA	NA	NA	38.79	10.18	28.61	NA
S-2	09/17/1997	1,500	NA	230	8.6	40	27	480	NA	NA	NA	NA	NA	NA	NA	38.79	9.90	28.89	NA
S-2	12/11/1997	1,300	NA	240	15	33	57	280	NA	NA	NA	NA	NA	NA	NA	38.79	8.27	30.52	NA
S-2	03/16/1998	1,100	NA	830	48	<10	<10	4,700	4,800	NA	NA	NA	NA	NA	NA	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	NA	NA	NA	NA	NA	NA	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	NA	NA	NA	NA	NA	NA	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	NA	NA	NA	NA	NA	NA	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	NA	NA	NA	NA	NA	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	NA	NA	NA	NA	NA	NA	38.79	8.41	30.38	2.1/1.8
S-2	03/31/1999	NA	NA	NA	NA	NA	NA	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	NA	NA	NA	NA	NA	NA	38.79	9.80	28.99	NA
S-2	09/30/1999	678	177 a	135	8.22	14.9	25.8	17,100	17,000 c	NA	NA	NA	NA	NA	NA	38.79	10.58	28.21	5.1/4.8
S-2	12/22/1999	316	142 a	55.8	10.1	5.26	10.4	9,410	8,810	NA	NA	NA	NA	NA	NA	38.79	10.13	28.66	9.6/5.2
S-2	03/09/2000	2,670	630 a	1,190 d	62.7	84.1	125	29,200 d	31,400 c	NA	NA	NA	NA	NA	NA	38.78	7.88	30.90	7.6/5.0
S-2	06/20/2000	<5,000	401 a	348	<50.0	50.4	127	35,800	33,900 c	NA	NA	NA	NA	NA	NA	38.78	10.27	28.51	1.9/2.2
S-2	09/05/2000	<5,000	373 a	106	<50.0	<50.0	<50.0	25,800	37,100 c	NA	NA	NA	NA	NA	NA	38.78	10.19	28.59	0.5/1.6
S-2	12/04/2000	<250	1,730 a	4.37	<2.50	<2.50	<2.50	4,500	5,130 c	NA	NA	NA	NA	NA	NA	38.78	10.30	28.48	10.6/9.4
S-2	12/12/2000	NA	NA	NA	NA	NA	NA	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	NA	NA	NA	NA	NA	NA	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	NA	NA	NA	NA	NA	NA	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	NA	NA	NA	NA	NA	NA	38.78	10.34	28.44	11.0/4.5
S-2	11/19/2001	15,000	8,700	71	27	86	330	NA	7,500	NA	NA	NA	NA	NA	NA	38.78	9.90	28.88	5.0/3.1
S-2	03/18/2002	3,700	14,000	93	<20	35	100	NA	7,500	NA	NA	NA	NA	NA	NA	38.78	9.91	28.87	0.9/4.2
S-2	06/19/2002	2,100	<2,000	92	<10	24	50	NA	4,700	NA	NA	NA	NA	NA	NA	38.78	9.98	28.80	NA

WELL CONCENTRATIONS
Former Shell Service Station
4411 Foothill Boulevard
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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)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	1,2-DCA (ug/L)	EDB (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	DO Reading (ppm)
S-2	09/11/2002	2,100	<450	54	<5.0	19	55	NA	1,900	NA	NA	NA	NA	NA	NA	38.78	10.25	28.53	3.5
S-2	12/11/2002	570	1,900	9.4	<2.5	7.2	14	NA	1,100	NA	NA	NA	NA	NA	NA	38.47	9.99	28.48	2.0
S-2	03/11/2003	2,900	<1,800	150	5.5	54	84	NA	870	NA	NA	NA	NA	NA	NA	38.47	9.25	29.22	2.4
S-2	06/10/2003	2,200	840 a	83	<5.0	22	52	NA	970	NA	NA	NA	NA	NA	NA	38.47	9.20	29.27	5.0
S-2	09/09/2003	1,200	270 a	57	<2.5	11	33	NA	740	NA	NA	NA	NA	NA	NA	38.47	9.70	28.77	3.7
S-2	12/09/2003	3,100	1,900 a	84	<5.0	45	90	NA	660	NA	NA	NA	NA	NA	NA	38.47	9.31	29.16	24.21
S-2	03/09/2004	1,600	990 a	140	<5.0	31	49	NA	610	NA	NA	NA	NA	NA	NA	38.47	8.24	30.23	2.6
S-2	06/08/2004	640	400 a	40	<2.5	4.2	6.6	NA	460	NA	NA	NA	NA	NA	NA	38.47	9.40	29.07	8.2
S-2	09/07/2004	<100	240 i	6.6	<1.0	1.3	2.3	NA	140	<4.0	<4.0	<4.0	450	NA	NA	38.47	9.78	28.69	2.4
S-2	12/06/2004	260	140 a	26	<1.0	2.0	<2.0	NA	270	NA	NA	NA	NA	NA	NA	38.47	9.45	29.02	8.5
S-2	03/07/2005	2,300	450 i	100	<5.0	11	<10	NA	570	NA	NA	NA	NA	NA	NA	38.47	7.82	30.65	16.7
S-2	06/10/2005	<2,500	550 a	200	<25	<25	<50	NA	630	NA	NA	NA	NA	NA	NA	38.47	8.37	30.10	0.70
S-3	05/28/1993	NA	NA	NA	NA	NA	NA	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	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	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	NA	NA	NA	NA	NA	NA	37.33	NA	NA	NA
S-3	09/21/1993	15,000	NA	900	2,200	2,600	11,000	NA	NA	NA	NA	NA	NA	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	NA	NA	NA	NA	NA	NA	37.33	8.80	28.53	NA
S-3	03/17/1994	14,000	NA	580	190	750	1,700	NA	NA	NA	NA	NA	NA	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	NA	NA	NA	NA	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	NA	NA	NA	NA	NA	NA	37.33	NA	NA	NA
S-3	09/22/1994	24,000	NA	630	1,100	1,400	5,700	NA	NA	NA	NA	NA	NA	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	NA	NA	NA	NA	NA	NA	37.33	NA	NA	NA
S-3	12/15/1994	18,000	NA	520	800	1,100	4,200	NA	NA	NA	NA	NA	NA	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	NA	NA	NA	NA	NA	NA	37.33	NA	NA	NA
S-3 b	03/30/1995	8,800	NA	360	730	700	3,700	NA	NA	NA	NA	NA	NA	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	NA	NA	NA	NA	NA	NA	37.33	NA	NA	NA
S-3	06/20/1995	9,600	NA	510	170	960	1,700	NA	NA	NA	NA	NA	NA	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	NA	NA	NA	NA	NA	NA	37.33	NA	NA	NA
S-3	09/20/1995	21,000	NA	400	560	1,300	4,600	NA	NA	NA	NA	NA	NA	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	NA	NA	NA	NA	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	NA	NA	NA	NA	NA	NA	37.33	NA	NA	NA
S-3	03/21/1996	9,100	NA	290	110	490	1,600	NA	NA	NA	NA	NA	NA	NA	NA	37.33	7.32	30.01	NA

