



**CONESTOGA-ROVERS
& ASSOCIATES**

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

TRANSMITTAL

DATE: October 13, 2008 REFERENCE NO.: 241501
PROJECT NAME: 461 8th Street, Oakland
TO: Jerry Wickham
Alameda County Health Care Services Agency
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502

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Environmental Health

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QUANTITY	DESCRIPTION
1	Groundwater Monitoring Report - Third Quarter 2008

As Requested For Review and Comment
 For Your Use

COMMENTS:

If you have any questions regarding the contents of this document, please call Thomas Sparrowe at (510) 420-3316.

Denis Brown
A.F. Evans Co c/o Anye Spivey
Leroy Griffin
WFB, NA Trustee of Havens
c/o John Ward
Leah Goldberg
Grover Buhr

Copy to: _____
Completed by: Thomas Sparrowe
[Please Print]

Signed: *Anthony Col*

Filing: **Correspondence File**



Mr. Jerry Wickham
Alameda County Health Care Services Agency
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94205-6577

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

Subject: Former Shell Service Station
461 8th Street
Oakland, California
SAP No. 129453
Incident No. 97093399
ACHCSA Case No. 0343

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.

As always, please feel free to contact me directly at (707) 865-0251 with any questions or concerns.

Sincerely,

A handwritten signature in black ink, appearing to read "Denis L. Brown", is written over a horizontal line.

Denis L. Brown
Project Manager



GROUNDWATER MONITORING REPORT – THIRD QUARTER 2008

**FORMER SHELL SERVICE STATION
461 8TH STREET
OAKLAND, CALIFORNIA**

SAP CODE	129453
INCIDENT NO.	97093399
AGENCY NO.	0343

**OCTOBER 13, 2008
REF. NO. 241501 (1)**

This report is printed on recycled paper.

**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>

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REPORT

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	461 8 th Street, Oakland
Site Use	Parking lot
Shell Project Manager	Denis Brown
CRA Project Manager	Tom Sparrowe
Lead Agency and Contact	ACHCSA, Jerry Wickham
Agency Case No.	0343
Shell SAP Code:	129453
Shell Incident No.	97093399

Date of most recent agency correspondence was July 25, 2008.

2.0 SITE ACTIVITIES, FINDINGS, AND DISCUSSION

2.1 CURRENT QUARTER'S ACTIVITIES

Blaine Tech Services, Inc. (Blaine) gauged and sampled wells according to the established monitoring program for this site. Blaine re-instituted sampling of well S-5 this quarter.

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

In advance of excavation activities, wells S-14, S-15, S-16, and AS-1 were destroyed on May 23, 2008, and new wells S-17, S-18, and observation well OW-1 were installed on May 30, 2008. CRA submitted a *Well Destruction and Well Installation Report* to Alameda County Health Care Services Agency (ACHCSA) on August 20, 2008.

Excavation occurred at the site in June 2008, and plumbing for subsequent insitu chemical oxidant (ISCO) application was installed during the backfilling activities. CRA submitted a *Soil Sampling and ISCO Piping Installation Report* to ACHCSA on September 17, 2008.

Shell continues to negotiate access to the adjacent building for the installation of soil vapor probes.

CRA installed monitoring wells S-14R, S-19, S-20, S-21A, S-21B, S-22A, S-22B, and S-23 and soil borings B-28 and B-19 between September 22 and 26, 2008 in accordance with CRA's July 15, 2008 *Vertical Delineation and Monitoring Well Installation Work Plan* and ACHCSA's July 25, 2008 work plan acceptance letter. The new monitoring wells will be added to the quarterly monitoring program at the site.

2.2 **CURRENT QUARTER'S FINDINGS**

Groundwater Flow Direction	Southwesterly
Hydraulic Gradient	0.01
Depth to Water	16.65 to 24.63 feet below top of well casing

2.3 **PROPOSED ACTIVITIES FOR NEXT QUARTER**

Blaine will gauge and sample wells during the second month of the quarter, according to the established monitoring program for this site.

On behalf of Shell, CRA will submit the results of the subsurface vertical delineation investigation and the ISCO work plan by December 1, 2008.

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



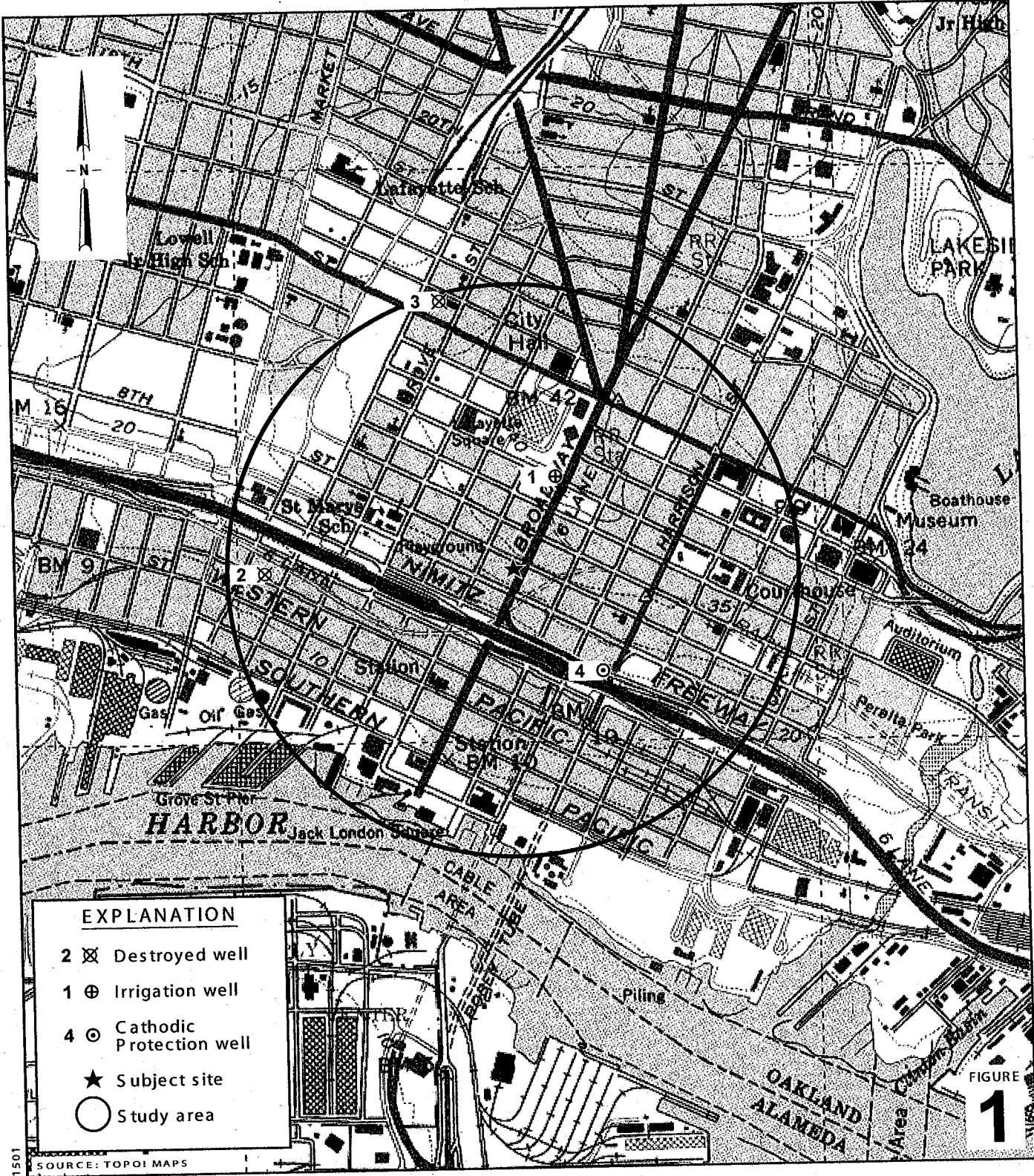
Thomas Sparrowe, PG
Project Manager



Aubrey K. Cool, PG
Professional Geologist



FIGURES



Former Shell Service Station
 461 8th Street
 Oakland, California

Vicinity Map
 1/2 Mile Radius



**CONESTOGA-ROVERS
 & ASSOCIATES**

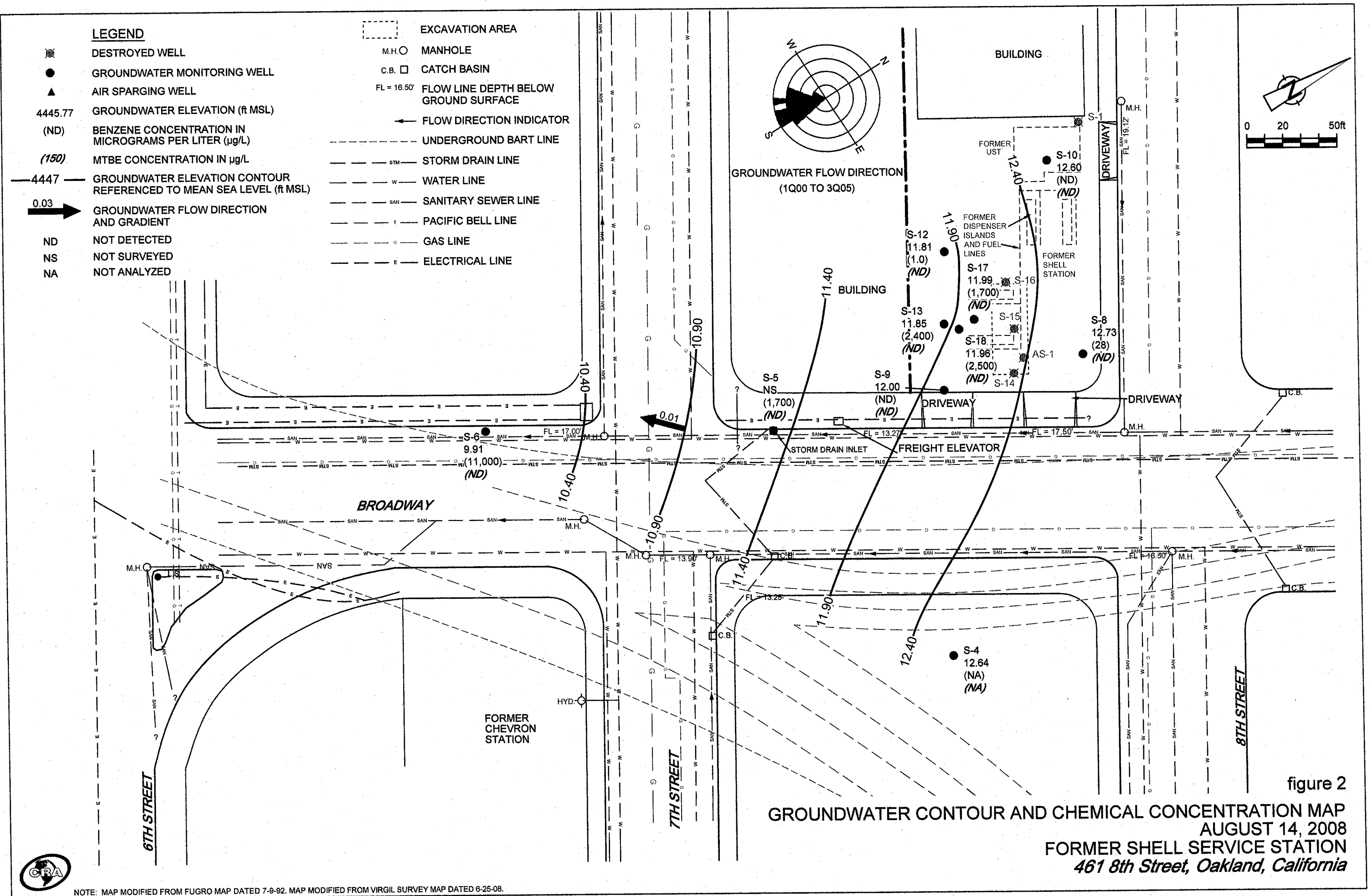


figure 2

GROUNDWATER CONTOUR AND CHEMICAL CONCENTRATION MAP
 AUGUST 14, 2008
 FORMER SHELL SERVICE STATION
 461 8th Street, Oakland, California



NOTE: MAP MODIFIED FROM FUGRO MAP DATED 7-9-92. MAP MODIFIED FROM VIRGIL SURVEY MAP DATED 6-25-08.

APPENDIX A

BLAINE TECH SERVICES, INC. –
GROUNDWATER MONITORING REPORT

BLAINE
TECH SERVICES INC.

