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Alameda County  
Environmental Health

**SUSTAINABLE STRATEGIES FOR GLOBAL LEADERS**

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October 30, 2007  
DELTA Project: SJ312351X  
SAP: 135356

Mr. Tom Berkins  
Groundwater Resources Engineer  
Alameda County Water District  
43885 South Grimmer Blvd.  
Fremont, California 94538

**Re: THIRD QUARTER 2007 GROUNDWATER MONITORING  
REPORT  
Shell-Branded Service Station  
31235 Mission Blvd.  
Hayward, California**



Dear Mr. Berkins:

On behalf of Shell Oil Products (SHELL), Delta Consultants (DELTA) has prepared this *Third Quarter 2007 Groundwater Monitoring Report* for the above referenced site. The sampling activities at the site were conducted by Blaine Tech Services, Inc. under contract to SHELL and included the collection of groundwater samples and static water level measurements. A DELTA staff member under the supervision of a California Registered Civil Engineer or a California Professional Geologist performed the data evaluation.

This quarterly report represents DELTA's professional opinions based upon the currently available information and is arrived at in accordance with currently acceptable professional standards. This report is based upon a specific scope of work requested by the client. The Contract between DELTA and its client outlines the scope of work, and only those tasks specifically authorized by that contract or outlined in this report were performed. This report is intended only for the use of DELTA's Client and anyone else specifically listed on this report. DELTA will not and cannot be liable for unauthorized reliance by any other third party. Other than as contained in this paragraph, DELTA makes no express or implied warranty as to the contents of this report.


Mr. Tom Berkins  
Alameda County Water District  
October 30, 2007  
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If you have any questions regarding this site, please contact Mr. Tom Hargett (DELTA) at (408) 826-1868 or Ms. Carol Campagna (SHELL) at (707) 864-1617.

Sincerely,  
**Delta Consultants**



Matt Lambert  
Staff Scientist



Tom Hargett, PG 5510  
Project Manager



Attachment: Third Quarter 2007 Groundwater Monitoring Report

cc: Carol Campagna, Shell Oil Products US, Carson  
Chuck Headlee, RWQCB San Francisco Region  
Danilo Galang, City of Hayward Fire Department, Hayward  
Patti Harrison, Fowler Property Acquisitions, San Francisco

**ATTACHED:**

- Table 1 – Well Concentrations
- Figure 1 – Site Location and Well Survey Map
- Figure 2 – Groundwater Elevation Contour Map
- Figure 3 – Hydrocarbon Distribution in Groundwater Map
- Appendix A – Field Data Sheets
- Appendix B – Field Procedures
- Appendix C – Laboratory Report and Chain-of-Custody Documentation
- Appendix D – Indemnification and Right of Entry Agreements between Shell Oil Products and US Toro Development Co.

**SHELL QUARTERLY STATUS REPORT**

Station Address:	31235 Mission Blvd., Hayward, California
DELTA Project No.:	SJ312351X
SHELL Project Manager/Phone No.:	Carol Campagna (707) 864-1617
DELTA Site Manager/Phone No.:	Tom Hargett (408) 826-1868
Primary Agency/Regulatory ID No.:	ACWD/ Tom Berkins
Other Agencies to Receive Copies:	RWQCB San Francisco Region City of Hayward Fire Department

**WORK PERFORMED THIS QUARTER (THIRD - 2007):**

1. Quarterly groundwater monitoring and sampling. Submitted quarterly report.
2. Submitted *Work Plan Addendum for Additional Soil and Groundwater Investigation* dated August 3, 2007.
3. Submitted *Revised Work Plan Addendum for Additional Soil and Groundwater Investigation* dated August 16, 2007.

**WORK PROPOSED FOR NEXT QUARTER (FOURTH - 2007):**

1. Quarterly groundwater monitoring and sampling. Submit quarterly report.
2. Install of onsite well MW-11 and offsite wells MW-9 and MW-10.

Current Phase of Project:	Groundwater monitoring and off-site investigation.
Frequency of Sampling:	Quarterly
Frequency of Monitoring:	Quarterly
Is Separate Phase Hydrocarbon Present On-site	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
(Well #'s):	
Cumulative SPH Recovered to Date:	NA
SPH Recovered This Quarter:	None
Sensitive Receptor(s) and Respective Direction(s):	Public drinking water well (Whipple Well) is located approximately 4,650 ft southwest of the site.
Site Lithology:	The site was found to be underlain primarily by clay interspersed with thin layers of silt, silty sand, clayey sand, and clayey gravel. The maximum depth explored was 33 feet below grade (bg).
Current Remediation Techniques:	None
Permits for Discharge:	None
Approximate Depth to Groundwater:	19.42 feet (off-site) to 21.94 feet (on-site) below top of well casing.
Groundwater Gradient:	West at approximately 0.003 ft/ft.
Current Agency Correspondence:	Facsimile correspondence dated March 27, 2007 stating the ownership change confirmation to <i>FPA Hayward Associates, L.P.</i> , refer to Appendix B.

October 30, 2007

## SHELL QUARTERLY STATUS REPORT (CONT.)

### Site History:

Case Opening	<u>11/13/02 (Leak Detected)</u>
Onsite Assessment	<u>October 2002 Installation of MW-1 through MW-4, December 2003 Soil Boring SB-1</u>
Offsite Assessment	<u>December 2003 Soil Boring SB-2 through 8, November 2004 Installation of MW-5 through MW-8</u>
Passive Remediation	<u>Natural Attenuation</u>
Active Remediation	<u>Temporary Groundwater Extraction March 30, 2004 to June 8, 2004 (61,285 gallons).</u>
Closure	<u>NA</u>
Summary of Unusual Activity:	<u>None</u>

## TABLE

**WELL CONCENTRATIONS**  
**Shell-branded Service Station**  
**31235 Mission Boulevard**  
**Hayward, CA**

Well ID	Date	TPPH (ug/L)	TEPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8260 (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	Ethanol (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)
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MW-1	12/02/2002	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	22.82	NA
MW-1	12/23/2002	<2,000	<100	<20	<20	<20	<20	9,600	<20	<20	<20	1,200	NA	NA	18.77	NA
MW-1	03/20/2003	<13,000	<50	<130	<130	<130	<250	14,000	<250	<130	<130	1,400	NA	42.19	20.58	21.61
MW-1	06/16/2003	<10,000	75 a	<100	<100	<100	<200	14,000	<400	<400	<400	2,100	NA	42.19	19.99	22.20
MW-1	09/18/2003	<10,000	<50	<100	<100	<100	<200	19,000	<400	<400	<400	3,000	NA	42.19	21.66	20.53
MW-1	12/02/2003	<13,000	69 a	<130	<130	<130	<250	22,000	<500	<500	<500	1,500	NA	42.19	22.08	20.11
MW-1	03/01/2004	<10,000	90 a	<100	<100	<100	<200	13,000	<400	<400	<400	1,200	NA	42.19	18.76	23.43
MW-1	06/08/2004	<5,000	84 a	<50	<50	<50	<100	7,200	<200	<200	<200	3,500	NA	42.19	21.71	20.48
MW-1	09/24/2004	<1,000	<50	<10	<10	<10	<20	420	<40	<40	<40	8,200	NA	42.19	22.85	19.34
MW-1	12/23/2004	<1,000	79 b	<10	<10	<10	<20	130	<40	<40	<40	11,000	NA	42.19	21.89	20.30
MW-1	03/02/2005	<1,000	84 b	<10	<10	<10	<20	79	<40	<40	<40	6,600	NA	42.19	16.84	25.35
MW-1	06/17/2005	<1,000	67 b	<10	<10	<10	<20	110	<40	<40	<40	7,400	NA	42.19	17.75	24.44
MW-1	09/01/2005	<1,000	<50	<10	<10	<10	<20	120	<40	<40	<40	1,800	NA	42.19	19.68	22.51
MW-1	12/08/2005	<250	<47	<2.5	<2.5	<2.5	<2.5	170	NA	NA	NA	5,000	NA	42.19	20.95	21.24
MW-1	03/16/2006	<500	i	<0.500	<0.500	<0.500	<0.500	770	NA	NA	NA	2,550	NA	42.19	15.15	27.04
MW-1	06/01/2006	<50.0	86.8 h	<0.500	<0.500	<0.500	<0.500	99.6	NA	NA	NA	2,400	NA	42.19	15.91	26.28
MW-1	09/26/2006	290	80.1 h	<5.0	<5.0	<5.0	<10	490	<10	<10	<10	4,800	<1,500	42.19	19.40	22.79
MW-1	12/08/2006	470	55 h	<0.50	<0.50	<0.50	<1.0	230	NA	NA	NA	3,500	NA	42.19	20.13	22.06
MW-1	03/12/2007	170	<50 h	<1.0	<1.0	<1.0	<2.0	66	NA	NA	NA	3,000	NA	42.19	18.28	23.91
MW-1	06/07/2007	440 o,p	53 h	<0.50	<1.0	<1.0	<1.0	190	NA	NA	NA	3,600	NA	42.19	20.44	21.75
<b>MW-1</b>	<b>09/10/2007</b>	<b>&lt;50 o</b>	<b>51 h</b>	<b>&lt;2.5</b>	<b>&lt;5.0</b>	<b>&lt;5.0</b>	<b>&lt;5.0</b>	<b>840</b>	<b>&lt;10</b>	<b>&lt;10</b>	<b>&lt;10</b>	<b>3,400</b>	<b>&lt;500</b>	<b>42.19</b>	<b>21.94</b>	<b>20.25</b>