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S-3 (D)	03/21/1996	11,000	NA	310	250	540	2,100	NA	NA	NA	NA	NA	NA	NA	NA	37.33	NA	NA	NA
S-3	09/06/1996	15,000	NA	440	300	1,100	3,000	500	NA	NA	NA	NA	NA	NA	NA	37.33	10.10	27.23	NA
S-3 (D)	09/06/1996	11,000	NA	490	170	820	1,500	700	NA	NA	NA	NA	NA	NA	NA	37.33	NA	NA	NA
S-3	12/19/1996	12,000	NA	600	380	850	2,500	380	NA	NA	NA	NA	NA	NA	NA	37.33	8.36	28.97	NA
S-3 (D)	12/19/1996	12,000	NA	590	380	830	2,500	540	NA	NA	NA	NA	NA	NA	NA	37.33	8.36	28.97	NA
S-3	03/17/1997	12,000	NA	520	140	740	1,400	320	NA	NA	NA	NA	NA	NA	NA	37.33	8.57	28.76	NA
S-3 (D)	03/17/1997	9,600	NA	500	100	680	1,100	<250	NA	NA	NA	NA	NA	NA	NA	37.33	8.57	28.76	NA
S-3	06/11/1997	9,600	NA	510	94	740	1,100	410	NA	NA	NA	NA	NA	NA	NA	37.33	9.26	28.07	NA
S-3	09/17/1997	21,000	NA	140	560	1,800	7,200	130	NA	NA	NA	NA	NA	NA	NA	37.33	9.62	27.71	NA
S-3	12/11/1997	24,000	NA	530	970	1,600	6,900	950	NA	NA	NA	NA	NA	NA	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	NA	NA	NA	NA	NA	NA	37.33	7.34	29.99	NA
S-3	03/16/1998	29,000	NA	840	810	1,700	6,000	<250	NA	NA	NA	NA	NA	NA	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	NA	NA	NA	NA	NA	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	NA	NA	NA	NA	NA	NA	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	NA	NA	NA	NA	NA	NA	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	NA	NA	NA	NA	NA	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	NA	NA	NA	NA	NA	NA	37.33	6.95	30.38	1.3/1.5
S-3	03/31/1999	NA	NA	NA	NA	NA	NA	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	NA	NA	NA	NA	NA	NA	37.33	8.85	28.48	NA
S-3	09/30/1999	8,270	2,020 a	226	113	686	1,440	184	NA	NA	NA	NA	NA	NA	NA	37.33	9.66	27.67	3.5/2.8
S-3	12/22/1999	9,530	2,270 a	207	132	603	1,450	616	NA	NA	NA	NA	NA	NA	NA	37.33	9.50	27.83	0.98/0.8
S-3	03/09/2000	2,290 d	1,600 a	84.5d	17.0 d	104 d	105 d	29.3 d	NA	NA	NA	NA	NA	NA	NA	37.30	6.25	31.05	1.0/1.4
S-3	06/20/2000	5,570	2,900 a	117	41.6	395	393	354	NA	NA	NA	NA	NA	NA	NA	37.30	9.67	27.63	1.8/2.0
S-3	09/05/2000	6,930	1,600 a	127	85.5	354	535	509	NA	NA	NA	NA	NA	NA	NA	37.30	9.49	27.81	1.1/1.9
S-3	12/04/2000	8,390	1,460 a	217	82.4	471	952	436	NA	NA	NA	NA	NA	NA	NA	37.30	9.23	28.07	1.1/1.5
S-3	12/12/2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	37.30	9.23	28.07	NA
S-3	03/08/2001	19,400	1,720 a	465	772	1,230	3,830	160	NA	NA	NA	NA	NA	NA	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	NA	NA	NA	NA	NA	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	NA	NA	NA	NA	NA	NA	37.30	9.93	27.37	3.7/2.9
S-3	11/19/2001	26,000	<2,000	160	210	990	4,100	NA	<50	NA	NA	NA	NA	NA	NA	37.30	9.33	27.97	2.9/1.9
S-3	03/18/2002	3,800	810	61	120	130	620	NA	5.0	NA	NA	NA	NA	NA	NA	37.30	7.03	30.27	1.1/4.7
S-3	06/19/2002	3,200	<500	48	81	160	360	NA	9.4	NA	NA	NA	NA	NA	NA	37.30	8.92	28.38	NA
S-3	09/11/2002	16,000	<1,100	230	570	980	3,900	NA	<50	NA	NA	NA	NA	NA	NA	37.30	9.54	27.76	3.0
S-3	12/11/2002	16,000	<1,500	130	270	770	3,000	NA	<50	NA	NA	NA	NA	NA	NA	36.85	9.23	27.62	1.6

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S-3	03/11/2003	8,100	<1,500	29	110	190	1,700	NA	<20	NA	NA	NA	NA	NA	NA	36.85	7.32	29.53	3.9
S-3	06/10/2003	Well inaccessible		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	36.85	NA	NA	NA
S-3	09/09/2003	5,900	640 a	44	140	130	1,500	NA	4.4	NA	NA	NA	NA	NA	NA	36.85	8.99	27.86	2.2
S-3	12/09/2003	27,000	1,500 a	130	460	550	4,900	NA	<20	NA	NA	NA	NA	NA	NA	36.85	7.67	29.18	1.6
S-3	03/09/2004	11,000	1,700 a	24	100	230	3,200	NA	<5.0	NA	NA	NA	NA	NA	NA	36.85	6.35	30.50	2.1
S-3	06/08/2004	1,700	1,100 a	11	34	29	420	NA	<2.5	NA	NA	NA	NA	NA	NA	36.85	8.25	28.60	0.1
S-3	09/07/2004	850	310 i	13	0.99	23	17	NA	7.0	<2.0	<2.0	<2.0	<5.0	NA	NA	36.85	9.05	27.80	0.1
S-3	12/06/2004	Unable to sample		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	36.85	7.70	29.15	NA
S-3	12/15/2004	620	270 i	1.9	7.8	10	180	NA	<0.50	NA	NA	NA	NA	NA	NA	36.85	5.83	31.02	2.4
S-3	03/07/2005	4,500	400 i	<0.50	7.7	30	350	NA	<0.50	NA	NA	NA	NA	NA	NA	36.85	4.58	32.27	4.4
S-3	06/10/2005	850	130 a	<0.50	1.3	7.4	53	NA	<0.50	NA	NA	NA	NA	NA	NA	36.85	5.40	31.45	0.17
S-4	03/29/2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	39.06	8.37	30.69	NA
S-4	03/31/2000	20,900	5,780 a	4,570	272	595	997	4,490	4,450 c	NA	NA	NA	NA	NA	NA	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	NA	NA	NA	NA	NA	NA	39.06	8.77	30.29	2.7/2.9
S-4	09/05/2000	5,760	1,670 a	841	54.2	162	115	1,040	NA	NA	NA	NA	NA	NA	NA	39.06	10.57	28.49	1.3/0.3
S-4	12/04/2000	3,990	1,050 a	949	<10.0	118	48.3	1,120	NA	NA	NA	NA	NA	NA	NA	39.06	10.67	28.39	1.1/1.0
S-4	12/12/2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	39.06	10.64	28.42	NA
S-4	03/08/2001	20,100	5,840 a	5,210	105	381	281	2,520	NA	NA	NA	NA	NA	NA	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	NA	NA	NA	NA	NA	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	NA	NA	NA	NA	NA	NA	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	NA	NA	NA	NA	NA	NA	39.06	10.83	28.23	3.6/1.6
S-4	03/18/2002	Unable to sample		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	39.06	8.75	30.31	NA
S-4	03/29/2002	14,000	NA	1,700	30	280	250	NA	960	NA	NA	NA	NA	NA	NA	39.06	8.85 g	30.21	3.0/3.1
S-4	06/19/2002	4,700	<1,500	620	9.5	84	37	NA	490	NA	NA	NA	NA	NA	NA	NA	10.37 h	NA	NA
S-4	09/11/2002	2,700	280	280	4.6	23	13	NA	410	NA	NA	NA	NA	NA	NA	NA	11.14	NA	0.6
S-4	12/11/2002	3,300	<900	320	5.7	24	15	NA	420	NA	NA	NA	NA	NA	NA	38.69	10.78	27.91	2.2
S-4	03/11/2003	12,000	<5,600	1,900	63	360	280	NA	930	NA	NA	NA	NA	NA	NA	38.69	9.31	29.38	1.5
S-4	06/10/2003	13,000	3,100 a	2,400	86	650	380	NA	1,100	NA	NA	NA	NA	NA	NA	38.69	9.77	28.92	0.8
S-4	09/09/2003	3,700	1,700 a	510	12	43	43	NA	650	NA	NA	NA	NA	NA	NA	38.69	10.78	27.91	0.9
S-4	12/09/2003	3,900	390 a	150	4.2	7.5	13	NA	510	NA	NA	NA	NA	NA	NA	38.69	10.20	28.49	0.1
S-4	03/09/2004	13,000	3,100 a	2,500	110	810	1,100	NA	1,100	NA	NA	NA	NA	NA	NA	38.69	7.67	31.02	0.7
S-4	06/08/2004	6,100	1,400 a	870	30	120	150	NA	420	NA	NA	NA	NA	NA	NA	38.69	10.27	28.42	0.3
S-4	09/07/2004	3,100	890 i	290	6.4	18	14	NA	250	<10	<10	<10	140	NA	NA	38.69	10.91	27.78	0.1