GROUNDWATER SAMPLING SPECIALISTS
SINCE 1985

September 8, 2008

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

Third Quarter 2008 Groundwater Monitoring at
Former Shell-branded Service Station
461 8th Street
Oakland, CA

Monitoring performed on August 14, 2008

Groundwater Monitoring Report **080814-WW-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: Ana Friel
Conestoga-Rovers & Associates
19449 Riverside Dr., Suite 230
Sonoma, CA 95476

WELL CONCENTRATIONS
Former Shell Service Station
461 8th Street
Oakland, CA

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	EDC (ug/L)	EDB (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)
S-4	10/26/1988	130	3.8	13	4.0	30	NA	NA	NA	NA	NA	NA	NA	NA	93.51 (TOC)	NA	NA	NA
S-4	2/14/1989	<50	0.5	<1	<1	3.0	NA	NA	NA	NA	NA	NA	NA	NA	93.51 (TOC)	12.82	80.69	NA
S-4	5/1/1989	Well dry	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	93.51 (TOC)	16.48	77.03	NA
S-4	7/27/1989	Well dry	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	93.51 (TOC)	15.84	77.67	NA
S-4	10/5/1989	Well dry	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	93.51 (TOC)	15.98	77.53	NA
S-4	1/9/1990	Well dry	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	93.51 (TOC)	15.86	77.65	NA
S-4	4/30/1990	<50	<0.5	<0.5	<0.5	<1	NA	NA	NA	NA	NA	NA	NA	NA	93.51 (TOC)	14.48	79.03	NA
S-4	7/31/1990	Well dry	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	93.51 (TOC)	NA	NA	NA
S-4	10/30/1990	Well dry	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	93.51 (TOC)	NA	NA	NA
S-4	5/6/1991	Well dry	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	93.51 (TOC)	15.23	78.28	NA
S-4	6/27/1991	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	NA	NA	93.51 (TOC)	13.54	79.97	NA
S-4	9/24/1991	Well dry	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	93.51 (TOC)	15.85	77.66	NA
S-4	11/7/1991	Well dry	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	93.51 (TOC)	15.60	77.91	NA
S-4	2/13/1992	<50	<0.5	<0.5	<0.5	3.0	NA	NA	NA	NA	NA	NA	NA	NA	93.51 (TOC)	14.27	79.24	NA
S-4	5/11/1992	Well dry	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	93.51 (TOC)	NA	NA	NA
S-4	12/3/1992	Well inaccessible		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	93.51 (TOC)	NA	NA	NA
S-4	5/13/1993	Well inaccessible		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	93.51 (TOC)	14.81	78.70	NA
S-4	7/22/1993	Well inaccessible		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	93.51 (TOC)	14.42	79.09	NA
S-4	10/20/1993	Well inaccessible		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	93.51 (TOC)	NA	NA	NA
S-4	1/25/1994	Well inaccessible		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	93.51 (TOC)	14.60	78.91	NA
S-4	4/25/1994	Well inaccessible		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	93.51 (TOC)	14.39	79.12	NA
S-4	7/21/1994	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	NA	NA	93.51 (TOC)	22.29	71.22	NA
S-4	10/24/1994	<500	<0.3	<0.3	<0.3	<0.6	NA	NA	NA	NA	NA	NA	NA	NA	93.51 (TOC)	22.72	70.79	NA
S-4	12/22/1994	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	NA	NA	25.77*	22.25	3.52	NA
S-4	4/20/1995	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	NA	NA	25.77	21.16	4.61	NA
S-4	10/4/1995	<50	1.2	0.7	<0.5	<0.5	NA	NA	NA	NA	NA	NA	NA	NA	25.77	22.25	3.52	NA
S-4	1/3/1996	<50	0.6	<0.5	<0.5	1.7	NA	NA	NA	NA	NA	NA	NA	NA	25.77	23.28	2.49	NA
S-4	4/11/1996	<50	<0.5	<0.5	<0.5	<0.5	<2.5	NA	NA	NA	NA	NA	NA	NA	25.77	21.58	4.19	NA
S-4	7/11/1996	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	NA	NA	NA	NA	NA	NA	25.77	21.60	4.17	NA
S-4	10/2/1996	<50	<0.50	<0.50	<0.50	<0.50	2.6	NA	NA	NA	NA	NA	NA	NA	25.77	22.46	3.31	NA
S-4	1/22/1997	<50	0.73	<0.50	<0.50	0.63	<2.5	NA	NA	NA	NA	NA	NA	NA	25.77	20.06	5.71	NA
S-4	7/21/1997	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	NA	NA	NA	NA	NA	NA	25.77	22.10	3.67	NA
S-4	1/22/1998	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	NA	NA	NA	NA	NA	NA	25.77	20.50	5.27	NA
S-4	7/8/1998	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	NA	NA	NA	NA	NA	NA	25.77	20.86	4.91	NA

WELL CONCENTRATIONS
Former Shell Service Station
461 8th Street
Oakland, CA

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	EDC (ug/L)	EDB (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)
S-4	10/26/1998	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	25.77	21.41	4.36	NA
S-4	1/28/1999	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	NA	NA	NA	NA	NA	NA	25.77	22.34	3.43	NA
S-4	4/23/1999	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	25.77	21.43	4.34	NA
S-4	7/29/1999	<50.0	<0.500	<0.500	<0.500	<0.500	<5.00	NA	NA	NA	NA	NA	NA	NA	25.77	21.45	4.32	NA
S-4	11/1/1999	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	25.77	22.08	3.69	NA
S-4	1/7/2000	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	NA	NA	NA	NA	NA	NA	25.77	22.29	3.48	NA
S-4	4/11/2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	25.77	21.11	4.66	NA
S-4	7/19/2000	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	NA	NA	NA	NA	NA	NA	NA	25.77	21.19	4.58	NA
S-4	10/12/2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	25.77	22.22	3.55	NA
S-4	1/9/2001	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	NA	NA	NA	NA	NA	NA	NA	25.77	22.17	3.60	NA
S-4	4/6/2001	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	25.77	21.50	4.27	NA
S-4	7/25/2001	<50	2.0	0.52	<0.50	1.0	NA	<5.0	NA	NA	NA	NA	NA	NA	25.77	21.50	4.27	NA
S-4	11/1/2001	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	25.77	21.95	3.82	NA
S-4	01/17/2002 d	<50	<0.50	<0.50	<0.50	<0.50	NA	<5.0	NA	NA	NA	NA	NA	NA	25.77	21.13	4.64	NA
S-4	5/8/2002	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	25.77	21.35	4.42	NA
S-4	7/18/2002	<50	<0.50	<0.50	<0.50	<0.50	NA	<5.0	NA	NA	NA	NA	NA	NA	34.41	21.19	13.22	NA
S-4	10/15/2002	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	34.41	21.42	12.99	NA
S-4	1/2/2003	<50	<0.50	<0.50	<0.50	<0.50	NA	<5.0	NA	NA	NA	NA	NA	NA	34.41	20.75	13.66	NA
S-4	4/15/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	34.41	21.08	13.33	NA
S-4	7/14/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	34.41	19.93	14.48	NA
S-4	10/20/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	34.41	19.56	14.85	NA
S-4	1/22/2004	<50	<0.50	<0.50	<0.50	<1.0	NA	<0.50	NA	NA	NA	NA	NA	NA	34.41	19.12	15.29	NA
S-4	4/19/2004	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	34.41	19.15	15.26	NA
S-4	7/13/2004	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	34.41	20.48	13.93	NA
S-4	10/28/2004	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	34.41	21.00	13.41	NA
S-4	1/17/2005	<50	<0.50	<0.50	<0.50	<1.0	NA	<0.50	NA	NA	NA	NA	NA	NA	34.41	20.17	14.24	NA
S-4	4/14/2005	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	34.41	19.82	14.59	NA
S-4	7/28/2005	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	34.41	20.71	13.70	NA
S-4	10/5/2005	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	34.41	20.85	13.56	NA
S-4	2/9/2006	<50.0	<0.500	<0.500	<0.500	<0.500	NA	<0.500	NA	NA	NA	NA	NA	NA	34.41	19.47	14.94	NA
S-4	5/15/2006	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	34.41	19.52	14.89	NA
S-4	8/23/2006	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	34.41	20.75	13.66	NA
S-4	11/15/2006	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	34.41	20.03	14.38	NA
S-4	1/30/2007	<50	<0.50	<0.50	<0.50	<1.0	NA	<0.50	NA	NA	NA	NA	NA	NA	34.41	21.30	13.11	NA

WELL CONCENTRATIONS
Former Shell Service Station
461 8th Street
Oakland, CA

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	EDC (ug/L)	EDB (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)
---------	------	----------------	-------------	-------------	-------------	-------------	------------------------	------------------------	----------------	----------------	----------------	---------------	---------------	---------------	--------------	----------------------------	--------------------------	---------------------------

S-4	5/29/2007	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	34.41	21.15	13.26	NA
S-4	8/15/2007	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	34.41	21.38	13.03	NA
S-4	11/28/2007	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	34.41	21.55	12.86	NA
S-4	2/8/2008	64 h	<0.50	<1.0	<1.0	<1.0	NA	<1.0	NA	NA	NA	NA	<0.50	<1.0	34.41	22.75	11.66	NA
S-4	5/8/2008	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	34.41	22.18	12.23	NA
S-4	8/14/2008	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	34.41	21.77	12.64	NA

S-5	4/16/1987	130000	15000	16000	NA	14000 a	NA	NA	NA	NA	NA	NA	NA	NA	99.36 (TOC)	NA	NA	NA
S-5	10/26/1988	110000	20000	25000	2300	10000	NA	NA	NA	NA	NA	NA	NA	NA	99.36 (TOC)	NA	NA	NA
S-5	2/14/1989	94000	16000	21000	1800	10000	NA	NA	NA	NA	NA	NA	NA	NA	99.36 (TOC)	19.87	79.49	NA
S-5	5/1/1989	120000	29000	35000	3100	15000	NA	NA	NA	NA	NA	NA	NA	NA	99.36 (TOC)	21.23	78.13	NA
S-5	7/27/1989	110000	20000	29000	2400	14000	NA	NA	NA	NA	NA	NA	NA	NA	99.36 (TOC)	20.41	78.95	NA
S-5	10/5/1989	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	99.36 (TOC)	20.43	78.94	0.01
S-5	1/9/1990	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	99.36 (TOC)	21.16	78.21	0.01
S-5	4/30/1990	100000	13000	22000	2100	11000	NA	NA	NA	NA	NA	NA	NA	NA	99.36 (TOC)	20.96	78.40	NA
S-5	7/31/1990	53000	8300	14000	1200	7400	NA	NA	NA	NA	NA	NA	NA	NA	99.36 (TOC)	20.88	78.48	NA
S-5	10/30/1990	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	99.36 (TOC)	21.96	77.42	0.03
S-5	5/6/1991	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	99.36 (TOC)	23.00	76.46	0.13
S-5	6/27/1991	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	99.36 (TOC)	20.53	78.85	0.03
S-5	9/24/1991	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	99.36 (TOC)	21.40	78.01	0.06
S-5	11/7/1991	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	99.36 (TOC)	21.33	78.23	0.25
S-5	2/13/1992	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	99.36 (TOC)	22.52	77.09	0.31
S-5	5/11/1992	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	99.36 (TOC)	22.46	77.36	0.58
S-5	12/3/1992	Well inaccessible		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	99.36 (TOC)	NA	NA	NA
S-5	5/13/1993	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	99.36 (TOC)	22.22	77.36	0.27
S-5	7/22/1993	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	99.36 (TOC)	21.68	77.88	0.25
S-5	10/20/1993	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	99.36 (TOC)	20.51	79.03	0.23
S-5	1/25/1994	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	99.36 (TOC)	21.93	77.57	0.18
S-5	4/25/1994	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	99.36 (TOC)	21.97	77.67	0.35
S-5	5/26/1994	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	99.36 (TOC)	20.84	78.80	0.35
S-5	6/10/1994	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	99.36 (TOC)	21.01	78.61	0.32
S-5	7/21/1994	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	99.36 (TOC)	22.18	77.56	0.47
S-5	8/25/1994	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	99.36 (TOC)	22.01	77.70	0.44
S-5	9/22/1994	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	99.36 (TOC)	22.00	77.48	0.15