MW-2	12/02/2002	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	22.71	NA
MW-2	12/23/2002	<1,000	<100	<10	<10	<10	<10	4,200	<10	<10	<10	130	NA	NA	18.51	NA
MW-2	03/20/2003	<13,000	<60	<130	<130	<130	<250	8,800	<250	<130	<130	<1300	NA	42.18	20.70	21.48
MW-2	06/16/2003	<10,000	70 a	<100	<100	<100	<200	6,200	<400	<400	<400	<1000	NA	42.18	20.00	22.18

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MW-2	09/18/2003	<2,500	630 a	<25	<25	<25	<50	8,700	<100	<100	<100	330	NA	42.18	21.68	20.50
MW-2	12/02/2003	<5,000	59 a	<50	<50	<50	<100	5,000	<200	<200	<200	940	NA	42.18	22.08	20.10
MW-2	03/01/2004	<2,000	67 a	<20	<20	<20	<40	1,900	<80	<80	<80	2,000	NA	42.18	18.65	23.53
MW-2	06/08/2004	<500	<50	<5.0	<5.0	<5.0	<10	79	<20	<20	<20	3,100	NA	42.18	21.63	20.55
MW-2	09/24/2004	<500	<50	<5.0	<5.0	<5.0	<10	10	<20	<20	<20	4,100	NA	42.18	22.84	19.34
MW-2	12/23/2004	<500	93 a	<5.0	<5.0	<5.0	<10	20	<20	<20	<20	2,300	NA	42.18	21.94	20.24
MW-2	03/02/2005	<100 d	50 a	<1.0	<1.0	<1.0	<2.0	3.8	<4.0	<4.0	<4.0	770	NA	42.18	16.54	25.64
MW-2	06/17/2005	<50	<50	<0.50	<0.50	<0.50	<1.0	6.2	<2.0	<2.0	<2.0	540	NA	42.18	17.64	24.54
MW-2	09/01/2005	<50	<50	<0.50	<0.50	<0.50	<1.0	10	<2.0	<2.0	<2.0	280	NA	42.18	19.63	22.55
MW-2	12/08/2005	<250	<48	<2.5	<2.5	<2.5	<2.5	12	NA	NA	NA	200	NA	42.18	20.89	21.29
MW-2	03/16/2006	<50.0	159 h	<0.500	<0.500	<0.500	<0.500	1.97	NA	NA	NA	52.8	NA	42.18	14.80	27.38
MW-2	06/01/2006	<50.0	58.0 h	<0.500	<0.500	<0.500	<0.500	9.02	NA	NA	NA	432	NA	42.18	15.83	26.35
MW-2	09/26/2006	<50	<47.6 h	<0.50	<0.50	<0.50	<1.0	3.0	<1.0	<1.0	<1.0	28	<150 k,l,m	42.18	19.34	22.84
MW-2	12/08/2006	<50	<56 h,n	<0.50	<0.50	<0.50	<1.0	2.1	NA	NA	NA	16	NA	42.18	20.02	22.16
MW-2	03/12/2007	<50	<50 h	<0.50	<0.50	<0.50	<1.0	3.4	NA	NA	NA	80	NA	42.18	17.63	24.55
MW-2	06/07/2007	50 o,p	59 h	<0.50	<1.0	<1.0	<1.0	1.1	NA	NA	NA	49	NA	42.18	20.48	21.70
<b>MW-2</b>	<b>09/10/2007</b>	<b>&lt;50 o</b>	<b>51 h</b>	<b>&lt;0.50</b>	<b>&lt;1.0</b>	<b>&lt;1.0</b>	<b>&lt;1.0</b>	<b>1.1</b>	<b>&lt;2.0</b>	<b>&lt;2.0</b>	<b>&lt;2.0</b>	<b>22</b>	<b>&lt;100</b>	<b>42.18</b>	<b>21.76</b>	<b>20.42</b>

MW-3	12/02/2002	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	22.40	NA
MW-3	12/23/2002	4,000	<1,600	5.2	<5.0	170	160	3,000	<5.0	<5.0	6.4	610	NA	NA	18.06	NA
MW-3	03/20/2003	<10,000	1,900	<100	<100	100	<200	4,300	<200	<100	<100	1,100	NA	42.24	20.03	22.21
MW-3	06/16/2003	2,900	1,400 a	<25	<25	69	50	4,800	<100	<100	<100	1,500	NA	42.24	20.23	22.01
MW-3	09/18/2003	3,700	820 a	<10	<10	40	29	3,700	<40	<40	<40	460	NA	42.24	20.85	21.39
MW-3	12/02/2003	2,900 a	690 a	<10	<10	40	<20	1,400	<40	<40	<40	280	NA	42.24	21.21	21.03
MW-3	03/01/2004	2,000	660 a	<10	<10	22	<20	1,400	<40	<40	<40	260	NA	42.24	19.00	23.24
MW-3	06/08/2004	2,200	650 a	<5.0	<5.0	26	24	1,400	<20	<20	<20	380	NA	42.24	21.63	20.61



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MW-3	09/24/2004	3,300 a	1,100 b	<5.0	<5.0	52	13	1,500	<20	<20	<20	540	NA	42.24	22.57	19.67
MW-3	12/23/2004	3,300	810 a	15	<5.0	25	<10	700	<20	<20	<20	910	NA	42.24	22.03	20.21
MW-3	03/02/2005	3,600	670 b	56	16	33	21	550	<20	<20	<20	790	NA	42.24	16.48	25.76
MW-3	06/17/2005	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	42.24	17.34	24.90
MW-3	06/29/2005	3,300	680 a	7.3	<5.0	26	11	290	<20	<20	<20	1,100	NA	42.24	17.89	24.35
MW-3	09/01/2005	1,900 e	470 b	<5.0	<5.0	10	<10	190	<20	<20	<20	1,300	NA	42.24	19.57	22.67
MW-3	12/08/2005	1,900	520 g	2.3	<0.50	17	3.5	84	NA	NA	NA	1,200	NA	42.24	20.67	21.57
MW-3	03/16/2006	4,490	1,530 h	0.910	<0.500	44.1	24.3	92.6	NA	NA	NA	484	NA	42.24	15.05	27.19
MW-3	06/01/2006	8,450	2,150 h	1.91	<0.500	178	116	53.9 j	NA	NA	NA	465 j	NA	42.24	15.36	26.88
MW-3	09/26/2006	2,600	593 h	<1.2	<1.2	43	10	26	<2.5	<2.5	<2.5	860	<380	42.24	18.43	23.81
MW-3	12/08/2006	2,800	720 h	0.86	<0.50	29	6.7	46	NA	NA	NA	1,200	NA	42.24	20.02	22.22
MW-3	03/12/2007	3,000	450 h	0.95	<0.50	28	3.7	44	NA	NA	NA	580	NA	42.24	18.55	23.69
MW-3	06/07/2007	2,600 o	1,400 h	0.44 q	<1.0	18	5.66 q	22	NA	NA	NA	750	NA	42.24	20.01	22.23
<b>MW-3</b>	<b>09/10/2007</b>	<b>2,300 o</b>	<b>420 h,p</b>	<b>0.32 q</b>	<b>&lt;1.0</b>	<b>12</b>	<b>1.4</b>	<b>13</b>	<b>&lt;2.0</b>	<b>&lt;2.0</b>	<b>&lt;2.0</b>	<b>950</b>	<b>&lt;100</b>	<b>42.24</b>	<b>21.82</b>	<b>20.42</b>