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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)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	1,2-DCA (ug/L)	EDB (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	DO Reading (ppm)
S-4	12/06/2004	4,900	670 i	520	9.9	38	24	NA	290	NA	NA	NA	NA	NA	NA	38.69	10.03	28.66	0.2
S-4	03/07/2005	28,000	2,900 i	2,300	130	690	770	NA	770	NA	NA	NA	NA	NA	NA	38.69	6.20	32.49	0.2
S-4	06/10/2005	13,000	2,700 i	1,900	81	380	460	NA	890	NA	NA	NA	NA	NA	NA	38.69	8.90	29.79	0.15
S-5	05/31/2002	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9.54	NA	NA
S-5	06/19/2002	16,000	<2,000	2,600	320	180	1,600	NA	5,300	NA	NA	NA	NA	NA	NA	NA	9.87	NA	NA
S-5	09/11/2002	8,800	<1,200	1,500	64	89	120	NA	5,600	NA	NA	NA	NA	NA	NA	NA	10.28	NA	0.9
S-5	12/11/2002	4,400	<1,000	280	61	130	130	NA	4,000	NA	NA	NA	NA	NA	NA	NA	9.87	NA	2.9
S-5	03/11/2003	2,300	<900	28	5.6	59	15	NA	2,400	NA	NA	NA	NA	NA	NA	38.05	8.26	29.79	1.6
S-5	06/10/2003	2,400	620 a	11	7.2	56	38	NA	1,100	NA	NA	NA	NA	NA	NA	38.05	8.51	29.54	0.1
S-5	09/09/2003	3,700	660 a	23	14	44	150	NA	440	NA	NA	NA	NA	NA	NA	38.05	9.44	28.61	0.1
S-5	12/09/2003	12,000	600 a	200	80	41	320	NA	580	NA	NA	NA	NA	NA	NA	38.05	9.50	28.55	0.4
S-5	03/09/2004	2,300	550 a	130	3.5	6.9	13	NA	250	NA	NA	NA	NA	NA	NA	38.05	7.04	31.01	0.2
S-5	06/08/2004	2,900	490 a	11	<2.5	8.9	18	NA	120	NA	NA	NA	NA	NA	NA	38.05	8.87	29.18	0.2
S-5	09/07/2004	3,600	650 i	17	11	12	30	NA	120	<10	<10	<10	3,700	NA	NA	38.05	9.45	28.60	0.1
S-5	12/06/2004	4,700	460 i	99	28	14	69	NA	180	NA	NA	NA	NA	NA	NA	38.05	8.75	29.30	0.1
S-5	03/07/2005	4,700	360 i	440	<2.5	<2.5	<5.0	NA	200	NA	NA	NA	NA	NA	NA	38.05	7.28	30.77	0.1
S-5	06/10/2005	1,200	240 i	1.3	<0.50	<0.50	1.2	NA	80	NA	NA	NA	NA	NA	NA	38.05	7.26	30.79	0.25
S-6	02/22/2007	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	37.86	8.18	29.68	NA
S-6	03/02/2007	5,100 k	1,700 j	630 k	23	200	110	NA	140	NA	NA	NA	280	13	<0.50	37.86	7.73	30.13	NA
S-6	05/23/2007	5,600 l	2,600 j	510	16	11	144	NA	72	NA	NA	NA	66	<2.5	<5.0	37.86	8.13	29.73	NA
S-6	08/28/2007	13,000 l	6,100 j,m	650	32	480	242	NA	78	6.1	<10	<10	320	<2.5	<5.0	37.86	8.44	29.42	NA
S-6	11/13/2007	19,000 l	6,400 j,m	760	47	500	602	NA	68	NA	NA	NA	340	<5.0	<10	37.86	8.78	29.08	NA
S-6	02/08/2008	6,800 l	2,200 j,m	380	14	130	87.0	NA	75	NA	NA	NA	200	<2.5	<5.0	37.86	7.06	30.80	NA
S-6	05/20/2008	12,000 l	2,900 j,m	590	21	270	60	NA	54	NA	NA	NA	240	<2.5	<5.0	37.86	8.60	29.26	NA
S-6	08/12/2008	22,000	7,100 j,m	890	75	450	1,170	NA	71	<20	<20	<20	200	<5.0	<10	37.86	9.21	28.65	NA
S-6	12/02/2008	26,000	4,600 j,m	1,500	170	670	1,500	NA	87	NA	NA	NA	260	<5.0	<10	37.86	8.72	29.14	NA
S-6	02/05/2009	29,000	5,200 j,m	1,200	210	910	3,400	NA	78	NA	NA	NA	230	<5.0	<10	37.86	9.19	28.67	NA
S-6	05/19/2009	8,600	1,900 j,m	660	22	120	110	NA	94	NA	NA	NA	460	<5.0	<10	37.86	8.26	29.60	NA
S-6	**09/29/2009**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**37.86**	**6.70**	**31.16**	**NA**
S-7	02/22/2007	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	37.58	7.39	30.19	NA
S-7	03/02/2007	100,000 k	2,500 j	32,000 k	9,700 k	2,900 k	14,000 k	NA	310 k	NA	NA	NA	480	150	<0.50	37.58	7.42	30.16	NA

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S-7	05/23/2007	82,000 l,m	3,700 j	24,000	8,100	2,800	13,000	NA	190	NA	NA	NA	<200	<10	<20	37.58	8.38	29.20	NA
S-7	08/28/2007	96,000 l	4,500 j,m	23,000	7,000	2,900	12,200	NA	190 n	<400	<400	<400	<2,000	<100	<200	37.58	9.32	28.26	NA
S-7	11/13/2007	100,000 l	25,000 j,m	22,000	6,500	3,000	12,400	NA	<200	NA	NA	NA	<2,000	<100	<200	37.58	9.60	27.98	NA
S-7	02/08/2008	74,000 l	4,000 j,m	29,000	9,300	3,100	13,700	NA	500	NA	NA	NA	<2,000	<100	<200	37.58	6.57	31.01	NA
S-7	05/20/2008	69,000 l	1,600 j,m	20,000	5,500	2,500	9,800	NA	260	NA	NA	NA	<2,000	<100	<200	37.58	9.00	28.58	NA
S-7	08/12/2008	120,000	4,900 j,m	25,000	8,400	2,800	11,700	NA	<200	<400	<400	<400	<2,000	<100	<200	37.58	9.81	27.77	NA
S-7	12/02/2008	120,000	4,300 j,m	24,000	8,400	3,600	15,000	NA	320	NA	NA	NA	<2,000	<100	<200	37.58	9.91	27.67	NA
S-7	02/05/2009	99,000	3,800 j,m	25,000	7,600	2,500	12,000	NA	370	NA	NA	NA	<2,000	<100	<200	37.58	9.30	28.28	NA
S-7	05/19/2009	64,000	3,300 j,m	16,000	4,400	2,100	7,100	NA	250	NA	NA	NA	<2,000	<100	<200	37.58	8.30	29.28	NA
S-7	**09/29/2009**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**37.57**	**6.13**	**31.44**	**NA**
S-8	02/22/2007	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	37.05	6.65	30.40	NA
S-8	03/02/2007	72,000 k	2,300 j	12,000 k	5,600 k	2,900 k	15,000 k	NA	120	NA	NA	NA	230	150	<2.5	37.05	6.60	30.45	NA
S-8	05/23/2007	69,000 l,m	5,800 j	12,000	6,700	3,100	19,500	NA	160	NA	NA	NA	280	<10	<20	37.05	7.91	29.14	NA
S-8	08/28/2007	69,000 l	6,700 j,m	11,000	4,800	3,100	16,800	NA	170	<200	<200	<200	<1,000	<50	<100	37.05	8.79	28.26	NA
S-8	11/13/2007	84,000 l	21,000 j,m	10,000	5,000	3,300	18,300	NA	290	NA	NA	NA	<1,000	<50	<100	37.05	8.93	28.12	NA
S-8	02/08/2008	54,000 l	4,500 j,m	11,000	5,500	3,500	18,200	NA	200	NA	NA	NA	<1,000	<50	<100	37.05	6.26	30.79	NA
S-8	05/20/2008	67,000 l	2,200 j,m	10,000	5,400	3,900	19,600	NA	160	NA	NA	NA	<1,000	<50	<100	37.05	7.40	29.65	NA
S-8	08/12/2008	77,000	5,200 j,m	9,300	3,200	2,500	14,300	NA	210	<200	<200	<200	<1,000	<50	<100	37.05	9.10	27.95	NA
S-8	12/02/2008	70,000	3,600 j,m	9,500	2,700	2,500	12,300	NA	290	NA	NA	NA	1,200	<50	<100	37.05	9.39	27.66	NA
S-8	02/05/2009	74,000	3,500 j,m	10,000	3,500	2,600	15,000	NA	240	NA	NA	NA	<1,000	<50	<100	37.05	8.75	28.30	NA
S-8	05/19/2009	69,000	340 j,m	8,200	3,700	2,900	14,000	NA	<100	NA	NA	NA	<1,000	<50	<100	37.05	7.56	29.49	NA
S-8	**09/29/2009**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**37.05**	**5.82**	**31.23**	**NA**
S-9	02/22/2007	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	37.52	7.59	29.93	NA
S-9	03/02/2007	12,000	1,400 j	150	200	1,200	2,500	NA	5.8	NA	NA	NA	<50	<5.0	<5.0	37.52	7.30	30.22	NA
S-9	05/23/2007	8,200 l	2,300 j	13	38	2.5 n	1,453	NA	5.2 n	NA	NA	NA	<100	<5.0	<10	37.52	8.43	29.09	NA
S-9	08/28/2007	9,500 l	2,800 j,m	21	49	540	789	NA	<10	<20	<20	<20	<100	<5.0	<10	37.52	9.59	27.93	NA
S-9	11/13/2007	12,000 l	2,100 j,m	19	35	450	499	NA	<10	NA	NA	NA	<100	<5.0	<10	37.52	9.91	27.61	NA
S-9	02/08/2008	10,000 l	1,900 j,m	18	67	1,100	1,451	NA	<10	NA	NA	NA	<100	<5.0	<10	37.52	6.40	31.12	NA
S-9	05/20/2008	11,000 l	1,500 j,m	150	770	13,000	17,460	NA	<100	NA	NA	NA	<1,000	<50	<100	37.52	8.79	28.73	NA
S-9	08/12/2008	9,400	2,000 j,m	16	59	700	834	NA	<10	<20	<20	<20	<100	<5.0	<10	37.52	10.00	27.52	NA
S-9	12/02/2008	14,000	1,300 j,m	10	62	980	1,139	NA	<10	NA	NA	NA	<100	<5.0	<10	37.52	10.22	27.30	NA
S-9	02/05/2009	6,300	1,400 j,m	11	33	480	600	NA	<10	NA	NA	NA	<100	<5.0	<10	37.52	9.49	28.03	NA