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S-5	10/24/1994	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	99.36 (TOC)	22.28	77.53	0.56
S-5	12/22/1994	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	22.94*	22.88	0.85	0.99
S-5	4/20/1995	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	22.94	21.66	1.54	0.33
S-5	10/4/1995	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	22.94	22.18	0.76	NA
S-5	1/3/1996	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	22.94	22.80	0.80	0.83
S-5	4/11/1996	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	22.94	21.15	2.33	0.67
S-5	7/11/1996	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	22.94	22.62	1.04	0.90
S-5	10/2/1996	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	22.94	23.07	0.38	0.64
S-5	1/22/1997	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	22.94	20.83	2.24	0.16
S-5	7/21/1997	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	22.94	21.16	1.82	0.05
S-5	1/22/1998	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	22.94	20.04	2.93	0.04
S-5	7/8/1998	220	14	40	5.8	34	3.3	NA	NA	NA	NA	NA	NA	NA	22.94	18.61	4.33	NA
S-5	10/26/1998	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	22.94	17.31	5.63	NA
S-5	1/28/1999	51000	13000	1200	1200	2400	2400	NA	NA	NA	NA	NA	NA	NA	22.94	20.11	2.83	NA
S-5	4/23/1999	65600	2540	7300	1790	9840	<1000	NA	NA	NA	NA	NA	NA	NA	22.94	19.21	3.73	NA
S-5	7/29/1999	61400	3320	6980	1520	7700	<1000	NA	NA	NA	NA	NA	NA	NA	22.94	14.77	8.17	NA
S-5	11/1/1999	48200	2700	5740	1290	7850	<500	<40.0	NA	NA	NA	NA	NA	NA	22.94	15.56	7.38	NA
S-5	1/7/2000	39000	3900	8500	790	8300	1500	NA	NA	NA	NA	NA	NA	NA	22.94	18.19	4.75	NA
S-5	4/11/2000	29300	1680	5060	1130	6220	<250	NA	NA	NA	NA	NA	NA	NA	22.94	18.19	4.75	NA
S-5	7/19/2000	6420	2110	207	252	681	355	253 b	NA	NA	NA	NA	NA	NA	22.94	19.01	3.93	NA
S-5	10/12/2000	41500	2940	4940	1520	7770	<250	<66.7	NA	NA	NA	NA	NA	NA	22.94	19.62	3.32	NA
S-5	1/9/2001	142000	7030	9550	2340	12600	779	NA	NA	NA	NA	NA	NA	NA	22.94	19.94	3.00	NA
S-5	4/6/2001	Well inaccessible		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	22.94	NA	NA	NA
S-5	4/13/2001	59800	4810	10800	1950	10100	842	<10.0	NA	NA	NA	NA	NA	NA	22.94	14.72	8.22	NA
S-5	7/25/2001	71000	2900	6800	1700	9100	NA	<250	NA	NA	NA	NA	NA	NA	22.94	14.91	8.03	NA
S-5	8/13/2001	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	22.94	19.43	3.51	NA
S-5	11/1/2001	Unable to locate		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	22.94	NA	NA	NA
S-5	01/17/2002 d	58000	460	3300	1900	8400	NA	<200	NA	NA	NA	NA	NA	NA	c	14.27	NA	NA
S-5	05/08/2002 d	60000	650	2700	1800	8800	NA	<100	NA	NA	NA	NA	NA	NA	22.94	18.40	4.54	NA
S-5	7/18/2002	53000	240	1200	1500	6400	NA	<100	NA	NA	NA	NA	NA	NA	27.36	14.25	13.11	NA
S-5	10/15/2002	Well inaccessible		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	27.36	NA	NA	NA
S-5	10/17/2002	42000	420	1100	1200	5500	NA	<10	NA	NA	NA	NA	NA	NA	27.36	14.90	12.46	NA
S-5	1/2/2003	26000	680	1500	780	3800	NA	<5.0	NA	NA	NA	NA	NA	NA	27.36	14.72	12.64	NA
S-5	4/15/2003	3600	29	38	65	370	NA	<5.0	NA	NA	NA	NA	NA	NA	e	14.45	NA	NA

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S-5	7/14/2003	21000	210	460	650	2900	NA	<10	NA	NA	NA	NA	NA	NA	e	14.10	NA	NA
S-5	10/20/2003	37000	390	590	870	3500	NA	<13	NA	NA	NA	NA	NA	NA	e	14.63	NA	NA
S-5	1/22/2004	29000	200	210	710	2400	NA	<13	NA	NA	NA	NA	NA	NA	e	14.08	NA	NA
S-5	4/19/2004	25000	490	460	750	2400	NA	19	NA	NA	NA	NA	NA	NA	e	13.43	NA	NA
S-5	7/13/2004	28000	300	280	690	2400	NA	<13	NA	NA	NA	NA	NA	NA	e	14.88	NA	NA
S-5	8/14/2008	31,000	1,700	1,600	1,400	3,350	NA	<10	NA	NA	NA	NA	<5.0	<10	e	16.65	NA	NA
S-6	4/16/1987	81000	16000	9000	NA	6400 a	NA	NA	NA	NA	NA	NA	NA	NA	100.58 (TOC)	NA	NA	NA
S-6	10/26/1988	110000	29000	18000	2500	8200	NA	NA	NA	NA	NA	NA	NA	NA	100.58 (TOC)	NA	NA	NA
S-6	2/14/1989	54000	18000	4500	1400	4000	NA	NA	NA	NA	NA	NA	NA	NA	100.58 (TOC)	20.87	79.71	NA
S-6	5/1/1989	93000	43000	9900	3000	8000	NA	NA	NA	NA	NA	NA	NA	NA	100.58 (TOC)	20.49	80.09	NA
S-6	7/27/1989	52000	20000	3200	1700	5500	NA	NA	NA	NA	NA	NA	NA	NA	100.58 (TOC)	21.01	79.57	NA
S-6	10/5/1989	55000	20000	2900	1600	5500	NA	NA	NA	NA	NA	NA	NA	NA	100.58 (TOC)	21.24	79.34	NA
S-6	1/9/1990	76000	35000	9100	2300	8600	NA	NA	NA	NA	NA	NA	NA	NA	100.58 (TOC)	22.62	77.96	SHEEN
S-6	4/30/1990	39000	13000	2300	900	2800	NA	NA	NA	NA	NA	NA	NA	NA	100.58 (TOC)	22.10	78.48	NA
S-6	7/31/1990	48000	20000	4600	1500	4900	NA	NA	NA	NA	NA	NA	NA	NA	100.58 (TOC)	22.00	78.58	NA
S-6	10/30/1990	27000	7400	900	600	1400	NA	NA	NA	NA	NA	NA	NA	NA	100.58 (TOC)	22.14	78.44	NA
S-6	5/6/1991	35000	3900	2700	2300	3500	NA	NA	NA	NA	NA	NA	NA	NA	100.58 (TOC)	22.40	78.18	NA
S-6	6/27/1991	51000	19000	5600	1700	6300	NA	NA	NA	NA	NA	NA	NA	NA	100.58 (TOC)	21.21	79.37	NA
S-6	9/24/1991	42000	14000	4300	1200	4000	NA	NA	NA	NA	NA	NA	NA	NA	100.58 (TOC)	22.26	78.32	NA
S-6	11/7/1991	39000	11000	2000	800	2300	NA	NA	NA	NA	NA	NA	NA	NA	100.58 (TOC)	22.35	78.23	NA
S-6	2/13/1992	64000	21000	6200	1600	5100	NA	NA	NA	NA	NA	NA	NA	NA	100.58 (TOC)	22.28	78.30	NA
S-6	5/11/1992	57000	22000	7600	2200	7700	NA	NA	NA	NA	NA	NA	NA	NA	100.58 (TOC)	22.10	78.48	NA
S-6	12/3/1992	110000	26000	9400	2100	8700	NA	NA	NA	NA	NA	NA	NA	NA	100.58 (TOC)	22.14	78.44	NA
S-6	5/13/1993	58000	21000	6800	2500	9800	NA	NA	NA	NA	NA	NA	NA	NA	100.58 (TOC)	22.16	78.42	NA
S-6	7/22/1993	70000	31000	14000	3000	13000	NA	NA	NA	NA	NA	NA	NA	NA	100.58 (TOC)	21.64	78.94	NA
S-6	10/20/1993	48000	28000	9800	3200	12000	NA	NA	NA	NA	NA	NA	NA	NA	100.58 (TOC)	21.62	78.96	NA
S-6	1/25/1994	70000	23000	7500	2500	8000	NA	NA	NA	NA	NA	NA	NA	NA	100.58 (TOC)	21.80	78.78	NA
S-6	4/25/1994	61000	16000	4000	1800	5100	NA	NA	NA	NA	NA	NA	NA	NA	100.58 (TOC)	21.68	78.90	NA
S-6	7/21/1994	44000	8200	3600	1400	3900	NA	NA	NA	NA	NA	NA	NA	NA	100.58 (TOC)	21.78	78.80	NA
S-6 (D)	7/21/1994	32000	7800	3400	1300	3700	NA	NA	NA	NA	NA	NA	NA	NA	22.08	NA	NA	NA
S-6	10/24/1994	2936	1184	440.6	163	648.4	NA	NA	NA	NA	NA	NA	NA	NA	100.58 (TOC)	22.06	78.52	NA
S-6 (D)	10/24/1994	2968	770.8	325.3	144	622	NA	NA	NA	NA	NA	NA	NA	NA	22.08	NA	NA	NA
S-6	12/22/1994	32000	7000	2900	790	2400	NA	NA	NA	NA	NA	NA	NA	NA	22.08*	21.91	0.17	NA

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S-6 (D)	12/22/1994	32000	8000	3800	1100	3400	NA	NA	NA	NA	NA	NA	NA	NA	22.08	NA	NA	NA
S-6	4/20/1995	56000	15000	3800	1900	4900	NA	NA	NA	NA	NA	NA	NA	NA	22.08	21.38	0.70	NA
S-6 (D)	4/20/1995	49000	13000	3500	1800	4700	NA	NA	NA	NA	NA	NA	NA	NA	22.08	NA	NA	NA
S-6	10/4/1995	49000	8400	4700	1800	4800	NA	NA	NA	NA	NA	NA	NA	NA	22.08	21.80	0.28	NA
S-6 (D)	10/4/1995	41000	8400	4100	1400	4400	NA	NA	NA	NA	NA	NA	NA	NA	22.08	NA	NA	NA
S-6	1/3/1996	52000	9100	7100	1800	5800	NA	NA	NA	NA	NA	NA	NA	NA	22.08	21.70	0.38	NA
S-6	4/11/1996	59000	11000	7100	2100	6400	<500	NA	NA	NA	NA	NA	NA	NA	22.08	21.62	0.46	NA
S-6 (D)	4/11/1996	59000	11000	6800	1900	6400	<500	NA	NA	NA	NA	NA	NA	NA	22.08	NA	NA	NA
S-6	7/11/1996	72000	18000	6600	2500	8400	<1000	NA	NA	NA	NA	NA	NA	NA	22.08	21.65	2.78	NA
S-6	10/2/1996	57000	11000	6500	1500	5100	<500	NA	NA	NA	NA	NA	NA	NA	22.08	21.80	2.63	NA
S-6	1/22/1997	67000	15000	5000	1800	5400	<1000	NA	NA	NA	NA	NA	NA	NA	22.08	19.95	2.13	NA
S-6 (D)	1/22/1997	63000	15000	4800	1800	5200	<1000	NA	NA	NA	NA	NA	NA	NA	22.08	NA	NA	NA
S-6	7/21/1997	61000	15000	2100	1100	3500	1900	NA	NA	NA	NA	NA	NA	NA	22.08	20.61	1.47	NA
S-6	1/22/1998	46000	14000	3200	1300	3400	<500	NA	NA	NA	NA	NA	NA	NA	22.08	19.82	2.26	NA
S-6	7/8/1998	74000	26000	7500	2200	6200	<1000	NA	NA	NA	NA	NA	NA	NA	22.08	18.20	3.88	NA
S-6	10/26/1998	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	22.08	18.81	3.27	NA
S-6	1/28/1999	120000	9000	14000	2700	14000	3700	NA	NA	NA	NA	NA	NA	NA	22.08	19.73	2.35	NA
S-6	4/23/1999	58500	15900	1360	1640	3030	<2500	NA	NA	NA	NA	NA	NA	NA	22.08	17.58	4.50	NA
S-6	7/29/1999	36200	10300	760	930	1360	<1000	NA	NA	NA	NA	NA	NA	NA	22.08	21.35	0.73	NA
S-6	11/1/1999	36000	11700	767	865	1670	<1250	<40.0	NA	NA	NA	NA	NA	NA	22.08	19.23	2.85	NA
S-6	1/7/2000	36000	7600	4600	840	3600	<1000	NA	NA	NA	NA	NA	NA	NA	22.08	19.53	2.55	NA
S-6	4/11/2000	14600	7540	205	306	609	621	NA	NA	NA	NA	NA	NA	NA	22.08	18.16	3.92	NA
S-6	7/19/2000	2590	629	63.9	99.6	267	124	72.7 b	NA	NA	NA	NA	NA	NA	22.08	18.40	3.68	NA
S-6	10/12/2000	32900	14200	966	1060	1790	<500	<100	NA	NA	NA	NA	NA	NA	22.08	19.52	2.56	NA
S-6	1/9/2001	27600	11200	675	666	1580	1430	<10.0 b	NA	NA	NA	NA	NA	NA	22.08	19.69	2.39	NA
S-6	2/5/2001	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	22.08	19.20	2.88	NA
S-6	4/6/2001	16900	7800	343	172	966	809	<20.0	NA	NA	NA	NA	NA	NA	22.08	18.25	3.83	NA
S-6	7/25/2001	29000	9800	1700	1000	1800	NA	<250	NA	NA	NA	NA	NA	NA	22.08	18.27	3.81	NA
S-6	11/1/2001	41000	15000	2400	1100	2500	NA	<500	NA	NA	NA	NA	NA	NA	22.08	19.30	2.78	NA
S-6	01/17/2002 d	38000	11000	1700	990	2200	NA	<500	NA	NA	NA	NA	NA	NA	22.08	18.51	3.57	NA
S-6	5/8/2002	72000	21000	4400	2200	5300	NA	<1000	NA	NA	NA	NA	NA	NA	22.08	18.30	3.78	NA
S-6	7/18/2002	71000	17000	4300	1700	4800	NA	<1000	NA	NA	NA	NA	NA	NA	30.56	18.19	12.37	NA
S-6	10/15/2002	55000	16000	4600	1500	4600	NA	<100	NA	NA	NA	NA	NA	NA	30.56	18.77	11.79	NA
S-6	1/2/2003	75000	21000	5000	2400	6400	NA	<50	NA	NA	NA	NA	NA	NA	30.56	18.60	11.96	NA