MW-4	12/02/2002	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	22.00	NA
MW-4	12/23/2002	<1,000	300	<10	<10	<10	<10	3,200	<10	<10	<10	830	NA	NA	17.22	NA
MW-4	03/20/2003	<10,000	410	<100	<100	100	<200	9,700	<200	<100	<100	2300	NA	42.41	20.47	21.94
MW-4	06/16/2003	<5,000	370 a	<50	<50	<50	<100	7,300	<100	<100	<100	2100	NA	42.41	20.18	22.23
MW-4	09/18/2003	<2,500	250 a	<25	<25	<25	<50	3,700	<100	<100	<100	910	NA	42.41	21.13	21.28
MW-4	12/02/2003	<2,000	540 a	<20	<20	<20	<40	3,000	<80	<80	<80	420	NA	42.41	21.22	21.19
MW-4	03/01/2004	<2,500	320 a	<25	<25	<25	<50	3,700	<100	<100	<100	540	NA	42.41	18.35	24.06
MW-4	06/08/2004	<1,000	250 a	<10	<10	<10	<20	2,700	<40	<40	<40	180	NA	42.41	21.34	21.07
MW-4	09/24/2004	<500	280 a	<5.0	<5.0	<5.0	<10	1,100	<20	<20	<20	930	NA	42.41	22.89	19.52
MW-4	12/23/2004	1,200	450 b	120	<5.0	<5.0	<10	710	<20	<20	<20	1,800	NA	42.41	21.44	20.97
MW-4	03/02/2005	990	190 a	110	39	<5.0	29	1,000	<20	<20	<20	1,000	NA	42.41	16.08	26.33

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MW-4	06/17/2005	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	42.41	17.76	24.65
MW-4	06/29/2005	670 e	390 a	<5.0	<5.0	<5.0	<10	290	<20	<20	<20	2,100	NA	42.41	17.80	24.61
MW-4	09/01/2005	<500	170 a	<5.0	<5.0	<5.0	<10	17	<20	<20	<20	1,900	NA	42.41	19.58	22.83
MW-4	12/08/2005	<500	200 g	<5.0	<5.0	<5.0	<5.0	410	NA	NA	NA	1,200	NA	42.41	20.79	21.62
MW-4	03/16/2006	744	523 h	<0.500	<0.500	<0.500	<0.500	190	NA	NA	NA	635	NA	42.41	15.85	26.56
MW-4	06/01/2006	<50.0	652 h	<0.500	<0.500	<0.500	<0.500	50.8	NA	NA	NA	588	NA	42.41	15.63	26.78
MW-4	09/26/2006	160	532 h	<0.50	<0.50	<0.50	<1.0	1.5	<1.0	<1.0	<1.0	480	<150 k,l	42.41	19.42	22.99
MW-4	12/08/2006	250	170 h	<0.50	<0.50	<0.50	<1.0	50	NA	NA	NA	600	NA	42.41	20.14	22.27
MW-4	03/12/2007	170	99 h	<0.50	<0.50	<0.50	<1.0	45	NA	NA	NA	520	NA	42.41	18.44	23.97
MW-4	06/07/2007	160 o	290 h	<0.50	<1.0	<1.0	<1.0	2.1	NA	NA	NA	370	NA	42.41	20.81	21.60
<b>MW-4</b>	<b>09/10/2007</b>	<b>85 o</b>	<b>180 h,p</b>	<b>&lt;0.50</b>	<b>&lt;1.0</b>	<b>&lt;1.0</b>	<b>&lt;1.0</b>	<b>3.0</b>	<b>&lt;2.0</b>	<b>&lt;2.0</b>	<b>&lt;2.0</b>	<b>270</b>	<b>&lt;100</b>	<b>42.41</b>	<b>21.38</b>	<b>21.03</b>

MW-5	11/23/2004	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	40.66	21.05	19.61
MW-5	12/23/2004	<50	<50	<0.50	<0.50	<0.50	<1.0	3.3	<2.0	<2.0	<2.0	<5.0	NA	40.66	20.65	20.01
MW-5	03/02/2005	<50	<50	<0.50	<0.50	<0.50	<1.0	1.3	<2.0	<2.0	<2.0	<5.0	NA	40.66	15.75	24.91
MW-5	06/17/2005	<50	<50	<0.50	<0.50	<0.50	<1.0	1.6	<2.0	<2.0	<2.0	<5.0	NA	40.66	16.35	24.31
MW-5	09/01/2005	<50	140 a,f	<0.50	<0.50	<0.50	<1.0	1.4	<2.0	<2.0	<2.0	<5.0	NA	40.66	18.41	22.25
MW-5	12/08/2005	<50	110 g	<0.50	<0.50	<0.50	<0.50	1.3	NA	NA	NA	<5.0	NA	40.66	19.66	21.00
MW-5	03/16/2006	<50.0	<100 h	<0.500	<0.500	<0.500	<0.500	1.37	NA	NA	NA	<10.0	NA	40.66	14.79	25.87
MW-5	06/01/2006	<50.0	<49.5 h	<0.500	<0.500	<0.500	<0.500	1.42	NA	NA	NA	51.8	NA	40.66	14.39	26.27
MW-5	09/26/2006	50	<47.6 h	<0.50	<0.50	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<150 k,l	40.66	18.12	22.54
MW-5	12/08/2006	<50	<56 h,n	<0.50	<0.50	<0.50	<1.0	0.88	NA	NA	NA	<5.0	NA	40.66	18.81	21.85
MW-5	03/12/2007	<50	<50 h	<0.50	<0.50	<0.50	<1.0	0.78	NA	NA	NA	5.3	NA	40.66	16.39	24.27
MW-5	06/07/2007	<50 o	<50 h	<0.50	<1.0	<1.0	<1.0	0.86 q	NA	NA	NA	<10	NA	40.66	19.20	21.46
<b>MW-5</b>	<b>09/10/2007</b>	<b>&lt;50 o</b>	<b>&lt;50 h</b>	<b>&lt;0.50</b>	<b>&lt;1.0</b>	<b>&lt;1.0</b>	<b>&lt;1.0</b>	<b>0.91 q</b>	<b>&lt;2.0</b>	<b>&lt;2.0</b>	<b>&lt;2.0</b>	<b>&lt;10</b>	<b>&lt;100</b>	<b>40.66</b>	<b>20.63</b>	<b>20.03</b>