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S-9	05/19/2009	12,000	1,500 j,m	11	64	940	880	NA	<5.0	NA	NA	NA	<50	<2.5	<5.0	37.52	8.20	29.32	NA
S-9	**09/29/2009**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**37.52**	**5.51**	**32.01**	**NA**
S-10	**09/22/2009**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**37.43**	**4.98**	**32.45**	**NA**
S-10	**09/29/2009**	**320**	**<50 j**	**<0.50**	**<1.0**	**<1.0**	**<1.0**	**NA**	**<1.0**	**NA**	**NA**	**NA**	**<10**	**<0.50**	**<1.0**	**37.43**	**5.07**	**32.36**	**NA**
S-11	**09/22/2009**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**36.44**	**4.50**	**31.94**	**NA**
S-11	**09/29/2009**	**<50**	**<50 j**	**<0.50**	**<1.0**	**<1.0**	**<1.0**	**NA**	**<1.0**	**NA**	**NA**	**NA**	**<10**	**<0.50**	**<1.0**	**36.44**	**3.88**	**32.56**	**NA**
S-12	**09/22/2009**	**Unable to access**		**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**36.00**	**NA**	**NA**	**NA**
S-12	**09/25/2009**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**36.00**	**5.10**	**30.90**	**NA**
S-12	**09/29/2009**	**280**	**91 j,m**	**<0.50**	**<1.0**	**<1.0**	**<1.0**	**NA**	**<1.0**	**NA**	**NA**	**NA**	**<10**	**<0.50**	**<1.0**	**36.00**	**3.62**	**32.38**	**NA**
BW-A	09/30/1999	NA	NA	NA	NA	NA	NA	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	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	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	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	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	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	NA	NA	NA	NA	NA	NA	8.71	NA	NA
BW-A	03/08/2001	<2,500	1,370 a	46.6	<25.0	<25.0	<25.0	10,600	11,700	NA	NA	NA	NA	NA	NA	NA	6.38	NA	0.9/1.4
BW-A	06/07/2001	1,100	960	<10	<10	<10	17	7,200	NA	NA	NA	NA	NA	NA	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	NA	NA	NA	NA	NA	NA	10.49	NA	3.3/1.7
BW-A	11/19/2001	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9.89	NA	NA

XY-Survey Coordinates

GLOBAL_ID	FIELD_PT_NAME	FIELD_PT_CLASS	XY_SURVEY_DATE	LATITUDE	LONGTITUDE	XY_METHOD	XY_DATUM	XY_ACC_VAL	XY_SURVEY_ORG	GPS_EQUIP_TYPE	XY_SURVEY_DESC
	S-6	MW	10/26/2009	37.77438	-122.2116358	CGPS	NAD83	30	Virgil Chavez Land S	L530	
	S-7	MW	10/26/2009	37.77423	-122.2117524	CGPS	NAD83	30	Virgil Chavez Land S	L530	
	S-8	MW	10/26/2009	37.77431	-122.2119856	CGPS	NAD83	30	Virgil Chavez Land S	L530	
	S-9	MW	10/26/2009	37.77417	-122.2118016	CGPS	NAD83	30	Virgil Chavez Land S	L530	
	S-10	MW	10/26/2009	37.77421	-122.2114511	CGPS	NAD83	30	Virgil Chavez Land S	L530	
	S-11	MW	10/26/2009	37.77411	-122.2115341	CGPS	NAD83	30	Virgil Chavez Land S	L530	
	S-12	MW	10/26/2009	37.77402	-122.2116421	CGPS	NAD83	30	Virgil Chavez Land S	L530	
	V-12	MW	10/26/2009	37.77403	-122.2116476	CGPS	NAD83	30	Virgil Chavez Land S	L530	

Name of Site:
Site Address: 4411 Foothill Blvd., Oakland
Project Manager: Peter Schaefer
Checked By:

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Former Shell Service Station
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Oakland, CA

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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
DIPE = Di-isopropyl ether, analyzed by EPA Method 8260B
ETBE = Ethyl tertiary butyl ether, analyzed by EPA Method 8260B
TAME = Tertiary amyl methyl ether, analyzed by EPA Method 8260B
TBA = Tertiary butyl alcohol, analyzed by EPA Method 8260B
1,2-DCA = 1,2-Dichloroethane, analyzed by EPA Method 8260B
EDB = Ethylene Dibromide, analyzed by EPA Method 8260B
TOB = Top of Box Elevation
TOC = Top of Casing 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

WELL CONCENTRATIONS
Former Shell Service Station
4411 Foothill Boulevard
Oakland, CA

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)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	1,2-DCA (ug/L)	EDB (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	DO Reading (ppm)

Notes:

a = Chromatogram pattern indicates an unidentified hydrocarbon/Hydrocarbon does not match pattern of laboratory's standard.

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 February 3, 2000 for the difference between TOB and TOC.

h = Estimated depth to water from TOB. Wellbox was destroyed. No new survey.

i = Hydrocarbon reported is in the early Diesel range and does not match the laboratory's standard.

j = Diesel with Silica gel clean-up.

k = Initial analysis within holding time. Reanalysis for the required dilution or confirmation was past holding time.

l = Analyzed by EPA Method 8015B (M).

m = The sample chromatographic pattern for TPH does not match the chromatographic pattern of the specified standard. Quantitation of the unknown hydrocarbon(s) in the sample was based upon the specified standard.

n = Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.