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S-6	4/15/2003	64000	29000	6400	2700	5600	NA	<1000	NA	NA	NA	NA	NA	NA	30.56	18.27	12.29	NA
S-6	7/14/2003	47000	19000	4300	1500	4300	NA	<100	NA	NA	NA	NA	NA	NA	30.56	18.05	12.51	NA
S-6	10/20/2003	63000	21000	5800	1900	5200	NA	<130	NA	NA	NA	NA	NA	NA	30.56	18.55	12.01	f
S-6	1/22/2004	41000	21000	4300	1800	4000	NA	<130	NA	NA	NA	NA	NA	NA	30.56	18.18	12.38	f
S-6	4/19/2004	58000	23000	4200	2200	3900	NA	<130	NA	NA	NA	NA	NA	NA	30.56	17.32	13.24	NA
S-6	5/3/2004	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	30.56	17.30	13.26	NA
S-6	6/17/2004	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	30.56	17.70	12.86	NA
S-6	7/13/2004	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	30.56	17.85	12.71	NA
S-6	10/28/2004 g	45000	21000	3600	1700	3300	NA	<130	NA	NA	NA	NA	NA	NA	30.56	18.45	12.11	NA
S-6	1/17/2005	61000	21000	3500	1600	3200	NA	<130	NA	NA	NA	NA	NA	NA	30.56	17.52	13.04	NA
S-6	4/14/2005	36000	12000	6200	850	4800	NA	<50	NA	NA	NA	NA	NA	NA	30.56	22.49	8.07	NA
S-6	7/28/2005	54000	16000	9100	1800	-5900	NA	<130	NA	NA	NA	NA	NA	NA	30.56	19.38	11.18	NA
S-6	10/5/2005	59000	14000	7500	1400	5000	NA	<50	NA	NA	NA	NA	NA	NA	30.56	18.32	12.24	NA
S-6	2/9/2006	41100	7060	3900	673	2380	NA	<0.500	NA	NA	NA	NA	NA	NA	30.56	17.11	13.45	NA
S-6	5/15/2006	188000	24800	20700	2540	12400	NA	<25.0	NA	NA	NA	NA	NA	NA	30.56	19.80	10.76	NA
S-6	8/23/2006	133000	24900	16100	2280	10500	NA	<0.500	NA	NA	NA	NA	NA	NA	30.56	20.45	10.11	NA
S-6	11/15/2006	66000	19000	8400	1900	7400	NA	<400	NA	NA	NA	NA	NA	NA	30.56	20.41	10.15	NA
S-6	1/30/2007	88000	18000	9600	1900	7200	NA	<100	NA	NA	NA	NA	NA	NA	30.56	20.47	10.09	NA
S-6	5/29/2007	56000 h	17000	6700	1700	5400	NA	<20	NA	NA	NA	NA	NA	NA	30.56	20.40	10.16	NA
S-6	8/15/2007	57000 h,i	15000	6800	1600	6100	NA	<100	NA	NA	NA	NA	NA	NA	30.56	20.49	10.07	NA
S-6	11/28/2007	42000 h	13000	5000	1300	5000	NA	<100	NA	NA	NA	NA	NA	NA	30.56	20.65	9.91	NA
S-6	2/8/2008	35000 h	12000	5000	1200	4050	NA	<100	NA	NA	NA	NA	<50	<100	30.56	20.31	10.25	NA
S-6	5/8/2008	45000 h	15000	6100	1400	5000	NA	<100	NA	NA	NA	NA	<50	<100	30.56	20.63	9.93	NA
S-6	8/14/2008	37,000	11,000	5,200	1,200	4,600	NA	<100	NA	NA	NA	NA	<50	<100	30.56	20.65	9.91	NA
S-8	12/22/1994	600	120	32	5.2	34	NA	NA	NA	NA	NA	NA	NA	NA	27.21	24.87	2.34	NA
S-8	4/20/1995	460	180	23	5.2	21	NA	NA	NA	NA	NA	NA	NA	NA	27.21	23.90	3.31	NA
S-8	10/4/1995	830	210	38	11	42	NA	NA	NA	NA	NA	NA	NA	NA	27.21	24.48	2.73	NA
S-8	1/3/1996	350	61	12	2.5	12	NA	NA	NA	NA	NA	NA	NA	NA	27.21	24.62	2.59	NA
S-8 (D)	1/3/1996	340	54	12	2.4	12	NA	NA	NA	NA	NA	NA	NA	NA	27.21	NA	NA	NA
S-8	4/11/1996	570	140	37	12	47	<6.2	NA	NA	NA	NA	NA	NA	NA	27.21	24.32	2.89	NA
S-8	7/11/1996	980	98	32	9.1	160	<12	NA	NA	NA	NA	NA	NA	NA	27.21	24.10	3.11	NA
S-8	10/2/1996	280	62	13	3.3	25	15	NA	NA	NA	NA	NA	NA	NA	27.21	25.38	1.83	NA
S-8 (D)	10/2/1996	490	110	24	7.0	45	22	<2.0	NA	NA	NA	NA	NA	NA	27.21	NA	NA	NA

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S-8	1/22/1997	400	90	13	4.9	25	12	NA	NA	NA	NA	NA	NA	NA	27.21	23.91	3.30	NA
S-8	7/21/1997	2900	380	110	26	260	85	NA	NA	NA	NA	NA	NA	NA	27.21	23.62	3.59	NA
S-8 (D)	7/21/1997	3200	420	120	32	300	130	NA	NA	NA	NA	NA	NA	NA	27.21	NA	NA	NA
S-8	1/22/1998	3800	790	140	42	330	160	NA	NA	NA	NA	NA	NA	NA	27.21	23.52	3.69	NA
S-8 (D)	1/22/1998	3500	780	120	33	300	160	NA	NA	NA	NA	NA	NA	NA	27.21	NA	NA	NA
S-8	7/8/1998	3600	1800	<25	<25	<25	<125	NA	NA	NA	NA	NA	NA	NA	27.21	21.52	5.69	NA
S-8 (D)	7/8/1998	4000	1800	<25	<25	31	<125	NA	NA	NA	NA	NA	NA	NA	27.21	NA	NA	NA
S-8	10/26/1998	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	27.21	22.01	5.20	NA
S-8	1/28/1999	2000	630	6.2	24	51	43	NA	NA	NA	NA	NA	NA	NA	27.21	23.03	4.18	NA
S-8	4/23/1999	1050	408	<5.00	<5.00	6.65	<50.0	NA	NA	NA	NA	NA	NA	NA	27.21	22.15	5.06	NA
S-8	7/29/1999	955	344	<2.50	6.90	16.2	<25.0	NA	NA	NA	NA	NA	NA	NA	27.21	21.95	5.26	NA
S-8	11/1/1999	1800	550	6.45	15	40.4	<50.0	NA	NA	NA	NA	NA	NA	NA	27.21	22.55	4.66	NA
S-8	1/7/2000	1300	600	11	29	48	<13	NA	NA	NA	NA	NA	NA	NA	27.21	22.87	4.34	NA
S-8	4/11/2000	342	101	4.42	4.24	14.7	21.4	NA	NA	NA	NA	NA	NA	NA	27.21	21.86	5.35	NA
S-8	7/19/2000	579	228	6.37	6.45	25.0	<12.5	NA	NA	NA	NA	NA	NA	NA	27.21	21.93	5.28	NA
S-8	10/12/2000	947	340	8.64	3.26	38.3	<12.5	<2.00	NA	NA	NA	NA	NA	NA	27.21	22.92	4.29	NA
S-8	1/9/2001	1090	394	<10.0	<10.0	33.3	57.6	NA	NA	NA	NA	NA	NA	NA	27.21	23.19	4.02	NA
S-8	4/6/2001	671	182	12.5	16.4	47.1	42.5	NA	NA	NA	NA	NA	NA	NA	27.21	22.46	4.75	NA
S-8	7/25/2001	500	70	6.7	11	23	NA	<5.0	NA	NA	NA	NA	NA	NA	27.21	22.50	4.71	NA
S-8	11/1/2001	1900	250	28	39	180	NA	<5.0	NA	NA	NA	NA	NA	NA	27.21	22.44	4.77	NA
S-8	01/17/2002 d	830	140	11	12	89	NA	<5.0	NA	NA	NA	NA	NA	NA	27.21	21.82	5.39	NA
S-8	05/08/2002 d	210	34	1.7	4.1	15	NA	<5.0	NA	NA	NA	NA	NA	NA	27.21	21.35	5.86	NA
S-8	7/18/2002	650	68	2.8	9.7	42	NA	<5.0	NA	NA	NA	NA	NA	NA	35.85	21.53	14.32	NA
S-8	10/15/2002	1000	160	4.2	7.7	74	NA	<0.50	NA	NA	NA	NA	NA	NA	35.85	21.97	13.88	NA
S-8	1/2/2003	440	55	1.8	2.9	31	NA	<0.50	NA	NA	NA	NA	NA	NA	35.85	21.95	13.90	NA
S-8	4/15/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	35.85	21.73	14.12	NA
S-8	7/14/2003	60	6.8	<0.50	0.98	4.9	NA	<0.50	NA	NA	NA	NA	NA	NA	35.85	21.40	14.45	NA
S-8	10/20/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	35.85	21.94	13.91	NA
S-8	1/22/2004	210	19	0.52	3.6	17	NA	<0.50	NA	NA	NA	NA	NA	NA	35.85	21.40	14.45	NA
S-8	4/19/2004	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	35.85	20.83	15.02	NA
S-8	7/13/2004	420	77	0.82	14	31	NA	<0.50	NA	NA	NA	NA	NA	NA	35.85	21.05	14.80	NA
S-8	10/28/2004	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	35.85	21.77	14.08	NA
S-8	1/17/2005	490	85	0.89	13	28	NA	<0.50	NA	NA	NA	NA	NA	NA	35.85	20.92	14.93	NA
S-8	4/14/2005	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	35.85	21.57	14.28	NA

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S-8	7/28/2005	64	12	<0.50	1.5	1.6	NA	<0.50	NA	NA	NA	NA	NA	NA	35.85	21.62	14.23	NA
S-8	10/5/2005	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	35.85	21.11	14.74	NA
S-8	2/9/2006	<50.0	2.79	<0.500	<0.500	<0.500	NA	<0.500	NA	NA	NA	NA	NA	NA	35.85	20.18	15.67	NA
S-8	5/15/2006	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	35.85	20.53	15.32	NA
S-8	8/23/2006	<50.0	<0.500	<0.500	<0.500	<0.500	NA	<0.500	NA	NA	NA	NA	NA	NA	35.85	21.49	14.36	NA
S-8	11/15/2006	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	35.85	22.05	13.80	NA
S-8	1/30/2007	<50	<0.50	<0.50	<0.50	<1.0	NA	<0.50	NA	NA	NA	NA	NA	NA	35.85	22.41	13.44	NA
S-8	5/29/2007	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	35.85	22.65	13.20	NA
S-8	8/15/2007	65 h,i	7.4	<1.0	<1.0	<1.0	NA	<1.0	NA	NA	NA	NA	NA	NA	35.85	22.88	12.97	NA
S-8	11/28/2007	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	35.85	23.20	12.65	NA
S-8	2/8/2008	350 h	22	<1.0	4.8	2.6	NA	1.2	NA	NA	NA	NA	<0.50	<1.0	35.85	22.72	13.13	NA
S-8	5/8/2008	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	35.85	22.91	12.94	NA
S-8	8/14/2008	420	28	<1.0	6.3	1.4	NA	<1.0	NA	NA	NA	NA	<0.50	<1.0	35.85	23.12	12.73	NA