**WELL CONCENTRATIONS**  
**Shell-branded Service Station**  
**31235 Mission Boulevard**  
**Hayward, CA**

Well ID	Date	TPPH (ug/L)	TEPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8260 (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	Ethanol (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)
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MW-6	11/23/2004	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	39.43	20.15	19.28
MW-6	12/23/2004	<250	110 a	<2.5	<2.5	<2.5	<5.0	390	<10	<10	<10	<25	NA	39.43	19.50	19.93
MW-6	03/02/2005	<250	<50	<2.5	<2.5	<2.5	<5.0	400	<10	<10	<10	<25	NA	39.23 c	14.72	24.51
MW-6	06/17/2005	<50	<50	<0.50	<0.50	<0.50	<1.0	250	<2.0	<2.0	<2.0	28	NA	39.23	15.27	23.96
MW-6	09/01/2005	<250	<50	<2.5	<2.5	<2.5	<5.0	500	<10	<10	<10	<25	NA	39.23	17.22	22.01
MW-6	12/08/2005	<500	<47	<5.0	<5.0	<5.0	<5.0	240	NA	NA	NA	<50	NA	39.23	18.43	20.80
MW-6	03/16/2006	862	<100 h	<0.500	<0.500	<0.500	<0.500	221	NA	NA	NA	<10.0	NA	39.23	12.66	26.57
MW-6	06/01/2006	<50.0	<49.5 h	<0.500	<0.500	<0.500	<0.500	102	NA	NA	NA	<10.0	NA	39.23	13.58	25.65
MW-6	09/26/2006	170	<48.1 h	<1.0	<1.0	<1.0	<2.0	150	<2.0	<2.0	<2.0	<20	<300 k,l	39.23	16.96	22.27
MW-6	12/08/2006	260	<56 h,n	<0.50	<0.50	<0.50	<1.0	170	NA	NA	NA	<5.0	NA	39.23	17.78	21.45
MW-6	03/12/2007	150	<50 h	<0.50	<0.50	<0.50	<1.0	130	NA	NA	NA	16	NA	39.23	15.25	23.98
MW-6	06/07/2007	100 o,p	<50 h	<0.50	<1.0	<1.0	<1.0	130	NA	NA	NA	<10	NA	39.23	17.91	21.32
<b>MW-6</b>	<b>09/10/2007</b>	<b>&lt;50 o</b>	<b>&lt;50 h</b>	<b>&lt;0.50</b>	<b>&lt;1.0</b>	<b>&lt;1.0</b>	<b>&lt;1.0</b>	<b>160.0</b>	<b>&lt;2.0</b>	<b>&lt;2.0</b>	<b>&lt;2.0</b>	<b>&lt;10</b>	<b>&lt;100</b>	<b>39.23</b>	<b>19.42</b>	<b>19.81</b>

MW-7	11/23/2004	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	39.50	19.98	19.52
MW-7	12/23/2004	<250	<50	<2.5	<2.5	<2.5	<5.0	690	<10	<10	<10	<25	NA	39.50	19.55	19.95
MW-7	03/02/2005	<250	<50	<2.5	<2.5	<2.5	<5.0	590	<10	<10	<10	<25	NA	39.50	15.35	24.15
MW-7	06/17/2005	<50	<50	<0.50	<0.50	<0.50	<1.0	330	<2.0	<2.0	<2.0	34	NA	39.50	15.16	24.34
MW-7	09/01/2005	<500	<50	<5.0	<5.0	<5.0	<10	430	<20	<20	<20	<50	NA	39.50	17.45	22.05
MW-7	12/08/2005	<500	<48	<5.0	<5.0	<5.0	<5.0	380	NA	NA	NA	<50	NA	39.50	18.66	20.84
MW-7	03/16/2006	881	<100 h	<0.500	<0.500	<0.500	<0.500	396	NA	NA	NA	<10.0	NA	39.50	12.90	26.60
MW-7	06/01/2006	<50.0	<49.5 h	<0.500	<0.500	<0.500	<0.500	192	NA	NA	NA	<10.0	NA	39.50	13.91	25.59
MW-7	09/26/2006	270	<48.5 h	<1.0	<1.0	<1.0	<2.0	290	<2.0	<2.0	<2.0	35	<300 k,l	39.50	17.17	22.33
MW-7	12/08/2006	480	65 h	<0.50	<0.50	<0.50	<1.0	360	NA	NA	NA	<5.0	NA	39.50	17.88	21.62
MW-7	03/12/2007	<500	<50 h	<5.0	<5.0	<5.0	<10	370	NA	NA	NA	<50	NA	39.50	15.36	24.14
MW-7	06/07/2007	260 o,p	<50 h	<0.50	<1.0	<1.0	<1.0	370	NA	NA	NA	<10	NA	39.50	18.20	21.30

**WELL CONCENTRATIONS**  
**Shell-branded Service Station**  
**31235 Mission Boulevard**  
**Hayward, CA**

Well ID	Date	TPPH (ug/L)	TEPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8260 (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	Ethanol (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)
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<b>MW-7</b>	<b>09/10/2007</b>	<b>&lt;50 o</b>	<b>&lt;50 h</b>	<b>&lt;2.5</b>	<b>&lt;5.0</b>	<b>&lt;5.0</b>	<b>&lt;5.0</b>	<b>480</b>	<b>&lt;10</b>	<b>&lt;10</b>	<b>&lt;10</b>	<b>&lt;50</b>	<b>&lt;500</b>	<b>39.50</b>	<b>19.65</b>	<b>19.85</b>
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MW-8	11/23/2004	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	39.92	20.42	19.50
MW-8	12/23/2004	<250	<50	<2.5	<2.5	<2.5	<5.0	530	<10	<10	<10	<25	NA	39.92	19.98	19.94
MW-8	03/02/2005	<50 d	<50	<0.50	<0.50	<0.50	<1.0	130	<2.0	<2.0	<2.0	<5.0	NA	39.92	14.43	25.49
MW-8	06/17/2005	<50	<50	<0.50	<0.50	<0.50	<1.0	50	<2.0	<2.0	<2.0	6.5	NA	39.92	15.92	24.00
MW-8	09/01/2005	<50	<50	<0.50	<0.50	<0.50	<1.0	34	<2.0	<2.0	<2.0	<5.0	NA	39.92	17.85	22.07
MW-8	12/08/2005	<50	97 g	<0.50	<0.50	<0.50	<0.50	63	NA	NA	NA	5.6	NA	39.92	19.08	20.84
MW-8	03/16/2006	<50.0	<100 h	<0.500	<0.500	<0.500	<0.500	15.0	NA	NA	NA	<10.0	NA	39.92	13.13	26.79
MW-8	06/01/2006	<50.0	<46.9 h	<0.500	<0.500	<0.500	<0.500	15.2	NA	NA	NA	<10.0	NA	39.92	14.20	25.72
MW-8	09/26/2006	<50	<48.5 h	<0.50	<0.50	<0.50	<1.0	20	<1.0	<1.0	<1.0	<10	<150 k,l	39.92	17.57	22.35
MW-8	12/08/2006	99	51 h	<0.50	<0.50	<0.50	<1.0	56	NA	NA	NA	<5.0	NA	39.92	18.31	21.61
MW-8	03/12/2007	<50	<50 h	<0.50	<0.50	<0.50	<1.0	40	NA	NA	NA	<5.0	NA	39.92	15.83	24.09
MW-8	06/07/2007	<50 o	<50 h	<0.50	<1.0	<1.0	<1.0	34	NA	NA	NA	<10	NA	39.92	18.56	21.36
<b>MW-8</b>	<b>09/10/2007</b>	<b>&lt;50 o</b>	<b>&lt;50 h</b>	<b>&lt;0.50</b>	<b>&lt;1.0</b>	<b>&lt;1.0</b>	<b>&lt;1.0</b>	<b>77</b>	<b>&lt;2.0</b>	<b>&lt;2.0</b>	<b>&lt;2.0</b>	<b>&lt;10</b>	<b>&lt;100</b>	<b>39.92</b>	<b>20.00</b>	<b>19.92</b>

**WELL CONCENTRATIONS**  
**Shell-branded Service Station**  
**31235 Mission Boulevard**  
**Hayward, CA**

<b>Well ID</b>	<b>Date</b>	<b>TPPH</b> (ug/L)	<b>TEPH</b> (ug/L)	<b>B</b> (ug/L)	<b>T</b> (ug/L)	<b>E</b> (ug/L)	<b>X</b> (ug/L)	<b>MTBE</b> <b>8260</b> (ug/L)	<b>DIPE</b> (ug/L)	<b>ETBE</b> (ug/L)	<b>TAME</b> (ug/L)	<b>TBA</b> (ug/L)	<b>Ethanol</b> (ug/L)	<b>TOC</b> (MSL)	<b>Depth to</b> <b>Water</b> (ft.)	<b>GW</b> <b>Elevation</b> (MSL)
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Abbreviations:

TPPH = Total petroleum hydrocarbons as gasoline by EPA Method 8260B.

TEPH = Total petroleum hydrocarbons as diesel by modified EPA Method 8015.

BTEX = Benzene, toluene, ethylbenzene, xylenes by EPA Method 8260B.