Wells S-1 through S-4 surveyed February 3, 2000 by Virgil Chavez Land Surveying of Vallejo, CA.

Wells S-1 through S-4 surveyed March 5, 2002 by Virgil Chavez Land Surveying of Vallejo, CA.

Beginning December 12, 2002, depth to water referenced to Top of Casing elevation.

Well S-5 surveyed May 29, 2003 by Virgil Chavez Land Surveying of Vallejo, CA.

Wells S-6 through S-9 surveyed February 21, 2007 by Virgil Chavez Land Surveying of Vallejo, CA.

Wells S-6 through S-12 surveyed October 26, 2009 by Virgil Chavez Land Surveying of Vallejo, CA.

Calscience
Environmental
Laboratories, Inc.

October 12, 2009

Michael Ninokata
Blaine Tech Services, Inc.
1680 Rogers Avenue
San Jose, CA 95112-1105

Subject: **Calscience Work Order No.: 09-10-0032**
Client Reference: 4411 Foothill Blvd., Oakland, CA

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 10/1/2009 and analyzed in accordance with the attached chain-of-custody.

Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Systems Manual, applicable standard operating procedures, and other related documentation. The original report of subcontracted analysis, if any, is provided herein, and follows the standard Calscience data package. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

If you have any questions regarding this report, please do not hesitate to contact the undersigned.

Sincerely,

Philip Samelle for

Calscience Environmental
Laboratories, Inc.
Xuan H. Dang
Project Manager

Calscience Environmental Laboratories, Inc.

Analytical Report

Blaine Tech Services, Inc.
1680 Rogers Avenue
San Jose, CA 95112-1105

Date Received: 10/01/09
Work Order No: 09-10-0032
Preparation: EPA 3510C
Method: EPA 8015B

Project: 4411 Foothill Blvd., Oakland, CA

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
S-10	09-10-0032-1-D	09/29/09 12:00	Aqueous	GC 46	10/04/09	10/07/09 14:25	091004B11

Comment(s): -The sample extract was subjected to Silica Gel treatment prior to analysis.

Parameter	Result	RL	DF	Qual	Units
Diesel Range Organics	ND	50	1		ug/L

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	91	68-140	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
S-11	09-10-0032-2-D	09/29/09 12:30	Aqueous	GC 46	10/04/09	10/06/09 21:49	091004B11

Comment(s): -The sample extract was subjected to Silica Gel treatment prior to analysis.

Parameter	Result	RL	DF	Qual	Units
Diesel Range Organics	ND	50	1		ug/L

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	76	68-140	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
S-12	09-10-0032-3-D	09/29/09 15:55	Aqueous	GC 46	10/04/09	10/07/09 14:56	091004B11

Comment(s): -The sample chromatographic pattern for TPH does not match the chromatographic pattern of the specified standard. Quantitation of the unknown hydrocarbon(s) in the sample was based upon the specified standard.
-The sample extract was subjected to Silica Gel treatment prior to analysis.

Parameter	Result	RL	DF	Qual	Units
Diesel Range Organics	91	50	1		ug/L

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	96	68-140	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Blaine Tech Services, Inc.		Date Received:	10/01/09
1680 Rogers Avenue		Work Order No:	09-10-0032
San Jose, CA 95112-1105		Preparation:	EPA 3510C
		Method:	EPA 8015B

Project: 4411 Foothill Blvd., Oakland, CA

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-211-1,370**	**N/A**	**Aqueous**	**GC 46**	**10/04/09**	**10/06/09 16:38**	**091004B11**

Parameter	Result	RL	DF	Qual	Units
Diesel Range Organics	ND	50	1		ug/L
Surrogates:	REC (%)	Control Limits		Qual	
Decachlorobiphenyl	76	68-140			

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Blaine Tech Services, Inc.
1680 Rogers Avenue
San Jose, CA 95112-1105

Date Received: 10/01/09
Work Order No: 09-10-0032
Preparation: EPA 5030B
Method: LUFT GC/MS / EPA 8260B
Units: ug/L

Project: 4411 Foothill Blvd., Oakland, CA

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
S-10	09-10-0032-1-A	09/29/09 12:00	Aqueous	GC/MS W	10/02/09	10/02/09 07:58	091001L02

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.50	1		Xylenes (total)	ND	1.0	1	
1,2-Dibromoethane	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	
1,2-Dichloroethane	ND	0.50	1		Tert-Butyl Alcohol (TBA)	ND	10	1	
Ethylbenzene	ND	1.0	1		TPPH	320	50	1	
Toluene	ND	1.0	1						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	104	80-132		1,2-Dichloroethane-d4	103	80-141	
Toluene-d8	96	80-120		Toluene-d8-TPPH	100	88-112	
1,4-Bromofluorobenzene	94	76-120					

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
S-11	09-10-0032-2-A	09/29/09 12:30	Aqueous	GC/MS W	10/02/09	10/02/09 08:27	091001L02

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.50	1		Xylenes (total)	ND	1.0	1	
1,2-Dibromoethane	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	
1,2-Dichloroethane	ND	0.50	1		Tert-Butyl Alcohol (TBA)	ND	10	1	
Ethylbenzene	ND	1.0	1		TPPH	ND	50	1	
Toluene	ND	1.0	1						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	102	80-132		1,2-Dichloroethane-d4	106	80-141	
Toluene-d8	96	80-120		Toluene-d8-TPPH	100	88-112	
1,4-Bromofluorobenzene	91	76-120					

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
S-12	09-10-0032-3-A	09/29/09 15:55	Aqueous	GC/MS W	10/02/09	10/02/09 08:56	091001L02

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.50	1		Xylenes (total)	ND	1.0	1	
1,2-Dibromoethane	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	
1,2-Dichloroethane	ND	0.50	1		Tert-Butyl Alcohol (TBA)	ND	10	1	
Ethylbenzene	ND	1.0	1		TPPH	280	50	1	
Toluene	ND	1.0	1						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	101	80-132		1,2-Dichloroethane-d4	105	80-141	
Toluene-d8	101	80-120		Toluene-d8-TPPH	108	88-112	
1,4-Bromofluorobenzene	96	76-120					

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Blaine Tech Services, Inc.
1680 Rogers Avenue
San Jose, CA 95112-1105

Date Received: 10/01/09
Work Order No: 09-10-0032
Preparation: EPA 5030B
Method: LUFT GC/MS / EPA 8260B
Units: ug/L

Project: 4411 Foothill Blvd., Oakland, CA

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-767-2,628**	**N/A**	**Aqueous**	**GC/MS W**	**10/01/09**	**10/02/09 02:40**	**091001L02**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.50	1		Xylenes (total)	ND	1.0	1	
1,2-Dibromoethane	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	
1,2-Dichloroethane	ND	0.50	1		Tert-Butyl Alcohol (TBA)	ND	10	1	
Ethylbenzene	ND	1.0	1		TPPH	ND	50	1	
Toluene	ND	1.0	1						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	96	80-132		1,2-Dichloroethane-d4	100	80-141	
Toluene-d8	95	80-120		Toluene-d8-TPPH	100	88-112	
1,4-Bromofluorobenzene	93	76-120					

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

Blaine Tech Services, Inc.
1680 Rogers Avenue
San Jose, CA 95112-1105

Date Received: 10/01/09
Work Order No: 09-10-0032
Preparation: EPA 5030B
Method: LUFT GC/MS / EPA 8260B

Project 4411 Foothill Blvd., Oakland, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
09-10-0031-1	**Aqueous**	**GC/MS W**	**10/01/09**	**10/02/09**	**091001S02**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	97	94	72-120	4	0-20	
Carbon Tetrachloride	95	100	63-135	5	0-20	
Chlorobenzene	103	100	80-120	3	0-20	
1,2-Dibromoethane	108	105	80-120	3	0-20	
1,2-Dichlorobenzene	99	100	80-120	1	0-20	
1,1-Dichloroethene	94	91	60-132	3	0-24	
Ethylbenzene	102	100	78-120	3	0-20	
Toluene	91	88	74-122	4	0-20	
Trichloroethene	94	89	69-120	5	0-20	
Vinyl Chloride	90	89	58-130	1	0-20	
Methyl-t-Butyl Ether (MTBE)	97	93	72-126	4	0-21	
Tert-Butyl Alcohol (TBA)	108	109	72-126	1	0-20	
Diisopropyl Ether (DIPE)	99	95	71-137	4	0-23	
Ethyl-t-Butyl Ether (ETBE)	95	91	74-128	4	0-20	
Tert-Amyl-Methyl Ether (TAME)	97	93	76-124	4	0-20	
Ethanol	114	101	35-167	12	0-48	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