S-9	12/22/1994	2600	400	150	42	310	NA	NA	NA	NA	NA	NA	NA	NA	26.06	24.37	1.69	NA
S-9	4/20/1995	1900	400	130	51	200	NA	NA	NA	NA	NA	NA	NA	NA	26.06	23.49	2.57	NA
S-9	10/4/1995	3200	590	260	68	280	NA	NA	NA	NA	NA	NA	NA	NA	26.06	24.01	2.05	NA
S-9	1/3/1996	Well inaccessible		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	26.06	NA	NA	NA
S-9	4/11/1996	2100	440	1500	42	210	<25	NA	NA	NA	NA	NA	NA	NA	26.06	23.61	2.45	NA
S-9	7/11/1996	5200	940	450	120	520	<50	NA	NA	NA	NA	NA	NA	NA	26.06	23.78	2.28	NA
S-9 (D)	7/11/1996	4800	890	430	110	500	<50	NA	NA	NA	NA	NA	NA	NA	26.06	NA	NA	NA
S-9	10/2/1996	3000	680	220	56	270	<62	NA	NA	NA	NA	NA	NA	NA	26.06	24.31	1.75	NA
S-9	1/22/1997	1500	230	71	36	130	<12	NA	NA	NA	NA	NA	NA	NA	26.06	23.08	2.98	NA
S-9	7/21/1997	3400	590	57	19	210	96	NA	NA	NA	NA	NA	NA	NA	26.06	22.83	3.23	NA
S-9	1/22/1998	2600	300	46	<10	270	62	NA	NA	NA	NA	NA	NA	NA	26.06	21.96	4.10	NA
S-9	7/8/1998	820	150	6.2	8	57	<10	NA	NA	NA	NA	NA	NA	NA	26.06	20.85	5.21	NA
S-9	10/26/1998	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	26.06	21.39	4.67	NA
S-9	1/28/1999	<50	1.0	<0.50	<0.50	<0.50	<2.5	NA	NA	NA	NA	NA	NA	NA	26.06	22.32	3.74	NA
S-9	4/23/1999	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	26.06	21.41	4.65	NA
S-9	7/29/1999	117	7.77	0.817	0.683	5.05	<5.00	NA	NA	NA	NA	NA	NA	NA	26.06	21.25	4.81	NA
S-9	11/1/1999	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	26.06	21.92	4.14	NA
S-9	1/7/2000	<50	1.2	<0.50	<0.50	<0.50	<2.5	NA	NA	NA	NA	NA	NA	NA	26.06	22.11	3.95	NA
S-9	4/11/2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	26.06	21.14	4.92	NA
S-9	7/19/2000	Well inaccessible		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	26.06	NA	NA	NA

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S-9	10/12/2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	26.06	22.24	3.82	NA
S-9	1/9/2001	<50.0	1.45	<0.500	<0.500	<0.500	<2.50	NA	NA	NA	NA	NA	NA	NA	26.06	22.52	3.54	NA
S-9	4/6/2001	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	26.06	23.61	2.45	NA
S-9	7/25/2001	Well inaccessible		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	26.06	NA	NA	NA
S-9	8/13/2001	Well inaccessible		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	26.06	NA	NA	NA
S-9	11/1/2001	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	26.06	21.78	4.28	NA
S-9	01/17/2002 d	<50	<0.50	<0.50	<0.50	<0.50	NA	<5.0	NA	NA	NA	NA	NA	NA	26.06	21.15	4.91	NA
S-9	5/8/2002	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	26.06	20.56	5.50	NA
S-9	7/18/2002	<50	<0.50	<0.50	<0.50	<0.50	NA	<5.0	NA	NA	NA	NA	NA	NA	34.70	20.88	13.82	NA
S-9	10/15/2002	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	34.70	21.41	13.29	NA
S-9	1/2/2003	<50	<0.50	<0.50	<0.50	<0.50	NA	<5.0	NA	NA	NA	NA	NA	NA	34.70	21.35	13.35	NA
S-9	4/15/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	34.70	21.14	13.56	NA
S-9	7/14/2003	<50	<0.50	<0.50	<0.50	<1.0	NA	<0.50	NA	NA	NA	NA	NA	NA	34.70	20.80	13.90	NA
S-9	10/20/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	34.70	21.33	13.37	NA
S-9	1/22/2004	<50	<0.50	<0.50	<0.50	<1.0	NA	<0.50	NA	NA	NA	NA	NA	NA	34.70	20.77	13.93	NA
S-9	4/19/2004	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	34.70	20.06	14.64	NA
S-9	7/13/2004	<50	<0.50	<0.50	<0.50	<1.0	NA	<0.50	NA	NA	NA	NA	NA	NA	34.70	20.44	14.26	NA
S-9	10/28/2004	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	34.70	21.02	13.68	NA
S-9	1/17/2005	<50	<0.50	<0.50	<0.50	<1.0	NA	<0.50	NA	NA	NA	NA	NA	NA	34.70	20.18	14.52	NA
S-9	4/14/2005	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	34.70	21.85	12.85	NA
S-9	7/28/2005	360	190	1.8	1.1	3.9	NA	<0.50	<2.0	<2.0	<2.0	<5.0	NA	NA	34.70	21.22	13.48	NA
S-9	10/5/2005	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	34.70	20.63	14.07	NA
S-9	2/9/2006	<50.0	0.940	<0.500	<0.500	<0.500	NA	<0.500	NA	NA	NA	NA	NA	NA	34.70	19.23	15.47	NA
S-9	5/15/2006	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	34.70	20.28	14.42	NA
S-9	8/23/2006	7000	1740	55.6	193	278	NA	<0.500	<0.500	<0.500	<0.500	<10.0	NA	NA	34.70	21.31	13.39	NA
S-9	11/15/2006	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	34.70	21.79	12.91	NA
S-9	1/30/2007	12000	2200	250	480	980	NA	<0.50	NA	NA	NA	NA	NA	NA	34.70	22.08	12.62	NA
S-9	5/29/2007	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	34.70	22.22	12.48	NA
S-9	8/15/2007	9800 h,i	2400	100	410	602	NA	<10	<20	<20	<20	<100	NA	NA	34.70	22.43	12.27	NA
S-9	11/28/2007	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	34.70	22.75	11.95	NA
S-9	2/8/2008	69 h	2.2	<1.0	<1.0	<1.0	NA	<1.0	NA	NA	NA	NA	<0.50	<1.0	34.70	22.31	12.39	NA
S-9	5/8/2008	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	34.70	22.49	12.21	NA
S-9	8/14/2008	<50	<0.50	<1.0	<1.0	<1.0	NA	<1.0	NA	NA	NA	NA	<0.50	<1.0	34.70	22.70	12.00	NA

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S-10	12/22/1994	420	27	8.0	18	45	NA	NA	NA	NA	NA	NA	NA	NA	28.04	25.84	2.20	NA
S-10	4/20/1995	820	49	3.7	97	52	NA	NA	NA	NA	NA	NA	NA	NA	28.04	24.92	3.12	NA
S-10	10/4/1995	240	6.5	1.1	16	12	NA	NA	NA	NA	NA	NA	NA	NA	28.04	25.47	2.57	NA
S-10	1/3/1996	1100	27	4.9	110	70	NA	NA	NA	NA	NA	NA	NA	NA	28.04	25.60	2.44	NA
S-10	4/11/1996	530	19	1.6	82	52	<5.0	NA	NA	NA	NA	NA	NA	NA	28.04	25.27	2.77	NA
S-10	7/11/1996	570	16	3.2	53	53	<2.5	NA	NA	NA	NA	NA	NA	NA	28.04	25.46	2.58	NA
S-10	10/2/1996	270	8.2	0.77	24	23	3.3	NA	NA	NA	NA	NA	NA	NA	28.04	25.81	2.23	NA
S-10	1/22/1997	160	4.8	0.73	16	11	<2.5	NA	NA	NA	NA	NA	NA	NA	28.04	24.74	3.30	NA
S-10	7/21/1997	530	5.7	0.70	29	69	<2.5	NA	NA	NA	NA	NA	NA	NA	28.04	24.50	3.54	NA
S-10	1/22/1998	1500	15	<5.0	88	130	<25	NA	NA	NA	NA	NA	NA	NA	28.04	24.44	3.60	NA
S-10	7/8/1998	530	4.8	1.1	47	51	<2.5	NA	NA	NA	NA	NA	NA	NA	28.04	22.36	5.68	NA
S-10	10/26/1998	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	28.04	22.81	5.23	NA
S-10	1/28/1999	630	4.6	0.98	<0.50	59	<2.5	NA	NA	NA	NA	NA	NA	NA	28.04	23.82	4.22	NA
S-10	4/23/1999	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	28.04	22.96	5.08	NA
S-10	7/29/1999	728	3.40	<1.00	41.8	38.0	<10.0	NA	NA	NA	NA	NA	NA	NA	28.04	22.63	5.41	NA
S-10	11/1/1999	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	28.04	23.02	5.02	NA
S-10	1/7/2000	870	8.5	1.3	110	110	<2.5	NA	NA	NA	NA	NA	NA	NA	28.04	23.33	4.71	NA
S-10	4/11/2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	28.04	22.64	5.40	NA
S-10	7/19/2000	612	3.75	<0.500	41.6	43.6	<2.50	NA	NA	NA	NA	NA	NA	NA	28.04	23.04	5.00	NA
S-10	10/12/2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	28.04	23.92	4.12	NA
S-10	1/9/2001	647	7.62	1.01	66.2	42.4	<2.50	NA	NA	NA	NA	NA	NA	NA	28.04	24.13	3.91	NA
S-10	4/6/2001	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	28.04	25.37	2.67	NA
S-10	7/25/2001	340	1.5	<0.50	42	19	NA	<5.0	NA	NA	NA	NA	NA	NA	28.04	25.35	2.69	NA
S-10	11/1/2001	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	28.04	23.22	4.82	NA
S-10	01/17/2002 d	1100	3.5	<0.50	55	46	NA	<5.0	NA	NA	NA	NA	NA	NA	28.04	22.72	5.32	NA
S-10	5/8/2002	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	28.04	22.35	5.69	NA
S-10	7/18/2002	750	1.8	<0.50	42	26	NA	<5.0	NA	NA	NA	NA	NA	NA	36.35	22.05	14.30	NA
S-10	10/15/2002	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	36.35	22.51	13.84	NA
S-10	1/2/2003	440	1.8	<0.50	14	24	NA	<5.0	NA	NA	NA	NA	NA	NA	36.35	22.50	13.85	NA
S-10	4/15/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	36.35	22.32	14.03	NA
S-10	7/14/2003	210	0.86	<0.50	13	12	NA	<0.50	NA	NA	NA	NA	NA	NA	36.35	21.99	14.36	NA
S-10	10/20/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	36.35	22.53	13.82	NA
S-10	1/22/2004	280	0.88	<0.50	10	11	NA	<0.50	NA	NA	NA	NA	NA	NA	36.35	22.02	14.33	NA
S-10	4/19/2004	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	36.35	21.43	14.92	NA

WELL CONCENTRATIONS
Former Shell Service Station
461 8th Street
Oakland, CA

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	EDC (ug/L)	EDB (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)
S-10	7/13/2004	770	1.5	<0.50	70	42	NA	<0.50	NA	NA	NA	NA	NA	NA	36.35	21.68	14.67	NA
S-10	10/28/2004	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	36.35	22.37	13.98	NA
S-10	1/17/2005	1100	1.5	<0.50	73	51	NA	<0.50	NA	NA	NA	NA	NA	NA	36.35	21.45	14.90	NA
S-10	4/14/2005	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	36.35	22.18	14.17	NA
S-10	7/28/2005	260	<0.50	<0.50	19	9.7	NA	<0.50	<2.0	<2.0	<2.0	<5.0	NA	NA	36.35	22.25	14.10	NA
S-10	10/5/2005	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	36.35	21.70	14.65	NA
S-10	2/9/2006	630	<0.500	<0.500	13.8	13.8	NA	<0.500	NA	NA	NA	NA	NA	NA	36.35	20.37	15.98	NA
S-10	5/15/2006	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	36.35	21.31	15.04	NA
S-10	8/23/2006	<50.0	<0.500	<0.500	14.5	3.40	NA	<0.500	<0.500	<0.500	<0.500	<10.0	NA	NA	36.35	22.12	14.23	NA
S-10	11/15/2006	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	36.35	22.68	13.67	NA
S-10	1/30/2007	120	<0.50	<0.50	7.0	3.3	NA	<0.50	NA	NA	NA	NA	NA	NA	36.35	23.09	13.26	NA
S-10	5/29/2007	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	36.35	23.20	13.15	NA
S-10	8/15/2007	64 h,i	0.15 j	<1.0	1.4	0.72 j	NA	<1.0	<2.0	<2.0	<2.0	<10	NA	NA	36.35	23.48	12.87	NA
S-10	11/28/2007	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	36.35	23.82	12.53	NA
S-10	2/8/2008	61 h	<0.50	<1.0	<1.0	<1.0	NA	<1.0	NA	NA	NA	NA	<0.50	<1.0	36.35	23.31	13.04	NA
S-10	5/8/2008	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	36.35	23.55	12.80	NA
S-10	8/14/2008	58	<0.50	<1.0	2.7	<1.0	NA	<1.0	NA	NA	NA	NA	<0.50	<1.0	36.35	23.75	12.60	NA
S-12	12/17/2007	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	36.44	24.58	11.86	NA
S-12	2/8/2008	55 h	<0.50	<1.0	<1.0	<1.0	NA	<1.0	NA	NA	NA	NA	<0.50	<1.0	36.44	24.32	12.12	NA
S-12	5/8/2008	<50 h	<0.50	<1.0	<1.0	<1.0	NA	<1.0	NA	NA	NA	NA	<0.50	<1.0	36.44	24.51	11.93	NA
S-12	8/14/2008	<50	1.0	<1.0	<1.0	<1.0	NA	<1.0	NA	NA	NA	NA	<0.50	<1.0	36.44	24.63	11.81	NA
S-13	12/17/2007	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	35.16	23.33	11.83	NA
S-13	2/8/2008	14000 h	1900	1300	280	3000	NA	<10	NA	NA	NA	NA	<5.0	<10	35.16	23.01	12.15	NA
S-13	5/8/2008	18000 h	2800	3400	550	3500	NA	<10	NA	NA	NA	NA	<5.0	<10	35.16	23.31	11.85	NA
S-13	8/14/2008	16,000	2,400	3,100	580	3,100	NA	<20	NA	NA	NA	NA	<10	<20	35.16	23.31	11.85	NA
S-14	12/17/2007	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	34.94	22.68	12.26	NA
S-14	2/8/2008	5300 h	380	300	34	970	NA	<10	NA	NA	NA	NA	<5.0	<10	34.94	22.82	12.12	NA
S-14	5/8/2008	4300 h	750	270	30	520	NA	<10	NA	NA	NA	NA	<5.0	<10	34.94	22.41	12.53	NA
S-15	12/17/2007	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	35.34	23.00	12.34	NA
S-15	2/8/2008	55000 h	6700	13000	1100	9800	NA	<10	NA	NA	NA	NA	<5.0	<10	35.34	22.71	12.63	NA