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 Butanol or Tertiary butyl alcohol, analyzed by EPA Method 8260B

TOC = Top of Casing Elevation

GW = Groundwater

ug/L = Parts per billion

MSL = Mean sea level

ft. = Feet

<n = Below detection limit

NA = Not applicable

**WELL CONCENTRATIONS**  
**Shell-branded Service Station**  
**31235 Mission Boulevard**  
**Hayward, CA**

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

a = Hydrocarbon reported does not match the laboratory standard.

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

c = TOC altered -0.20 ft. due to wellhead maintenace on February 16, 2005.

d = The concentration reported reflect(s) individual or discrete unidentified peaks not matching a typical fuel pattern.

e = Quantity of unknown hydrocarbon(s) in sample based on gasoline.

f = Possible septum contamination in the sample. Sample was reanalyzed past hold time with surrogate recoveries within control limits and results of <50ppb.

g = Hydrocarbon pattern is present in the requested fuel quantitation range but does not resemble the pattern of the requested fuel.

h = Analyzed with silica gel clean-up.

i = Ambers were lost in transit to lab - no Diesel analysis was performed.

j = Secondary ion abundances were outside method requirements. Identification based on analytical judgement.

k = Calibration Verification recovery was above the method control limit for this analyte. Analyte not detected, data not impacted.

l = Laboratory Control Sample recovery was above the method control limits. Analyte not detected, data not impacted.

m = The MS and/or MSD were above the acceptance limits. See Blank Spike (LCS).

n = Reporting limit raised due to insufficient sample volume.

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

p = 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.

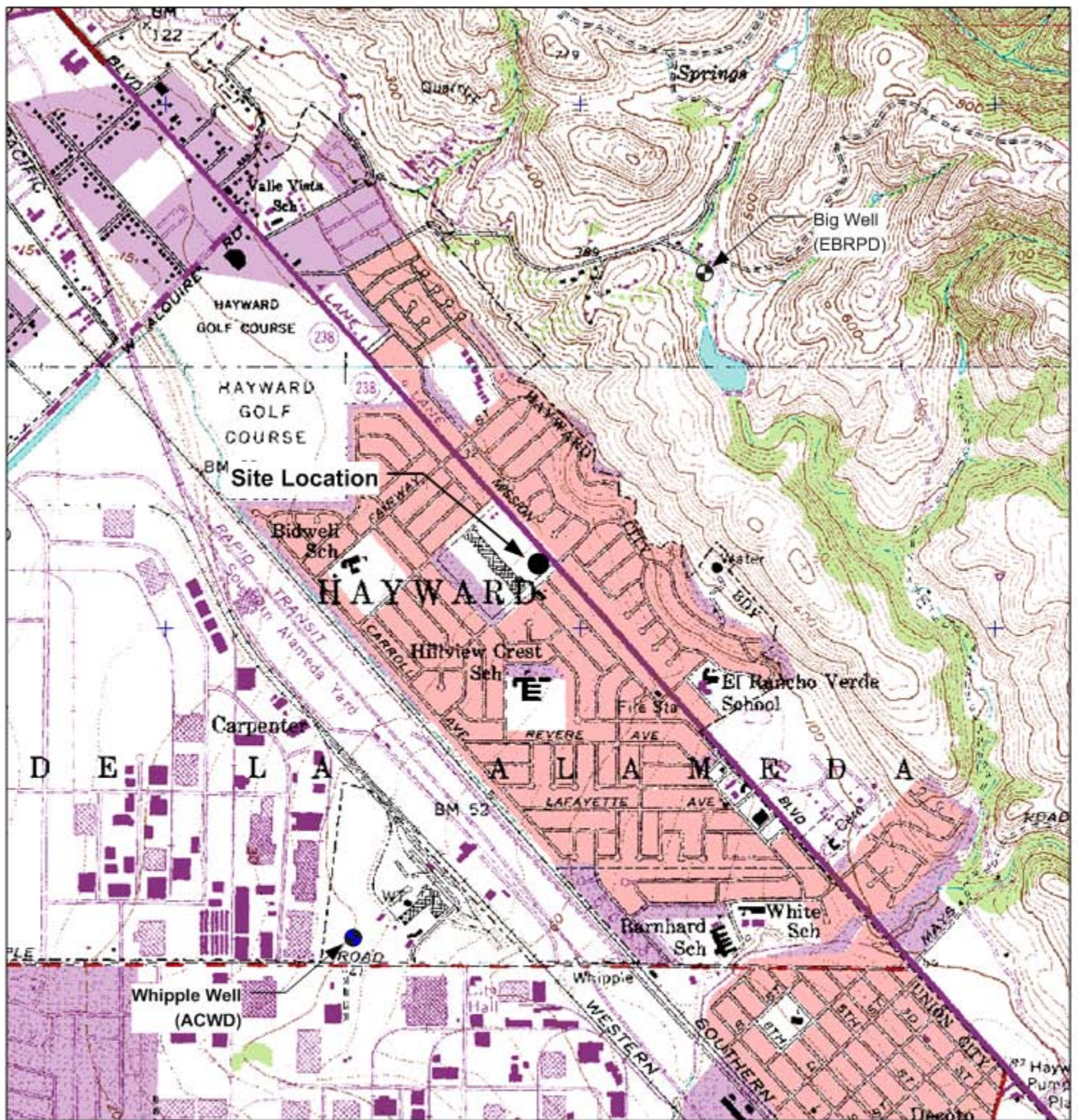
q = Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.

Ethanol analyzed by EPA 8260B.

Site surveyed December 11, 2002 by Mid Coast Engineers.

Wells MW-5, MW-6, MW-7, and MW-8 surveyed on November 29, 2004. Survey data provided by Delta Environmental.

## FIGURES



GENERAL NOTES:  
 Base Map from: DeLorme Yarmouth, ME 04096  
 Source Data: USGS



QUADRANGLE LOCATION



Scale, Feet

FIGURE 1  
 SITE LOCATION AND WELL SURVEY MAP

SHELL-BRANDED SERVICE STATION  
 31235 Mission Blvd.  
 Hayward, California

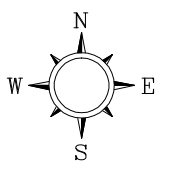
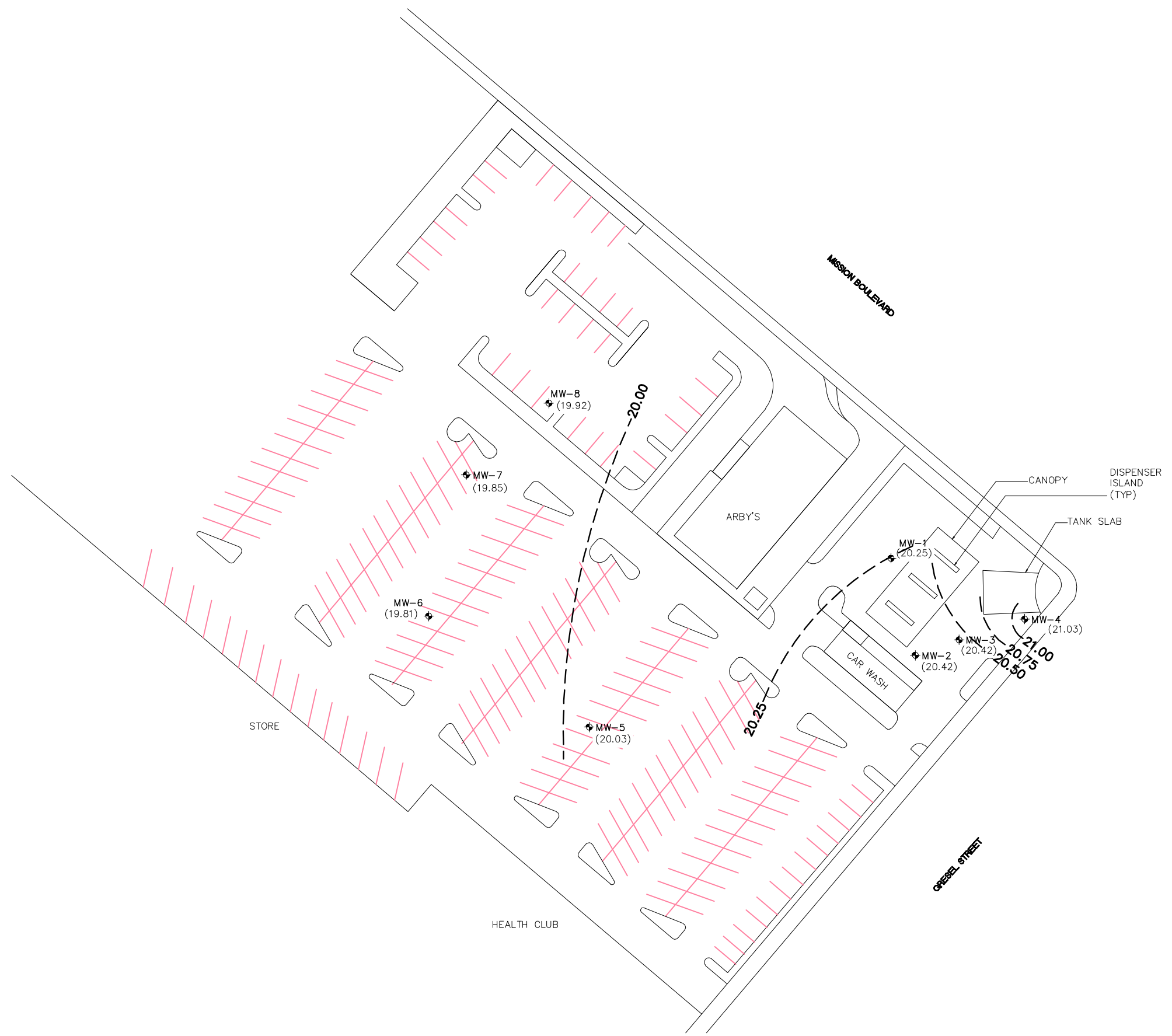
PROJECT NO. SJ312351X	DRAWN BY VF 10/24/03
FILE NO.	PREPARED BY VF
REVISION NO.	REVIEWED BY