Blaine Tech Services, Inc.		Date Received:	N/A
1680 Rogers Avenue		Work Order No:	09-10-0032
San Jose, CA 95112-1105		Preparation:	EPA 3510C
		Method:	EPA 8015B

Project: 4411 Foothill Blvd., Oakland, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-211-1,370	Aqueous	GC 46	10/04/09	10/06/09	091004B11

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Diesel Range Organics	103	112	75-117	8	0-13	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

Blaine Tech Services, Inc.	Date Received: N/A
1680 Rogers Avenue	Work Order No: 09-10-0032
San Jose, CA 95112-1105	Preparation: EPA 5030B
	Method: LUFT GC/MS / EPA 8260B

Project: 4411 Foothill Blvd., Oakland, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-767-2,628	Aqueous	GC/MS W	10/01/09	10/02/09	091001L02

Parameter	LCS %REC	LCSD %REC	%REC CL	ME_CL	RPD	RPD CL	Qualifiers
Benzene	91	90	80-122	73-129	0	0-20	
Carbon Tetrachloride	88	92	68-140	56-152	5	0-20	
Chlorobenzene	97	97	80-120	73-127	0	0-20	
1,2-Dibromoethane	98	101	80-121	73-128	4	0-20	
1,2-Dichlorobenzene	94	95	80-120	73-127	1	0-20	
1,1-Dichloroethene	89	87	72-132	62-142	2	0-25	
Ethylbenzene	96	97	80-126	72-134	0	0-20	
Toluene	85	85	80-121	73-128	0	0-20	
Trichloroethene	90	89	80-123	73-130	0	0-20	
Vinyl Chloride	93	94	67-133	56-144	2	0-20	
Methyl-t-Butyl Ether (MTBE)	89	88	75-123	67-131	2	0-20	
Tert-Butyl Alcohol (TBA)	89	94	75-123	67-131	5	0-20	
Diisopropyl Ether (DIPE)	92	91	71-131	61-141	2	0-20	
Ethyl-t-Butyl Ether (ETBE)	87	86	76-124	68-132	1	0-20	
Tert-Amyl-Methyl Ether (TAME)	89	90	80-123	73-130	1	0-20	
Ethanol	100	98	61-139	48-152	2	0-27	
TPPH	89	88	65-135	53-147	1	0-30	

Total number of LCS compounds : 17
Total number of ME compounds : 0
Total number of ME compounds allowed : 1
LCS ME CL validation result : Pass

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Glossary of Terms and Qualifiers

Work Order Number: 09-10-0032

Qualifier	Definition
*	See applicable analysis comment.
1	Surrogate compound recovery was out of control due to a required sample dilution, therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to matrix interference. The associated LCS and/or LCSD was in control and, therefore, the sample data was reported without further clarification.
4	The MS/MSD RPD was out of control due to matrix interference. The LCS/LCSD RPD was in control and, therefore, the sample data was reported without further clarification.
5	The PDS/PDSD associated with this batch of samples was out of control due to a matrix interference effect. The associated batch LCS/LCSD was in control and, hence, the associated sample data was reported with no further corrective action required.
A	Result is the average of all dilutions, as defined by the method.
B	Analyte was present in the associated method blank.
C	Analyte presence was not confirmed on primary column.
E	Concentration exceeds the calibration range.
H	Sample received and/or analyzed past the recommended holding time.
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
ME	LCS Recovery Percentage is within LCS ME Control Limit range.
N	Nontarget Analyte.
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
U	Undetected at the laboratory method detection limit.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.
	Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture.

Shell Oil Products Chain Of Custody Record

LAB (LOCATION)
- ☑ CALSCIENCE (_____)
- ☐ SPL (_____)
- ☐ XENCO (_____)
- ☐ TEST AMERICA (_____)
- ☐ OTHER (_____)

Please Check Appropriate Box:
☐ ENV. SERVICES | ☐ MOTIVA RETAIL | ☐ SHELL RETAIL
☐ MOTIVA SD&CM | ☑ CONSULTANT | ☐ LUBES
☐ SHELL PIPELINE | ☐ OTHER _____

Print Bill To Contact Name: Peter Schaefer 240897

INCIDENT # (ENV SERVICES): 98995746 ☐ CHECK IF NO INCIDENT # APPLIES

PO #:

SAP #:

DATE: 9/29/09

PAGE: 1 of 1

SAMPLING COMPANY	LOG CODE	SITE ADDRESS: Street and City	State	GLOBAL ID NO
Blaine Tech Services	BTSS	4411 Foothill Blvd., Oakland	CA	T0600101065

ADDRESS	EDF DELIVERABLE TO (Name, Company, Office Location)	PHONE NO	E-MAIL	CONSULTANT PROJECT NO
1680 Rogers Ave, San Jose, CA 95112	Anni Kreml, CRA, Emeryville	(510) 420-3335	Shelledf@craworld.com	BTS # 090929-DM1

PROJECT CONTACT (Hardcopy or PDF Report to)	TELEPHONE	FAX	E-MAIL	SAMPLER NAME(S) (Print):	LAB USE ONLY
Michael Ninokata - Copy to Shell.Lab.Billing@craworld.com	(408)573-0555	(408)573-7771	mninokata@blainetech.com	DAVID MAGALLANES	09-10-0032

TURNAROUND TIME (CALENDAR DAYS): ☑ STANDARD (14 DAY) ☐ 5 DAYS ☐ 3 DAYS ☐ 2 DAYS ☐ 24 HOURS ☐ RESULTS NEEDED ON WEEKEND

☐ LA - RWQCB REPORT FORMAT ☐ UST AGENCY:

SPECIAL INSTRUCTIONS OR NOTES :

Run TPH-d w/Silica Gel Clean Up

☐ SHELL CONTRACT RATE APPLIES
☐ STATE REIMBURSEMENT RATE APPLIES
☐ EDD NOT NEEDED
☑ RECEIPT VERIFICATION REQUESTED

REQUESTED ANALYSIS

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	MATRIX	PRESERVATIVE HCL	HNO3	H2SO4	NONE	OTHER	NO. OF CONT.	TPH - Purgeable (8260B)	TPH - Extractable (8015M)	BTEX (8260B)	5 Oxygenates (8260B)	MTBE (8260B)	TBA (8260B)	DIPE (8260B)	TAME (8260B)	ETBE (8260B)	1,2 DCA (8260B)	EDB (8260B)	Ethanol (8260B)	Methanol (8015M)	TEMPERATURE ON RECEIPT C° / Container PID Readings or Laboratory Notes
1	S-10	9/29/09	1200	W	X			X		5	X	X	X		X	X				X	X			
2	S-11	↓	1230	↓	X			X		5	X	X	X		X	X				X	X			
3	S-12	9/29/09	1555	W	X			X		5	X	X	X		X	X				X	X			

	Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
1		SAMPLE CUSTODIAN	9/29/09	1730
2	(Sample Custodian)	CEL	9/30/09	1330
3	10 a-30-09 1730		10/1/09	1030

T# 5127386 85

05/2/06 Revision

Calscience Environmental Laboratories, Inc.

WORK ORDER #: 09-10-0032

SAMPLE RECEIPT FORM

Cooler 1 of 1

CLIENT: Blaine Tech

DATE: 10/01/09

TEMPERATURE: (Criteria: 0.0 °C – 6.0 °C, not frozen)

Temperature 4.7 °C - 0.2 °C (CF) = 4.5 °C ☑ Blank ☐ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____).