WELL CONCENTRATIONS
Former Shell Service Station
461 8th Street
Oakland, CA

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	EDC (ug/L)	EDB (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)
S-15	5/8/2008	53000 h	6300	13000	1500	7500	NA	<200	NA	NA	NA	NA	<100	<200	35.34	22.91	12.43	NA
S-16	12/17/2007	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	36.08	23.88	12.20	NA
S-16	2/8/2008	6000 h	670	730	88	1290	NA	<5.0	NA	NA	NA	NA	<2.5	<5.0	36.08	23.52	12.56	NA
S-16	5/8/2008	3200 h	670	320	18	580	NA	<10	NA	NA	NA	NA	<5.0	<10	36.08	23.69	12.39	NA
S-17	6/19/2008	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	35.49	23.30	12.19	NA
S-17	6/25/2008	21,000	1,300	1,300	160	2,850	NA	<5.0	NA	NA	NA	NA	<2.5	<5.0	35.49	23.33	12.16	NA
S-17	8/14/2008	14,000	1,700	1,700	310	2,250	NA	<10	NA	NA	NA	NA	<5.0	<10	35.49	23.50	11.99	NA
S-18	6/19/2008	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	35.04	22.94	12.10	NA
S-18	6/25/2008	58,000	2,200	5,600	880	10,200	NA	<10	NA	NA	NA	NA	<5.0	<10	35.04	22.92	12.12	NA
S-18	8/14/2008	25,000	2,500	4,500	860	5,800	NA	<50	NA	NA	NA	NA	<25	<50	35.04	23.08	11.96	NA
AS-1	12/17/2007	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	35.33	22.91	12.42	NA
AS-1	2/8/2008	130 h	1.1	3.4	<1.0	5.4	NA	<1.0	NA	NA	NA	NA	<0.50	<1.0	35.33	22.62	12.71	NA
AS-1	5/8/2008	<50 h	<0.50	<1.0	<1.0	<1.0	NA	<1.0	NA	NA	NA	NA	<0.50	<1.0	35.33	27.78	7.55	NA

WELL CONCENTRATIONS
Former Shell Service Station
461 8th Street
Oakland, CA

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	EDC (ug/L)	EDB (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)
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Abbreviations:

TPPH = Total petroleum hydrocarbons as gasoline by EPA Method 8260B; prior to July 25, 2001, analyzed by EPA Method 8015.

BTEX = Benzene, toluene, ethylbenzene, xylenes by EPA Method 8260B; prior to July 25, 2001, analyzed by EPA Method 8020.

MTBE = Methyl tertiary butyl ether

ETBE = Ethyl tertiary butyl ether, analyzed by EPA Method 8260B.

DIPE = Di-isopropyl 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.

EDC = 1,2-Dichloroethane, analyzed by EPA Method 8260B.

EDB = 1,2-Dibromoethane, analyzed by EPA Method 8260B.

TOC = Top of Casing Elevation

TOB = Top of Wellbox Elevation

SPH = Separate-Phase Hydrocarbons

GW = Groundwater

ug/L = Parts per billion

MSL = Mean sea level

ft. = Feet

<n = Below detection limit

(D) = Duplicate sample

NA = Not applicable

WELL CONCENTRATIONS
Former Shell Service Station
461 8th Street
Oakland, CA

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	EDC (ug/L)	EDB (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)
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Notes:

a = Ethylbenzene and xylenes combined.

b = This sample analyzed outside of EPA recommended holding time.

c = Depth to water measured from Top of Casing; elevation unknown.

d = Grab sampled.

e = Casing broken; Top of Casing elevation unknown.

f = SPH detected at <0.01 feet.

g = S-6 was purged prior to sampling.

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

i = 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.

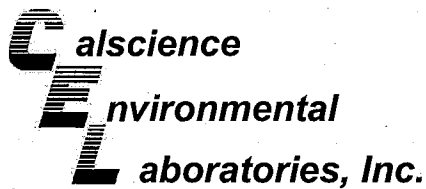
j = Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.

* = Prior to December 22, 1994, well elevations taken from Top of Casing.

Beginning July 18, 2002, well elevations taken from Top of Casing.

Site surveyed March 5, 2002 by Virgil Chavez Land Surveying of Vallejo, CA.

Site surveyed December 18, 2007 by Virgil Chavez Land Surveying of Vallejo, CA.



August 27, 2008

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

Subject: **Calscience Work Order No.: 08-08-1492**
Client Reference: **461 8th Street , Oakland, CA**

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 8/16/2008 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,

A handwritten signature in black ink, appearing to read 'Jessie Kim'.

Calscience Environmental
Laboratories, Inc.
Jessie Kim
Project Manager

Analytical Report



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

Date Received: 08/16/08
 Work Order No: 08-08-1492
 Preparation: EPA 5030B
 Method: LUFT GC/MS / EPA 8260B
 Units: ug/L

Project: 461 8th Street, Oakland, CA

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
S-5	08-08-1492-1-B	08/14/08 09:40	Aqueous	GC/MS W	08/21/08	08/21/08 20:59	080821L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	1700	5.0	10		p/m-Xylene	2800	10	10	
1,2-Dibromoethane	ND	10	10		o-Xylene	550	10	10	
1,2-Dichloroethane	ND	5.0	10		Methyl-t-Butyl Ether (MTBE)	ND	10	10	
Ethylbenzene	1400	10	10		TPPH	31000	500	10	
Toluene	1600	10	10						
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>
Dibromofluoromethane	96	74-140			1,2-Dichloroethane-d4	95	74-146		
Toluene-d8	102	88-112			Toluene-d8-TPPH	101	88-112		
1,4-Bromofluorobenzene	95	74-110							

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
S-6	08-08-1492-2-B	08/14/08 12:20	Aqueous	GC/MS W	08/21/08	08/21/08 21:29	080821L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	11000	50	100		p/m-Xylene	3400	100	100	
1,2-Dibromoethane	ND	100	100		o-Xylene	1200	100	100	
1,2-Dichloroethane	ND	50	100		Methyl-t-Butyl Ether (MTBE)	ND	100	100	
Ethylbenzene	1200	100	100		TPPH	37000	5000	100	
Toluene	5200	100	100						
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>
Dibromofluoromethane	107	74-140			1,2-Dichloroethane-d4	108	74-146		
Toluene-d8	94	88-112			Toluene-d8-TPPH	93	88-112		
1,4-Bromofluorobenzene	96	74-110							

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
S-8	08-08-1492-3-A	08/14/08 10:30	Aqueous	GC/MS W	08/20/08	08/21/08 11:11	080820L02

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	28	0.50	1		p/m-Xylene	1.4	1.0	1	
1,2-Dibromoethane	ND	1.0	1		o-Xylene	ND	1.0	1	
1,2-Dichloroethane	ND	0.50	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	
Ethylbenzene	6.3	1.0	1		TPPH	420	50	1	
Toluene	ND	1.0	1						
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>
Dibromofluoromethane	102	74-140			1,2-Dichloroethane-d4	105	74-146		
Toluene-d8	99	88-112			Toluene-d8-TPPH	98	88-112		
1,4-Bromofluorobenzene	95	74-110							

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

Analytical Report



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

Date Received: 08/16/08
 Work Order No: 08-08-1492
 Preparation: EPA 5030B
 Method: LUFT GC/MS / EPA 8260B
 Units: ug/L

Project: 461 8th Street , Oakland, CA

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
S-9	08-08-1492-4-A	08/14/08 10:50	Aqueous	GC/MS W	08/20/08	08/21/08 11:41	080820L02

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.50	1		p/m-Xylene	ND	1.0	1	
1,2-Dibromoethane	ND	1.0	1		o-Xylene	ND	1.0	1	
1,2-Dichloroethane	ND	0.50	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	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	107	74-140			1,2-Dichloroethane-d4	107	74-146		
Toluene-d8	98	88-112			Toluene-d8-TPPH	97	88-112		
1,4-Bromofluorobenzene	95	74-110							

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
S-10	08-08-1492-5-A	08/14/08 10:20	Aqueous	GC/MS W	08/20/08	08/21/08 08:40	080820L02

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.50	1		p/m-Xylene	ND	1.0	1	
1,2-Dibromoethane	ND	1.0	1		o-Xylene	ND	1.0	1	
1,2-Dichloroethane	ND	0.50	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	
Ethylbenzene	2.7	1.0	1		TPPH	58	50	1	
Toluene	ND	1.0	1						
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	105	74-140			1,2-Dichloroethane-d4	110	74-146		
Toluene-d8	102	88-112			Toluene-d8-TPPH	100	88-112		
1,4-Bromofluorobenzene	96	74-110							

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
S-12	08-08-1492-6-A	08/14/08 11:00	Aqueous	GC/MS W	08/20/08	08/21/08 12:11	080820L02

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	1.0	0.50	1		p/m-Xylene	ND	1.0	1	
1,2-Dibromoethane	ND	1.0	1		o-Xylene	ND	1.0	1	
1,2-Dichloroethane	ND	0.50	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	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	101	74-140			1,2-Dichloroethane-d4	103	74-146		
Toluene-d8	100	88-112			Toluene-d8-TPPH	100	88-112		
1,4-Bromofluorobenzene	93	74-110							

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

Analytical Report



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

Date Received: 08/16/08
 Work Order No: 08-08-1492
 Preparation: EPA 5030B
 Method: LUFT GC/MS / EPA 8260B
 Units: ug/L

Project: 461 8th Street, Oakland, CA

Page 3 of 4

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
S-13	08-08-1492-7-A	08/14/08 11:10	Aqueous	GC/MS W	08/20/08	08/21/08 12:41	080820L02

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	2400	10	20		p/m-Xylene	1900	20	20	
1,2-Dibromoethane	ND	20	20		o-Xylene	1200	20	20	
1,2-Dichloroethane	ND	10	20		Methyl-t-Butyl Ether (MTBE)	ND	20	20	
Ethylbenzene	580	20	20		TPPH	16000	1000	20	
Toluene	3100	20	20						
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	110	74-140			1,2-Dichloroethane-d4	113	74-146		
Toluene-d8	97	88-112			Toluene-d8-TPPH	96	88-112		
1,4-Bromofluorobenzene	99	74-110							

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
S-17	08-08-1492-8-A	08/14/08 12:00	Aqueous	GC/MS W	08/20/08	08/21/08 13:11	080820L02

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	1700	5.0	10		p/m-Xylene	1500	10	10	
1,2-Dibromoethane	ND	10	10		o-Xylene	750	10	10	
1,2-Dichloroethane	ND	5.0	10		Methyl-t-Butyl Ether (MTBE)	ND	10	10	
Ethylbenzene	310	10	10		TPPH	14000	500	10	
Toluene	1700	10	10						
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	100	74-140			1,2-Dichloroethane-d4	101	74-146		
Toluene-d8	100	88-112			Toluene-d8-TPPH	99	88-112		
1,4-Bromofluorobenzene	98	74-110							

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
S-18	08-08-1492-9-A	08/14/08 12:10	Aqueous	GC/MS W	08/20/08	08/21/08 13:42	080820L02

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	2500	25	50		p/m-Xylene	4200	50	50	
1,2-Dibromoethane	ND	50	50		o-Xylene	1600	50	50	
1,2-Dichloroethane	ND	25	50		Methyl-t-Butyl Ether (MTBE)	ND	50	50	
Ethylbenzene	860	50	50		TPPH	25000	2500	50	
Toluene	4500	50	50						
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	103	74-140			1,2-Dichloroethane-d4	100	74-146		
Toluene-d8	100	88-112			Toluene-d8-TPPH	99	88-112		
1,4-Bromofluorobenzene	98	74-110							

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

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 Preparation: EPA 5030B
 Method: LUFT GC/MS / EPA 8260B
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Project: 461 8th Street , Oakland, CA

Page 4 of 4

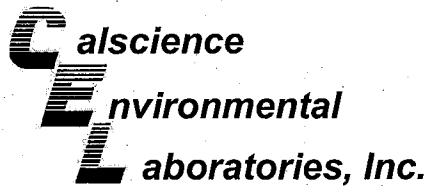
Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-12-767-132	N/A	Aqueous	GC/MS W	08/20/08	08/21/08 06:39	080820L02