PROJECT NUMBER: SJ312351X  
 APPROVED BY: [ ]  
 CHECKED BY: [ ]  
 DRAWN BY: J.F.F. 7/25/2007

SCALE IN FEET  
 0 40 80



**LEGEND**

- MW-1 ◆ GROUNDWATER MONITORING WELL LOCATION AND DESIGNATION
- (20.25) GROUNDWATER ELEVATION IN FEET ABOVE MEAN SEA LEVEL (Ft/MSL)
- 20.00 — GROUNDWATER CONTOUR IN FEET ABOVE MEAN SEA LEVEL (Ft/MSL) CONTOUR INTERVAL=0.25 FEET
- ← APPROXIMATE GROUNDWATER GRADIENT DIRECTION (ft/ft)



SHELL OIL PRODUCTS US  
 SHELL -BRANDED SERVICE STATION  
 HAYWARD, CALIFORNIA

**FIGURE 2**  
**GROUNDWATER ELEVATION CONTOUR**  
**MAP**

**9/10/07**  
 31235 MISSION BOULEVARD  
 HAYWARD, CALIFORNIA

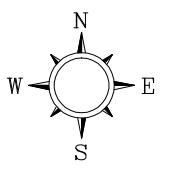
PROJECT NUMBER  
SJ312351X

APPROVED BY

CHECKED BY

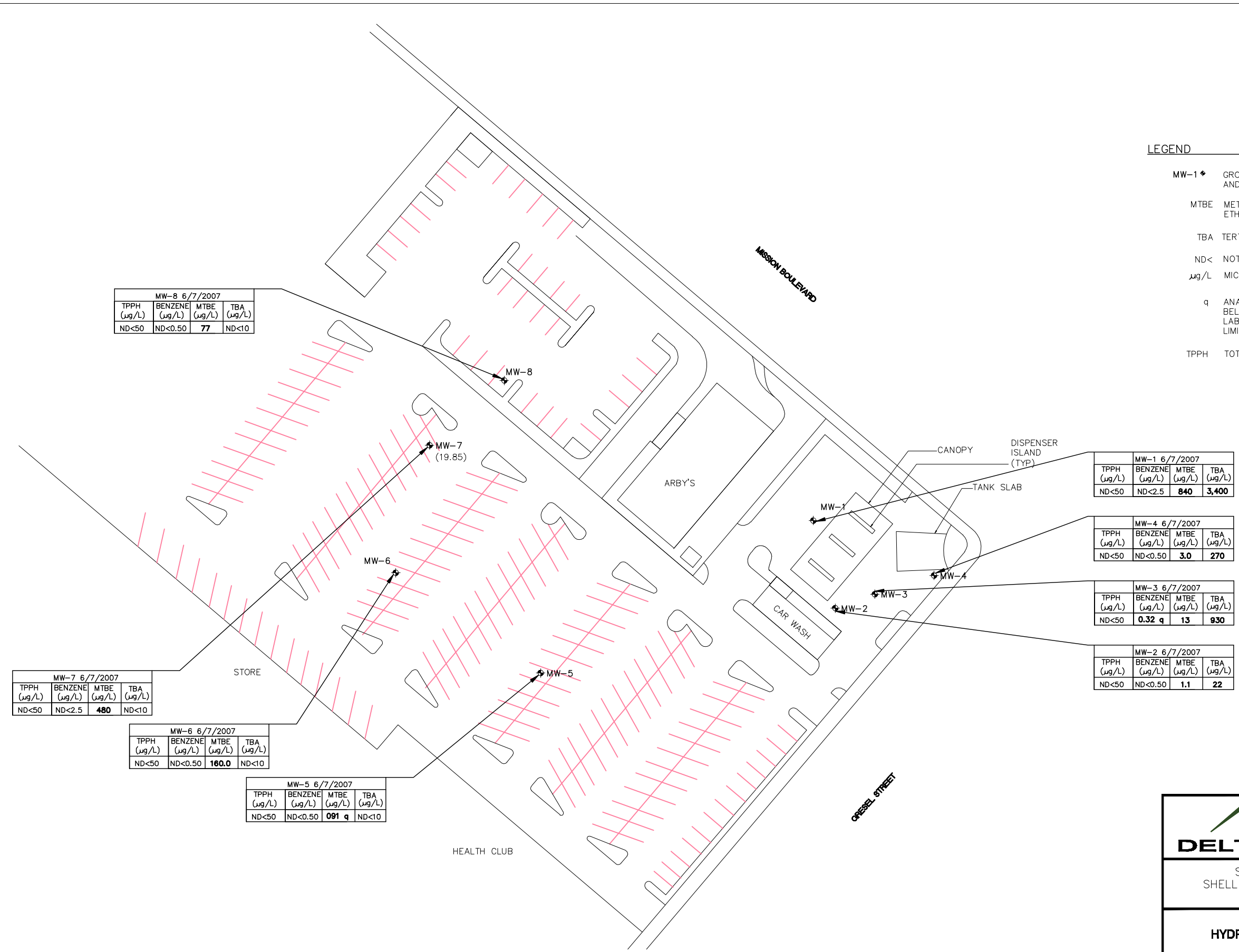
DRAWN BY  
J.F.F.