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

☐ **Received at ambient temperature, placed on ice for transport by Courier.**

Ambient Temperature: ☐ Air ☐ Filter ☐ Metals Only ☐ PCBs Only **Initial:** JP

CUSTODY SEALS INTACT:

☐ Cooler ☐_____ ☐ No (Not Intact) ☑ Not Present ☐ N/A **Initial:** JP

☐ Sample ☐_____ ☐ No (Not Intact) ☑ Not Present **Initial:** RN

SAMPLE CONDITION:	Yes	No	N/A
Chain-Of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☑	☐	☐
☐ Collection date/time, matrix, and/or # of containers logged in based on sample labels.			
☐ COC not relinquished. ☐ No date relinquished. ☐ No time relinquished.			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and good condition	☑	☐	☐
Correct containers and volume for analyses requested	☑	☐	☐
Analyses received within holding time	☑	☐	☐
Proper preservation noted on COC or sample container	☑	☐	☐
☐ Unpreserved vials received for Volatiles analysis			
Volatile analysis container(s) free of headspace	☑	☐	☐
Tedlar bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE:

Solid: ☐4ozCGJ ☐8ozCGJ ☐16ozCGJ ☐Sleeve ☐EnCores® ☐TerraCores® ☐_____

Water: ☐VOA ☑3 VOAh ☐VOA**na₂** ☐125AGB ☐125AGB**h** ☐125AGB**p** ☐1AGB ☐1AGB**na₂** ☐1AGB**s** ☐500AGB ☑2 500AGJ ☐500AGJ**s** ☐250AGB ☐250CGB ☐250CGB**s** ☐1PB ☐500PB ☐500PB**na** ☐250PB ☐250PB**n** ☐125PB ☐125PB**znna** ☐100PJ ☐100PJ**na₂** ☐_____ ☐_____ ☐_____

Air: ☐Tedlar® ☐Summa® **Other:** ☐_____ **Trip Blank Lot#:**_____ **Checked by:** RN

Container: C: Clear A: Amber P: Plastic G: Glass J: Jar B: Bottle Z: Ziploc/Resealable Bag E: Envelop **Reviewed by:** WSC

Preservative: h: HCL n: HNO3 na_2: $Na_2S_2O_3$ Na: NaOH p: H_3PO_4 s: H_2SO_4 znna: $ZnAc_2$+NaOH f: Field-filtered **Scanned by:** RN

WELL GAUGING DATA

Project # 090922AK2 Date 9-22-09 Client SHELL

Site 4411 FOOTHILL BLVD, OAKLAND

Well ID	Time	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	Notes
S-10	1206	4					4.98	19.60	↓	
S-11	1241	4					4.50	19.70	↓	
S-12	PARKED	OVER	ALL	DAY						

WELL DEVELOPMENT DATA SHEET

Project #: 090922AK2	Client: SHELL
Developer: AK	Date Developed: 9-22-09
Well I.D. S-10	Well Diameter: (circle one) 2 3 (4) 6
Total Well Depth: Before 19.60 After 19.67	Depth to Water: Before 4.98 After 16.23
Reason not developed:	If Free Product, thickness:
Additional Notations:	

Volume Conversion Factor (VCF): {12 x (d^2/4) x π} /231
where
12 = in / foot
d = diameter (in.)
π = 3.1416
231 = in 3/gal

Well dia.		VCF
2"	=	0.16
3"	=	0.37
4"	=	0.65
6"	=	1.47
10"	=	4.08
12"	=	6.87

WC: 14.62

9.5	X	10	=	~~28~~ 95.0
1 Case Volume		Specified Volumes		gallons (Ac)

Purging Device:
- ☐ Bailer
- ☐ Suction Pump
- ☒ Electric Submersible
- ☒ Positive Air Displacement

Type of Installed Pump _____
Other equipment used SURGE BLOCK

TIME	TEMP (F)	pH	Cond. (mS or (µS))	TURBIDITY (NTUs)	VOLUME REMOVED:	NOTATIONS:
SURGED	WELL	FOR	10 MINS	PRIOR	TO	DEVELOPING
1234	76.9	6.9	764	>1000	9.5	HARD BOTTOM
1243	77.0	7.1	755	>1000	19.0	TURBID
1253	76.6	7.1	784	>1000	28.5	TURBID
1303	76.5	6.9	831	>1000	38.0	TURBID
SWITCHED TO		ELECTRIC	SUB.			
1312	77.4	6.8	860	>1000	47.5	TURBID
DEWATERED		@	55.0	GALLONS		
SURGED	FOR	5 MINS.				DTW: 5.31, DTB 19.70
1436	79.3	7.0	748	>1000	57.5	TURBID
1438	78.2	6.9	829	>1000	67.5	TURBID
DEWATERED		@	69.0	GALLONS		
1522	80.2	7.3	775	>1000	79.0	DTW: 5.52

Did Well Dewater? YES	If yes, note above.	Gallons Actually Evacuated:	125.0

WELL DEVELOPMENT DATA SHEET

Project #: 090922AF2	Client: SHELL
Developer: AC	Date Developed: 9-22-09
Well I.D. S-10	Well Diameter: (circle one) 2 3 (4) 6
Total Well Depth: Before 19.60 After 19.67	Depth to Water: Before 4.98 After 16.23
Reason not developed:	If Free Product, thickness:
Additional Notations:	

Volume Conversion Factor (VCF): $\{12 \times (d^2/4) \times \pi\} / 231$

where
12 = in / foot
d = diameter (in.)
π = 3.1416
231 = in 3/gal

Well dia.		VCF
2"	=	0.16
3"	=	0.37
4"	=	0.65
6"	=	1.47
10"	=	4.08
12"	=	6.87

WC: 14.62

9.5	X	10	=	95.0
1 Case Volume		Specified Volumes		gallons

Purging Device:
- ☐ Bailer
- ☐ Suction Pump
- ☒ Electric Submersible
- ☒ Positive Air Displacement

Type of Installed Pump _____
Other equipment used SURGE BLOCK

TIME	TEMP (F)	pH	Cond. (mS or µS)	TURBIDITY (NTUs)	VOLUME REMOVED:	NOTATIONS:
1524	77.0	6.8	849	>1000	89.0	
DEWATERED	@	90.0	GALLONS			
1603	78.9	7.1	782	568	100.0	DTW 5.60
1605	77.7	6.7	829	>1000	110.0	TURBID
DEWATERED	@	111.00	GALLONS			
1615	77.2	6.6	879	>1000	121.0	TURBID / HARD BOTTOM
DEWATERED	@	125.0	GALLONS			

Did Well Dewater? YES	If yes, note above.	Gallons Actually Evacuated:	125.0

WELL DEVELOPMENT DATA SHEET

Project #: 090922AK2	Client: SHELL
Developer: AK	Date Developed: 9-22-09
Well I.D. S-11	Well Diameter: (circle one) 2 3 (4) 6
Total Well Depth: Before 19.70 After 19.70	Depth to Water: Before 4.50 After 15.51
Reason not developed:	If Free Product, thickness:
Additional Notations:	

Volume Conversion Factor (VCF):	Well dia.		VCF
{12 x (d^2/4) x π} /231	2"	=	0.16
where	3"	=	0.37
12 = in / foot	4"	=	0.65
d = diameter (in.)	6"	=	1.47
π = 3.1416	10"	=	4.08
231 = in 3/gal	12"	=	6.87

9.8	X	10		98.0
1 Case Volume		Specified Volumes	=	gallons

Purging Device:
- ☐ Bailer
- ☐ Suction Pump
- ☒ Electric Submersible
- ☒ Positive Air Displacement

Type of Installed Pump _____

Other equipment used SURGE BLOCK

WC = 15.20

TIME	TEMP (F)	pH	Cond. (mS or (µS))	TURBIDITY (NTUs)	VOLUME REMOVED:	NOTATIONS:
SURGED	WELL	FOR 10 MINS	PRIOR TO	DEVELOPING		1
1357	77.5	7.6	1723	>1000	10.0	POSITIVE AIR DISPLACEMENT
SWITCHED	TO	ELECTRIC	SUMB.			
1403	78.1	6.7	1612	956	20.0	
DEWATERED	@		29.0	GALLONS		
SURGED	WELL	FOR	5 MIN			DTW: 4.56 DTB: 19.75
1507	78.6	7.0	1602	>1000	39.0	ELECTRIC SUB: PUMP
DEWATERED	@		48.0	GALLONS		
1537	77.5	6.7	1633	126	58.0	DTW: 5.25
DEWATER	@		67.0	GALLONS		
1626	77.4	7.1	1537	424	77.0	DTW: 5.90
DEWATERED	@		85.0	GALLONS		
1641	74.3	6.6	1654	170	95.0	
Did Well Dewater? YES	If yes, note above.			Gallons Actually Evacuated:		97.0