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.50	1		p/m-Xylene	ND	1.0	1	
1,2-Dibromoethane	ND	1.0	1		o-Xylene	ND	1.0	1	
1,2-Dichloroethane	ND	0.50	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	
Ethylbenzene	ND	1.0	1		TPPH	ND	50	1	
Toluene	ND	1.0	1						
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>
Dibromofluoromethane	102	74-140			1,2-Dichloroethane-d4	106	74-146		
Toluene-d8	100	88-112			Toluene-d8-TPPH	98	88-112		
1,4-Bromofluorobenzene	92	74-110							

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-12-767-134	N/A	Aqueous	GC/MS W	08/21/08	08/21/08 18:57	080821L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.50	1		p/m-Xylene	ND	1.0	1	
1,2-Dibromoethane	ND	1.0	1		o-Xylene	ND	1.0	1	
1,2-Dichloroethane	ND	0.50	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	
Ethylbenzene	ND	1.0	1		TPPH	ND	50	1	
Toluene	ND	1.0	1						
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>
Dibromofluoromethane	112	74-140			1,2-Dichloroethane-d4	113	74-146		
Toluene-d8	96	88-112			Toluene-d8-TPPH	95	88-112		
1,4-Bromofluorobenzene	92	74-110							

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



Quality Control - Spike/Spike Duplicate



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

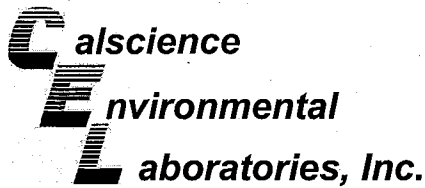
Date Received: 08/16/08
Work Order No: 08-08-1492
Preparation: EPA 5030B
Method: LUFT GC/MS / EPA
8260B

Project 461 8th Street , Oakland, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
S-10	Aqueous	GC/MS W	08/20/08	08/21/08	080820S02

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	97	93	88-118	3	0-7	
Carbon Tetrachloride	92	94	67-145	2	0-11	
Chlorobenzene	97	97	88-118	0	0-7	
1,2-Dibromoethane	94	93	70-130	1	0-30	
1,2-Dichlorobenzene	94	93	86-116	1	0-8	
1,1-Dichloroethene	101	98	70-130	3	0-25	
Ethylbenzene	101	97	70-130	3	0-30	
Toluene	99	97	87-123	2	0-8	
Trichloroethene	90	90	79-127	1	0-10	
Vinyl Chloride	92	90	69-129	2	0-13	
Methyl-t-Butyl Ether (MTBE)	89	89	71-131	0	0-13	
Tert-Butyl Alcohol (TBA)	86	90	36-168	5	0-45	
Diisopropyl Ether (DIPE)	98	97	81-123	1	0-9	
Ethyl-t-Butyl Ether (ETBE)	91	90	72-126	1	0-12	
Tert-Amyl-Methyl Ether (TAME)	93	95	72-126	2	0-12	
Ethanol	92	87	53-149	5	0-31	

RPD - Relative Percent Difference , CL - Control Limit



Quality Control - Spike/Spike Duplicate



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

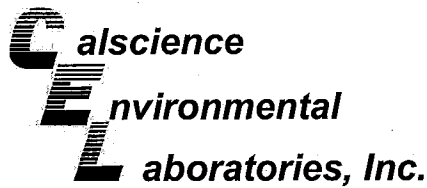
Date Received: 08/16/08
Work Order No: 08-08-1492
Preparation: EPA 5030B
Method: LUFT GC/MS / EPA 8260B

Project 461 8th Street , Oakland, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
08-08-1347-10	Aqueous	GC/MS W	08/21/08	08/21/08	080821S01

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	94	96	88-118	3	0-7	
Carbon Tetrachloride	91	99	67-145	9	0-11	
Chlorobenzene	97	95	88-118	2	0-7	
1,2-Dibromoethane	98	99	70-130	1	0-30	
1,2-Dichlorobenzene	95	93	86-116	1	0-8	
1,1-Dichloroethene	84	88	70-130	5	0-25	
Ethylbenzene	98	97	70-130	1	0-30	
Toluene	97	95	87-123	2	0-8	
Trichloroethene	88	92	79-127	4	0-10	
Vinyl Chloride	92	97	69-129	5	0-13	
Methyl-t-Butyl Ether (MTBE)	97	102	71-131	6	0-13	
Tert-Butyl Alcohol (TBA)	102	102	36-168	1	0-45	
Diisopropyl Ether (DIPE)	98	103	81-123	4	0-9	
Ethyl-t-Butyl Ether (ETBE)	94	101	72-126	6	0-12	
Tert-Amyl-Methyl Ether (TAME)	99	101	72-126	2	0-12	
Ethanol	100	93	53-149	7	0-31	

RPD - Relative Percent Difference , CL - Control Limit



Quality Control - LCS/LCS Duplicate



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

Date Received: N/A
Work Order No: 08-08-1492
Preparation: EPA 5030B
Method: LUFT GC/MS / EPA 8260B

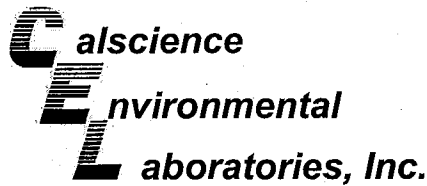
Project: 461 8th Street , Oakland, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-767-132	Aqueous	GC/MS W	08/20/08	08/21/08	080820L02

Parameter	LCS %REC	LCSD %REC	%REC CL	ME CL	RPD	RPD CL	Qualifiers
Benzene	96	96	84-120	78-126	0	0-8	
Carbon Tetrachloride	98	95	63-147	49-161	3	0-10	
Chlorobenzene	94	97	89-119	84-124	3	0-7	
1,2-Dibromoethane	96	95	80-120	73-127	1	0-20	
1,2-Dichlorobenzene	94	95	89-119	84-124	1	0-9	
1,1-Dichloroethene	93	88	77-125	69-133	5	0-16	
Ethylbenzene	99	101	80-120	73-127	1	0-20	
Toluene	95	99	83-125	76-132	4	0-9	
Trichloroethene	96	95	89-119	84-124	1	0-8	
Vinyl Chloride	101	98	63-135	51-147	3	0-13	
Methyl-t-Butyl Ether (MTBE)	98	92	82-118	76-124	6	0-13	
Tert-Butyl Alcohol (TBA)	88	90	46-154	28-172	3	0-32	
Diisopropyl Ether (DIPE)	100	99	81-123	74-130	1	0-11	
Ethyl-t-Butyl Ether (ETBE)	95	94	74-122	66-130	1	0-12	
Tert-Amyl-Methyl Ether (TAME)	95	97	76-124	68-132	3	0-10	
Ethanol	100	94	60-138	47-151	6	0-32	
TPPH	79	78	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



Quality Control - LCS/LCS Duplicate



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

Date Received: N/A
Work Order No: 08-08-1492
Preparation: EPA 5030B
Method: LUFT GC/MS / EPA 8260B

Project: 461 8th Street , Oakland, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-767-134	Aqueous	GC/MS W	08/21/08	08/21/08	080821L01

Parameter	LCS %REC	LCSD %REC	%REC CL	ME CL	RPD	RPD CL	Qualifiers
Benzene	96	94	84-120	78-126	2	0-8	
Carbon Tetrachloride	100	95	63-147	49-161	5	0-10	
Chlorobenzene	97	97	89-119	84-124	1	0-7	
1,2-Dibromoethane	100	94	80-120	73-127	6	0-20	
1,2-Dichlorobenzene	98	97	89-119	84-124	1	0-9	
1,1-Dichloroethene	91	84	77-125	69-133	7	0-16	
Ethylbenzene	99	100	80-120	73-127	1	0-20	
Toluene	93	98	83-125	76-132	4	0-9	
Trichloroethene	93	90	89-119	84-124	3	0-8	
Vinyl Chloride	98	90	63-135	51-147	8	0-13	
Methyl-t-Butyl Ether (MTBE)	105	96	82-118	76-124	9	0-13	
Tert-Butyl Alcohol (TBA)	109	98	46-154	28-172	10	0-32	
Diisopropyl Ether (DIPE)	104	98	81-123	74-130	6	0-11	
Ethyl-t-Butyl Ether (ETBE)	103	96	74-122	66-130	7	0-12	
Tert-Amyl-Methyl Ether (TAME)	101	98	76-124	68-132	3	0-10	
Ethanol	98	86	60-138	47-151	13	0-32	
TPPH	79	78	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



Work Order Number: 08-08-1492

<u>Qualifier</u>	<u>Definition</u>
*	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.

Shell Oil Products Chain Of Custody Record

LAB (LOCATION)

- CALSCIENCE ()
- SPL ()
- XENCO ()
- TEST AMERICA ()
- OTHER ()

Please Check Appropriate Box:

<input checked="" type="checkbox"/> ENV. SERVICES	<input type="checkbox"/> MOTIVA RETAIL	<input type="checkbox"/> SHELL RETAIL
<input type="checkbox"/> MOTIVA SD&CM	<input type="checkbox"/> CONSULTANT	<input type="checkbox"/> LUBES
<input type="checkbox"/> SHELL PIPELINE	<input type="checkbox"/> OTHER _____	

Print Bill To Contact Name: Denis Brown

INCIDENT # (ENV SERVICES): 9 7 0 9 3 3 9 9

PO #: _____ **SAP #:** _____

CHECK IF NO INCIDENT # APPLIES

DATE: 08-14-08

PAGE: 1 of 1

SAMPLING COMPANY: Blaine Tech Services

LOG CODE: BTSS

SITE ADDRESS: Street and City: 461 8th St, Oakland

State: CA

GLOBAL ID NO.: T0600101263

ADDRESS: 1680 Rogers Ave, San Jose, CA 95112

EDF DELIVERABLE TO (Name, Company, Office Location): Ana Friel, CRA, Eureka

PHONE NO.: 707-268-3812

E-MAIL: sonomaedf@craworld.com

CONSULTANT PROJECT NO.: 080814-WW1

BTS #: _____

PROJECT CONTACT (Hardcopy or PDF Report to): Michael Ninokata

TELEPHONE: (408)573-0555

FAX: (408)573-7774

E-MAIL: mninokata@blainetech.com

SAMPLER NAME(S) (P-#): WILLIAM WONG

LAB USE ONLY: 08-1492

TURNAROUND TIME (CALENDAR DAYS):

STANDARD (14 DAY) 5 DAYS 3 DAYS 2 DAYS 24 HOURS RESULTS NEEDED ON WEEKEND

REQUESTED ANALYSIS

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

TEMPERATURE ON RECEIPT: _____ °C

Container PID Readings or Laboratory Notes: _____

LAB USE ONLY	Field Sample Identification	SAMPLING		MATRIX	PRESERVATIVE					NO. OF CONT.	REQUESTED ANALYSIS												TEMPERATURE ON RECEIPT °C	Container PID Readings or Laboratory Notes					
		DATE	TIME		HCL	HNO3	H2SO4	NONE	OTHER		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)	EDC			
	S-5	08/14/08	0940	W	3					3	X	X	X						X										
	S-6		1220								X	X	X						X										
	S-8		1030								X	X	X						X										
	S-9		1050								X	X	X						X										
	S-10		1020								X	X	X						X										
	S-12		1100								X	X	X						X										
	S-13		1110								X	X	X						X										
	S-17		1200								X	X	X						X										
	S-18		1210								X	X	X						X										

Relinquished by: (Signature) <i>[Signature]</i>	Received by: (Signature) <i>[Signature]</i>	Date: 08/14/08	Time: 1525
Relinquished by: (Signature) <i>[Signature]</i>	Received by: (Signature) <i>[Signature]</i>	Date: 8/15/08	Time: 1400
Relinquished by: (Signature) <i>[Signature]</i>	Received by: (Signature) <i>[Signature]</i>	Date: 8/16/08	Time: 8:36

05/2/06 Revision

510 188 502

WORK ORDER #: **08** - -

Cooler 1 of 1

SAMPLE RECEIPT FORM

CLIENT: Blaine Tech

DATE: 8/16/08

TEMPERATURE – SAMPLES RECEIVED BY:

CALSCIENCE COURIER:

- Chilled, cooler with temperature blank provided.
- Chilled, cooler without temperature blank.
- Chilled and placed in cooler with wet ice.
- Ambient and placed in cooler with wet ice.
- Ambient temperature (For Air & Filter only).

LABORATORY (Other than Calscience Courier):

- °C Temperature blank.
- 2.5 °C IR thermometer.
- Ambient temperature (For Air & Filter only).

°C Temperature blank.