SCALE IN FEET  
0 40 80



LEGEND

- MW-1 ◆ GROUNDWATER MONITORING WELL LOCATION AND DESIGNATION
- MTBE METHYL TERT-BUTYL ETHER
- TBA TERT-BUTYL ALCOHOL
- ND< NOT DETECTED ABOVE LIMIT NOTED
- µg/L MICROGRAMS PER LITER
- q ANALYTE WAS DETECTED AT A CONCENTRATION BELOW THE REPORTING LIMIT AND ABOVE THE LABORATORY METHOD DETECTION LIMIT. REPORTED VALUE IS ESTIMATED
- TPPH TOTAL PETROLEUM HYDROCARBONS IN GASOLINE



MW-8 6/7/2007			
TPPH (µg/L)	BENZENE (µg/L)	MTBE (µg/L)	TBA (µg/L)
ND<50	ND<0.50	77	ND<10

MW-7 6/7/2007			
TPPH (µg/L)	BENZENE (µg/L)	MTBE (µg/L)	TBA (µg/L)
ND<50	ND<2.5	480	ND<10

MW-6 6/7/2007			
TPPH (µg/L)	BENZENE (µg/L)	MTBE (µg/L)	TBA (µg/L)
ND<50	ND<0.50	160.0	ND<10

MW-5 6/7/2007			
TPPH (µg/L)	BENZENE (µg/L)	MTBE (µg/L)	TBA (µg/L)
ND<50	ND<0.50	091 q	ND<10

MW-7 (19.85)			
TPPH (µg/L)	BENZENE (µg/L)	MTBE (µg/L)	TBA (µg/L)
ND<50	ND<0.50	77	ND<10

MW-1 6/7/2007			
TPPH (µg/L)	BENZENE (µg/L)	MTBE (µg/L)	TBA (µg/L)
ND<50	ND<2.5	840	3,400

MW-4 6/7/2007			
TPPH (µg/L)	BENZENE (µg/L)	MTBE (µg/L)	TBA (µg/L)
ND<50	ND<0.50	3.0	270

MW-3 6/7/2007			
TPPH (µg/L)	BENZENE (µg/L)	MTBE (µg/L)	TBA (µg/L)
ND<50	0.32 q	13	930

MW-2 6/7/2007			
TPPH (µg/L)	BENZENE (µg/L)	MTBE (µg/L)	TBA (µg/L)
ND<50	ND<0.50	1.1	22



SHELL OIL PRODUCTS US  
SHELL -BRANDED SERVICE STATION  
HAYWARD, CALIFORNIA

FIGURE 3  
HYDROCARBON DISTRIBUTION IN  
GROUNDWATER MAP

9/10/07

31235 MISSION BOULEVARD  
HAYWARD, CALIFORNIA

**APPENDIX A**

**FIELD DATA SHEETS**

# SHELL WELLHEAD INSPECTION FORM

## (FOR SAMPLE TECHNICIAN)

Site Address 31235 Mission Blvd. Hayward Date 9/10/07  
 Job Number 070910-PC1 Technician P. Cornish Page 1 of 1

Well ID	Well Inspected - No Corrective Action Required	Well Box Meets Compliance Requirements *See Below	Water Bailed From Wellbox	Cap Replaced	Lock Replaced	Well Not Inspected (explain in notes)	New Deficiency Identified	Previously Identified Deficiency Persists	Notes
MW-1	X	X							
MW-2	<del>X</del>	X							lid bolt hole slightly broken
MW-3	X	X							
MW-4	X	X							
MW-5	X	X							
MW-6	X	X							
MW-7	X	X							
MW-8	X	X							

\*Well box must meet all three criteria to be compliant: 1) WELL IS SECURABLE BY DESIGN (12" or less) 2) WELL IS MARKED WITH THE WORDS "MONITORING WELL" (12" or less) 3) WELL TAG IS PRESENT, SECURE, AND CORRECT

Notes: \_\_\_\_\_

# WELL GAUGING DATA

Project # 070910 - PCI      Date 09/10/07      Client Shell

Site 31235 Mission Blvd. Hayward.

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 <del>TOC</del>	Notes
MW-1	0754	2					21.94	32.71	TOC	
MW-2	0750	2					21.76	32.44	↓	
MW-3	0759	2				21.82	32.51			
MW-4	0745	2				21.38	32.67			
MW-5	0812	2				20.63	29.65			
MW-6	0816	2				19.42	29.25			
MW-7	0820	2				19.65	29.75			
MW-8	0824	2				20.00	29.50			

## SHELL WELL MONITORING DATA SHEET

BTS #: 070910-PC1	Site: 97456532
Sampler: PC, MP	Date: 9/10/07
Well I.D.: mw-1	Well Diameter: 2 3 4 6 8
Total Well Depth (TD): <del>21.94</del> 32.71	Depth to Water (DTW): 21.94
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <del>PWC</del> Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 24.09	

Purge Method:  Bailer      Waterra      Sampling Method:  Bailer  
 Disposable Bailer       Peristaltic       Disposable Bailer  
 Positive Air Displacement       Extraction Pump       Extraction Port  
 Electric Submersible      Other \_\_\_\_\_       Dedicated Tubing

$1.7 \text{ (Gals.)} \times 4 = 6.8 \text{ Gals.}$ 1 Case Volume      Specified Volumes      Calculated Volume	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Well Diameter</th> <th>Multiplier</th> <th>Well Diameter</th> <th>Multiplier</th> </tr> </thead> <tbody> <tr> <td>1"</td> <td>0.04</td> <td>4"</td> <td>0.65</td> </tr> <tr> <td>2"</td> <td>0.16</td> <td>6"</td> <td>1.47</td> </tr> <tr> <td>3"</td> <td>0.37</td> <td>Other</td> <td>radius<sup>2</sup> * 0.163</td> </tr> </tbody> </table>	Well Diameter	Multiplier	Well Diameter	Multiplier	1"	0.04	4"	0.65	2"	0.16	6"	1.47	3"	0.37	Other	radius <sup>2</sup> * 0.163
Well Diameter	Multiplier	Well Diameter	Multiplier														
1"	0.04	4"	0.65														
2"	0.16	6"	1.47														
3"	0.37	Other	radius <sup>2</sup> * 0.163														

Time	Temp (°F)	pH	Cond. (mS or $\mu$ S)	Turbidity (NTUs)	Gals. Removed	Observations
1247	70.5	6.25	497.1	871	1.7	
1248	69.7	6.20	532.2	7100	3.4	Brown cloudy
1251	69.6	6.22	546.5	7100	5.1	Brown cloudy
1253	69.7	6.44	547.2	7100	6.8	Brown cloudy

Did well dewater?    Yes     No    Gallons actually evacuated: 6.8

Sampling Date: 9/10/07    Sampling Time: 1255    Depth to Water: 24.08

Sample I.D.: MW-1    Laboratory: STL    Other: Cal Science

Analyzed for:  TPH-G     BTEX     MTBE     TPH-D    Other:  $\text{O}_2$ , Ethanol

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

**Blaine Tech Services, Inc. 1680 Rogers Ave., San Jose, CA 95112 (800) 545-7558**

## SHELL WELL MONITORING DATA SHEET

BTS #: <u>070910-PC1</u>	Site: <u>97450532</u>
Sampler: <u>PC</u>	Date: <u>9 / 10 / 07</u>
Well I.D.: <u>mw-2</u>	Well Diameter: <u>2</u> 3 4 6 8
Total Well Depth (TD): <u>32.44</u>	Depth to Water (DTW): <u>21.76</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVS</u> Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: <u>23.90</u>	

Purge Method:  Bailer       Waterra      Sampling Method:  Bailer  
 Disposable Bailer       Peristaltic       Disposable Bailer  
 Positive Air Displacement       Extraction Pump       Extraction Port  
 Electric Submersible       Other \_\_\_\_\_       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 <sup>2</sup> * 0.163

<u>1.7</u>	(Gals.) X	<u>4</u>	=	<u>6.8</u>	Gals.
1 Case Volume		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Cond. (mS or <del>µS</del> )	Turbidity (NTUs)	Gals. Removed	Observations
958	66.8	6.71	452.9	>1000	1.7	brown, silty
1002	67.0	6.13	448.2	>1000	3.4	↓ ↓
1006	66.9	6.16	448.1	>1000	5.1	
1010	67.0	6.21	449.4	>1000	6.8	

Did well dewater? Yes  No  Gallons actually evacuated: 6.8

Sampling Date: 9/10/07 Sampling Time: 1015 Depth to Water: 22.32

Sample I.D.: MW-2 Laboratory: STL Other: Calcience

Analyzed for: TPH-G BTEX MTBE TPH-D Other: OX<sub>2</sub>S Ethanol

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 #: <u>072910-PC1</u>	Site: <u>97456532</u>
Sampler: <u>PC, MP</u>	Date: <u>9/10/07</u>
Well I.D.: <u>mw-3</u>	Well Diameter: <u>2</u> 3 4 6 8
Total Well Depth (TD): <u>32.51</u>	Depth to Water (DTW): <u>21.82</u>
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>23.96</u>	