DEWATERED @ 97.0 GALLONS

WELL DEVELOPMENT DATA SHEET

Project #: 090922AK2	Client: SHELL
Developer: AK	Date Developed: 9/22/09 MW
Well I.D. MW ~~MW-12~~ S-12	Well Diameter: (circle one) 2 3 4 6 ___
Total Well Depth: Before After	Depth to Water: Before After
Reason not developed:	If Free Product, thickness:
Additional Notations:	

Volume Conversion Factor (VCF):	Well dia.		VCF
$\{12 \times (d^2/4) \times \pi\} / 231$	2"	=	0.16
where	3"	=	0.37
12 = in / foot	4"	=	0.65
d = diameter (in.)	6"	=	1.47
π = 3.1416	10"	=	4.08
231 = in 3/gal	12"	=	6.87

_____	X	_____	=	_____
1 Case Volume		Specified Volumes		gallons

Purging Device:
- ❑ Bailer
- ❑ Suction Pump
- ❑ Electric Submersible
- ❑ Positive Air Displacement

Type of Installed Pump _____
Other equipment used _____

TIME	TEMP (F)	pH	Cond. (mS or µS)	TURBIDITY (NTUs)	VOLUME REMOVED:	NOTATIONS:
WELL PARKED			OVER			

Did Well Dewater?	If yes, note above.	Gallons Actually Evacuated:	

WELL GAUGING DATA

Project # 090425-JO1 Date 9-25-09 Client Shell

Site 9411 Foothill Blvd Oakland CA.

Well ID	Time	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~~	Notes
S-2	0740	4					5.10	19.60	↓	

WELL DEVELOPMENT DATA SHEET

Project #: 090925-501	Client: Shell
Developer: JD	Date Developed: 9-25-09
Well I.D. S-12	Well Diameter: (circle one) 2 3 (4) 6 ___
Total Well Depth: Before 19.60 After 19.65	Depth to Water: Before 5.10 After 12.80
Reason not developed:	If Free Product, thickness:
Additional Notations:	Surged & Swabbed for 15 min

Volume Conversion Factor (VCF):	Well dia.		VCF
$\{12 \times (d^2/4) \times \pi\} / 231$	2"	=	0.16
where	3"	=	0.37
12 = in / foot	4"	=	0.65
d = diameter (in.)	6"	=	1.47
π = 3.1416	10"	=	4.08
231 = in 3/gal	12"	=	6.87

9.4	X	10	=	94
1 Case Volume		Specified Volumes		gallons

Purging Device:
- ☐ Bailer
- ☐ Suction Pump
- ☐ Electric Submersible
- ☒ Positive Air Displacement

Type of Installed Pump ___

Other equipment used Surge Block

TIME	TEMP (F)	pH	Cond. (mS or (µS))	TURBIDITY (NTUs)	VOLUME REMOVED:	NOTATIONS:
0820	67.5	7.47	1971	>1000	9.4	Brown silty / Hard Bottom
0830	67.6	7.22	1926	>1000	18.8	switched to GS
0832	70.6	7.05	1944	>1000	28.2	Brown cloudy Hard Bottom
0834	70.3	6.93	1881	>1000	37.6	Brown cloudy Hard Bottom
0836	70.2	6.91	1842	>1000	47.0	Brown cloudy Hard Bottom
0838	69.8	6.93	1821	>1000	56.4	Brown cloudy Hard Bottom
0840	69.9	6.94	1812	>1000	65.8	Brown cloudy Hard Bottom
0842	69.9	6.93	1800	>1000	75.2	surged with pump.
0844	70.2	6.91	1792	>1000	84.6	Brown cloudy Hard Bottom
0846	70.2	6.92	1787	>1000	94.0	Brown hard Bottom

Did Well Dewater? N	If yes, note above.	Gallons Actually Evacuated:	94

WELL GAUGING DATA

Project # 090929-DM1 Date 9/29/09 Client SHELL

Site 4411 FOOTHILL BLVD., OAKLAND CA

Well ID	Time	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	Notes
S-6	1112	4					6.70	19.26		
S-7	1125	4					6.13	19.34		
S-8	1118	4					~~5.57~~ 5.82 DTW	19.56		
S-9	1107	4					5.51	19.42		
S-10	1054	4					5.07	19.56		
S-11	1059	4					3.88	19.58		
S-12	1529	4					3.62	19.61		

SHELL ..ELL MONITORING DATA S..EET

BTS #: 090929-DM1	Site: 95995746
Sampler: DM	Date: 9/29/09
Well I.D.: S-10	Well Diameter: 2 3 (4) 6 8 ___
Total Well Depth (TD): 19.56'	Depth to Water (DTW): 5.07'
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 7.96'	

Purge Method: Bailer / Disposable Bailer / Positive Air Displacement / Electric Submersible / Waterra / Peristaltic / Extraction Pump / Other_____

Sampling Method: (Bailer) / Disposable Bailer / Extraction Port / Dedicated Tubing / Other: _____

9.4 (Gals.) X	3	=	28.3 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. (mS or (µS))	Turbidity (NTUs)	Gals. Removed	Observations
1146	74.4	6.1	812	49	10	
1148	75.0	6.1	720	311	19	
1150	75.2	6.1	715	>1000	29	

Did well dewater? Yes (No) Gallons actually evacuated: 29

Sampling Date: 9/29/09 Sampling Time: 1200 Depth to Water: 7.90'

Sample I.D.: S-10 Laboratory: (CalScience) Columbia Other_____

Analyzed for: (TPH-G) (BTEX) (MTBE) (TPH-D) Oxygenates (5) (Other:) See S.O.W.

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

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) 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

SHELL WELL MONITORING DATA SHEET

BTS #: 090929-DM1	Site: 9599574 6
Sampler: DM	Date: 9/29/09
Well I.D.: S-11	Well Diameter: 2 3 (4) 6 8 ___
Total Well Depth (TD): 19.58'	Depth to Water (DTW): 3.88'
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 7.02'	

Purge Method: Bailer; Disposable Bailer; Positive Air Displacement; (Electric Submersible); Waterra; Peristaltic; Extraction Pump; Other_____

Sampling Method: (Bailer); Disposable Bailer; Extraction Port; Dedicated Tubing; Other: _____

10.2 (Gals.) X	3	=	30.6 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. (mS or (µS))	Turbidity (NTUs)	Gals. Removed	Observations
1214	74.2	6.6	818	16	11	
1216	73.9	6.6	1332	64	21	
– well dewatered @ 24 gals.						
1230	72.8	6.9	1325	99	—	

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

Sampling Date: 9/29/09 Sampling Time: 1230 Depth to Water: 7.00'

Sample I.D.: S-11 Laboratory: (CalScience) Columbia Other_____

Analyzed for: (TPH-G) (BTEX) (MTBE) (TPH-D) Oxygenates (5) (Other): See S.O.W.

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

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) 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

SHELL WELL MONITORING DATA SHEET

BTS #: 090929-DM1	Site: 95995746
Sampler: DM	Date: 9/29/09
Well I.D.: S-12	Well Diameter: 2 3 (4) 6 8 ___
Total Well Depth (TD): 19.61'	Depth to Water (DTW): 3.62'
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 6.80'	

Purge Method: Bailer, Disposable Bailer, Positive Air Displacement, Electric Submersible, Waterra, Peristaltic, Extraction Pump, Other_____

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

10.4 (Gals.) X 3 = ~~41~~ DM 31.2 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. (mS or (µS))	Turbidity (NTUs)	Gals. Removed	Observations
1540	70.9	7.0	725	457	11	
1542	70.9	6.7	790	658	21	
1544	70.5	6.7	1008	>1000	32	

Did well dewater? Yes (No) Gallons actually evacuated: 32

Sampling Date: 9/29/09 Sampling Time: 1555 Depth to Water: 6.75'

Sample I.D.: S-12 Laboratory: (Calscience) Columbia Other_____

Analyzed for: (TPH-G) (BTEX) (MTBE) (TPH-D) Oxygenates (5) Other: SEE S.O.W.

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

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) 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