Initial: fb

CUSTODY SEAL INTACT:

Sample(s): _____ Cooler: No (Not Intact) : _____ Not Present: _____

Initial: fb

SAMPLE CONDITION:

	Yes	No	N/A
Chain-Of-Custody document(s) received with samples.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sampler's name indicated on COC.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample container label(s) consistent with custody papers.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample container(s) intact and good condition.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Correct containers and volume for analyses requested.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Proper preservation noted on sample label(s).....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
VOA vial(s) free of headspace.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Tedlar bag(s) free of condensation.....	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Initial: fb

COMMENTS:

WELL GAUGING DATA

Project # 080814-ww1 Date 08-14-08 Client SHELL

Site 461 8th St, 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 <u>FOC</u>	Notes
S-4	1008	4					21.77	28.65	↓	G-0
S-5	0852	4				16.65	33.44	NP 17		
S-6	1213	4			0	20.65	34.95	NP 20 ^{1ml} / _{Tr}		
S-8	1027	4				23.12	29.11	NP 10		
S-9	1040	4				22.70	29.80	NP 10		
S-10	1015	4				23.75	36.69	NP 10		
S-13	1103	4				23.31	32.42	NP 20		
S-17	1150	2				23.50	34.58	NP 15		
S-18	1201	2				23.08	34.73	NP 15		
S-12	1051	4				24.63	34.28	NP 20		
* S-6 NO SPH DETECTED										

WELL MONITORING DATA SHEET

Project #: 080814-WW1	Client: SHELL
Sampler: WW	Date: 08-14-08
Well I.D.: S-5	Well Diameter: 2 3 4 6 8
Total Well Depth: 33.44	Depth to Water Pre: 16.65 Post:
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVE</u> Grade	Flow Cell Type:

Purge Method: 3" ~~4"~~ Grundfos Pump
 Sampling Method: Dedicated Tubing
 Flow Rate: 10.9 gal CASE VOL.
 Peristaltic Pump _____ Bladder Pump _____
 New Tubing _____ Other _____
 Pump Depth: _____

Time	Temp. (°C or °F)	pH	Cond. (mS or µS)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Observations
-	SWAB	WELL 15 MINS (HARD BOTTOM)						Strong odor. <u>SW</u>
0912	69.1	6.70	972	>1000			10.9	
0914 0914	69.0	6.56	876	>1000			21.8	
0915	WELL	DEWATERED	@ ^{23 gal} 4.5 gal				^{23 gal} 4.5 gal	FAST RECHG. DTW: 18.32
0921	69.4	6.48	862	>1000			33.9	
0923	69.3	6.43	838	>1000			44.8	
0925	69.4	6.42	827	>1000			55.7	
0927	69.6	6.40	824	>1000			66.6	
0929	69.8	6.40	817	>1000			77.5	
0931	69.7	6.39	813	>1000			88.4	
0933	69.6	6.39	810	>1000			99.3	
0935	69.6	6.38	806	>1000			110	

Did well dewater? Yes No
 Amount actually evacuated: 110
 Sampling Time: 0940 @ ^{19.07} DTW Sampling Date: 08-14-08
 Sample I.D.: S-5 Laboratory: CAL SCIENCE
 Analyzed for: TPH-G BTEX MTBE TPH-D Other: EDB / EDC
 Equipment Blank I.D.: @ Time Duplicate I.D.:

SHELL WELL MONITORING DATA SHEET

BTS #: 080814-WW1	Site: 461 8th St, OAKLAND, CA
Sampler: WW	Date: 08-14-08
Well I.D.: S-6	Well Diameter: 2 3 4 6 8
Total Well Depth (TD): 34.95	Depth to Water (DTW): 20.65
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]:	

Purge Method: ~~Bailer~~ ~~Disposable Bailer~~ ~~Positive Air Displacement~~ ~~Electric Submersible~~ ~~Water~~ ~~Peristaltic~~ ~~Extraction Pump~~ ~~Other~~ ~~Sampling Method: Bailer~~ ~~Disposable Bailer~~ ~~Extraction Port~~ ~~Dedicated Tubing~~

NO PURGE @ 20

(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	radius ² * 0.163

Time	Temp (°F)	pH	Cond. (mS or µS)	Turbidity (NTUs)	Gals. Removed	Observations
1217	68.1	6.4	808	31	—	odor

Did well dewater? Yes No Gallons actually evacuated: _____

Sampling Date: **08-14-08** Sampling Time: **1220** Depth to Water: **20.65**

Sample I.D.: **S-6** Laboratory: STL Other **CAL SCIENCE**

Analyzed for: **TPH-G BTEX MTBE** TPH-D Other: **EDB, EDC**

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

SHELL WELL MONITORING DATA SHEET

BTS #: 080814-WW1	Site: 461 8th St, OAKLAND, CA
Sampler: WW	Date: 08-14-08
Well I.D.: S-8	Well Diameter: 2 3 (4) 6 8
Total Well Depth (TD): 29.11	Depth to Water (DTW): 23.12
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]: —	

Purge Method: Bailer Disposable Bailer Positive Air Displacement Electric Submersible Other _____

Water: Peristaltic Extraction Pump Other _____

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

NP @ 10'

NO PURGE

(Gals.) X Specified Volumes = Calculated Volume Gals.

1 Case Volume

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

Time	Temp (°F)	pH	Cond. (mS or μ S)	Turbidity (NTUs)	Gals. Removed	Observations
1028	69.4	6.6	498	23	—	

Did well dewater? Yes No Gallons actually evacuated: **—**

Sampling Date: **08-14-08** Sampling Time: **1030** Depth to Water: **23.12**

Sample I.D.: **S-8** Laboratory: STL Other **CALSCIENCE**

Analyzed for: **TPH-G BTEX MTBE** TPH-D Other: **EDB, EDC**

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

SHELL WELL MONITORING DATA SHEET

BTS #: 080814-WW1	Site: 461 8th St, OAKLAND, CA
Sampler: WW	Date: 08-14-08
Well I.D.: S-9	Well Diameter: 2 3 4 6 8 <u> </u>
Total Well Depth (TD): 29.80	Depth to Water (DTW): 22.70
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: <u> </u>	

Purge Method: Bailer Disposable Bailer Positive Air Displacement Electric Submersible

Water: Peristaltic Extraction Pump Other _____

Sampling Method: Bailer Disposable Bailer Extraction Port Dedicated Tubing

Other: _____

NO PURGE @ 10'

_____ (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	radius ² * 0.163

Time	Temp (°F)	pH	Cond. (mS or <u>µS</u>)	Turbidity (NTUs)	Gals. Removed	Observations
10:45	67.7	6.4	303	10	—	

Did well dewater? Yes No Gallons actually evacuated:

Sampling Date: **08-14-08** Sampling Time: **1050** Depth to Water: **22.70**

Sample I.D.: **S-9** Laboratory: STL Other: **CALSCIENCE**

Analyzed for: TPH-G BTEX MTBE TPH-D Other: **EDB, EDC**

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

SHELL WELL MONITORING DATA SHEET

BTS #: 080814-WW1	Site: 461 8th St, OAKLAND, CA
Sampler: WW	Date: 08-14-08
Well I.D.: S-10	Well Diameter: 2 3 4 6 8
Total Well Depth (TD): 26.69	Depth to Water (DTW): 23.75
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]: —	

Purge Method: ~~Bailer~~ ~~Disposable Bailer~~ ~~Positive Air Displacement~~ ~~Electric Submersible~~ ~~Water~~ ~~Peristaltic~~ ~~Extraction Pump~~ ~~Other~~ Sampling Method: ~~Bailer~~ ~~Disposable Bailer~~ ~~Extraction Port~~ ~~Dedicated Tubing~~ ~~Other~~

NO PURGE @ 10'

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

(Gals.) X	Gals.
1 Case Volume	Specified Volumes
Calculated Volume	

Time	Temp (°F)	pH	Cond. (mS or μ S)	Turbidity (NTUs)	Gals. Removed	Observations
1017	70.0	5.7	1079	12	—	

Did well dewater? Yes No Gallons actually evacuated: **—**

Sampling Date: **08-14-08** Sampling Time: **1020** Depth to Water: **23.75**

Sample I.D.: **S-10** Laboratory: STL Other **CAL SCIENCE**

Analyzed for: **TPH-G BTEX MTBE** TPH-D Other: **EDB, EDC**

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

SHELL WELL MONITORING DATA SHEET

BTS #: 080814-WW1	Site: 461 8th St, OAKLAND, CA
Sampler: WW	Date: 08-14-08
Well I.D.: S-12	Well Diameter: 2 3 4 6 8
Total Well Depth (TD): 34.28	Depth to Water (DTW): 24.63
Depth to Free Product: 1	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]: —	

Purge Method: ~~Bailer~~ ~~Disposable Bailer~~ ~~Positive Air Displacement~~ ~~Electric Submersible~~ ~~Water~~ ~~Peristaltic~~ ~~Extraction Pump~~ ~~Other~~ Sampling Method: ~~Bailer~~ ~~Disposable Bailer~~ ~~Extraction Port~~ ~~Dedicated Tubing~~ ~~Other~~

NO PURGE @ 20'

(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	radius ² * 0.163

Time	Temp (°F)	pH	Cond. (mS or µS)	Turbidity (NTUs)	Gals. Removed	Observations
1055	67.8	6.5	441	42	—	

Did well dewater? Yes Gallons actually evacuated: **—**

Sampling Date: **08-14-08** Sampling Time: **1100** Depth to Water: **24.63**

Sample I.D.: **S-12** Laboratory: STL Other: **CALSCIENCE**

Analyzed for: **TPH-G BTEX MTBE** TPH-D Other: **EDB, EDC**

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

SHELL WELL MONITORING DATA SHEET

BTS #: 080814-WW1	Site: 461 8th St, OAKLAND, CA
Sampler: WW	Date: 08-14-08
Well I.D.: S-13	Well Diameter: 2 3 4 6 8
Total Well Depth (TD): 32.42	Depth to Water (DTW): 23.31
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]: <input checked="" type="checkbox"/>	

Purge Method: ~~Bailer~~
 Disposable Bailer
 Positive Air Displacement
 Electric Submersible

Water
 Peristaltic
 Extraction Pump
 Other _____

Sampling Method: ~~Bailer~~
 Disposable Bailer
 Extraction Port
 Dedicated Tubing

Other: _____

NP @ 201

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

(Gals.) X _____	=	Gals.
1 Case Volume	Specified Volumes	Calculated Volume

Time	Temp (°F)	pH	Cond. (mS or µS)	Turbidity (NTUs)	Gals. Removed	Observations
1105	67.7	6.4	388	14	—	

Did well dewater? Yes No Gallons actually evacuated: _____

Sampling Date: **08-14-08** Sampling Time: **1110** Depth to Water: **23.31**

Sample I.D.: **S-13** Laboratory: STL Other **CAL SCIENCE**

Analyzed for: **TPH-G BTEX MTBE** TPH-D Other: **EDB, EDC**

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

SHELL WELL MONITORING DATA SHEET

BTS #: 080814-WW1	Site: 461 8th St, OAKLAND, CA
Sampler: WW	Date: 08-14-08
Well I.D.: S-17	Well Diameter: 2 3 4 6 8
Total Well Depth (TD): 34.58	Depth to Water (DTW): 23.50
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PWS Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: —	

Purge Method: ~~Bailer~~ ~~Disposable Bailer~~ ~~Positive Air Displacement~~ ~~Electric Submersible~~ ~~Water~~ ~~Peristaltic~~ ~~Extraction Pump~~ ~~Other~~ Sampling Method: ~~Bailer~~ ~~Disposable Bailer~~ ~~Extraction Port~~ ~~Dedicated Tubing~~

NP @ 15'

(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	radius ² * 0.163

Time	Temp (°F)	pH	Cond. (mS or µS)	Turbidity (NTUs)	Gals. Removed	Observations
1155	70.1	6.80	322	536	—	

Did well dewater? Yes No Gallons actually evacuated: **—**

Sampling Date: **08-14-08** Sampling Time: **1200** Depth to Water: **23.50**

Sample I.D.: **S-17** Laboratory: STL Other: **CALSCIENCE**

Analyzed for: **TPH-G BTEX MTBE** TPH-D Other: **EDB, EDC**

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

SHELL WELL MONITORING DATA SHEET

BTS #: 080814-WW1	Site: 461 8th St, OAKLAND, CA
Sampler: WW	Date: 08-14-08
Well I.D.: S-18	Well Diameter: 2 3 4 6 8
Total Well Depth (TD): 34.73	Depth to Water (DTW): 23.08
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]: ---	

Purge Method: Bailer Disposable Bailer Positive Air Displacement Electric Submersible **NP @ 15'** Other _____

Waters Peristaltic Extraction Pump

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

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

	(Gals.) X _____ Gals.	
1 Case Volume	Specified Volumes	Calculated Volume

Time	Temp (°F)	pH	Cond. (mS or μ S)	Turbidity (NTUs)	Gals. Removed	Observations
1205	69.3	6.5	389	861	—	

Did well dewater? Yes **No** Gallons actually evacuated: **—**

Sampling Date: **08-14-08** Sampling Time: **1210** Depth to Water: **23.08**

Sample I.D.: **S-18** Laboratory: STL Other **CALSCIENCE**

Analyzed for: **TPH-G BTEX MTBE** TPH-D Other: **EDB, EDC**

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