Purge Method:  Bailer      Waterra      Sampling Method:  Bailer  
 Disposable Bailer       Peristaltic       Disposable Bailer  
 Positive Air Displacement       Extraction Pump       Extraction Port  
 Electric Submersible      Other \_\_\_\_\_       Dedicated Tubing

$\frac{1.7 \text{ (Gals.)} \times 4}{\text{Specified Volumes}} = \frac{6.8 \text{ Gals.}}{\text{Calculated Volume}}$	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Well Diameter</th> <th>Multiplier</th> <th>Well Diameter</th> <th>Multiplier</th> </tr> </thead> <tbody> <tr> <td>1"</td> <td>0.04</td> <td>4"</td> <td>0.65</td> </tr> <tr> <td>2"</td> <td>0.16</td> <td>6"</td> <td>1.47</td> </tr> <tr> <td>3"</td> <td>0.37</td> <td>Other</td> <td>radius<sup>2</sup> * 0.163</td> </tr> </tbody> </table>	Well Diameter	Multiplier	Well Diameter	Multiplier	1"	0.04	4"	0.65	2"	0.16	6"	1.47	3"	0.37	Other	radius <sup>2</sup> * 0.163
Well Diameter	Multiplier	Well Diameter	Multiplier														
1"	0.04	4"	0.65														
2"	0.16	6"	1.47														
3"	0.37	Other	radius <sup>2</sup> * 0.163														

Time	Temp (°F)	pH	Cond. (mS or <u>µS</u> )	Turbidity (NTUs)	Gals. Removed	Observations
1306	70.8	6.25	534.4	>1000	1.7	1 g. reg. silt ↓ ↓
1310	70.6	6.17	533.8	>1000	3.4	
1315	70.0	6.23	532.4	>1000	5.1	
1319	69.9	6.31	544.7	>1000	6.8	

Did well dewater? Yes  No      Gallons actually evacuated: 6.8

Sampling Date: 9/10/07      Sampling Time: 1325      Depth to Water: 23.74

Sample I.D.: MW-3      Laboratory: STL      Other: Calscience

Analyzed for: TPH-G BTEX MTBE TPH-D      Other: oxy's, Ethanol

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 #: <u>070910-PC1</u>	Site: <u>97456532</u>
Sampler: <u>MW-4</u>	Date: <u>9/11/07</u>
Well I.D.: <u>MW-4</u>	Well Diameter: (2) <u>3</u> <u>4</u> <u>6</u> <u>8</u> _____
Total Well Depth (TD): <u>32.67</u>	Depth to Water (DTW): <u>21.38</u>
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]: <u>23.64</u>	

Purge Method:  Bailer          Waterra          Sampling Method:           Bailer  
                                 Disposable Bailer          Peristaltic    Disposable Bailer  
                                 Positive Air Displacement          Extraction Pump    Extraction Port  
                                 Electric Submersible          Other \_\_\_\_\_    Dedicated Tubing

Other: \_\_\_\_\_

$\frac{1.8}{1} \text{ (Gals.)} \times \frac{4}{\text{Specified Volumes}} = \frac{7.2}{\text{Calculated Volume}} \text{ Gals.}$	<table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <thead> <tr> <th>Well Diameter</th> <th>Multiplier</th> <th>Well Diameter</th> <th>Multiplier</th> </tr> </thead> <tbody> <tr> <td>1"</td> <td>0.04</td> <td>4"</td> <td>0.65</td> </tr> <tr> <td>2"</td> <td>0.16</td> <td>6"</td> <td>1.47</td> </tr> <tr> <td>3"</td> <td>0.37</td> <td>Other</td> <td>radius<sup>2</sup> * 0.163</td> </tr> </tbody> </table>	Well Diameter	Multiplier	Well Diameter	Multiplier	1"	0.04	4"	0.65	2"	0.16	6"	1.47	3"	0.37	Other	radius <sup>2</sup> * 0.163
Well Diameter	Multiplier	Well Diameter	Multiplier														
1"	0.04	4"	0.65														
2"	0.16	6"	1.47														
3"	0.37	Other	radius <sup>2</sup> * 0.163														

Time	Temp (°F)	pH	Cond. (mS or μS)	Turbidity (NTUs)	Gals. Removed	Observations
1118	70.0	6.54	343.7	601	1.8	cloudy
1123	69.1	6.13	356.0	>1000	3.6	brown, silty
1128	68.7	6.23	365.4	>1000	5.4	
1132	68.2	6.22	364.3	>1000	7.2	
<i>DTW: 27.32' @ 1140</i>						

Did well dewater?    Yes     No    Gallons actually evacuated: 7.2

Sampling Date: 9/11/07    Sampling Time: 1230    Depth to Water: 22.30

Sample I.D.: MW-4    Laboratory:    STL    Other: (Calcience)

Analyzed for: ~~TPH-G~~ ~~BTEX~~ MTBE (TPH-D)    Other: Oxys, Ethanol

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 #: 070910-PC1	Site: 97456532
Sampler: <del>MP</del> PC, MP	Date: 9/10/07
Well I.D.: mw-5	Well Diameter: <input checked="" type="radio"/> 3 <input type="radio"/> 4 <input type="radio"/> 6 <input type="radio"/> 8
Total Well Depth (TD): 29.65	Depth to Water (DTW): 20.63
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <input checked="" type="radio"/> PVC Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 22.43	

Purge Method:  Bailer      Waterra      Sampling Method:  Bailer  
 Disposable Bailer       Peristaltic       Disposable Bailer  
 Positive Air Displacement       Extraction Pump       Extraction Port  
 Electric Submersible      Other \_\_\_\_\_       Dedicated Tubing

Other: \_\_\_\_\_

$1.4 \text{ (Gals.)} \times 4 = 5.6 \text{ Gals.}$ <p style="font-size: small; margin: 0;">1 Case Volume      Specified Volumes      Calculated Volume</p>	<table border="1" style="width: 100%; border-collapse: collapse; font-size: x-small;"> <thead> <tr> <th>Well Diameter</th> <th>Multiplier</th> <th>Well Diameter</th> <th>Multiplier</th> </tr> </thead> <tbody> <tr> <td>1"</td> <td>0.04</td> <td>4"</td> <td>0.65</td> </tr> <tr> <td>2"</td> <td>0.16</td> <td>6"</td> <td>1.47</td> </tr> <tr> <td>3"</td> <td>0.37</td> <td>Other</td> <td>radius<sup>2</sup> * 0.163</td> </tr> </tbody> </table>	Well Diameter	Multiplier	Well Diameter	Multiplier	1"	0.04	4"	0.65	2"	0.16	6"	1.47	3"	0.37	Other	radius <sup>2</sup> * 0.163
Well Diameter	Multiplier	Well Diameter	Multiplier														
1"	0.04	4"	0.65														
2"	0.16	6"	1.47														
3"	0.37	Other	radius <sup>2</sup> * 0.163														

Time	Temp (°F)	pH	Cond. (mS or <del>US</del> )	Turbidity (NTUs)	Gals. Removed	Observations
0830	69.5	5.59	921.2	71000	1.4	Brown, cloudy
0836	69.2	5.81	821.2	71000	2.8	Brown silty, cloudy
0839	69.2	5.90	806.8	71000	4.2	" " "
0841	69.3	6.00	819.9	71000	5.6	" " "

Did well dewater? Yes  No  Gallons actually evacuated: 5.6

Sampling Date: 9/10/07      Sampling Time: 0845      Depth to Water: ~~20.70~~ 20.70

Sample I.D.: MW-5      Laboratory: STL      Other: Calscience

Analyzed for:  TPH-G  BTEX  MTBE  TPH-D      Other: Oxys, Ethanol

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 #: <u>070910-PC1</u>	Site: <u>97455632</u>
Sampler: <u>PC, MP</u>	Date: <u>9/10/07</u>
Well I.D.: <u>mw-6</u>	Well Diameter: <u>②</u> 3 4 6 8
Total Well Depth (TD): <u>29.25</u>	Depth to Water (DTW): <u>19.42</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>(PVO)</u> Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: <u>21.38</u>	

Purge Method:  Bailer      Waterra      Sampling Method:  Bailer  
 Disposable Bailer       Peristaltic       Disposable Bailer  
 Positive Air Displacement       Extraction Pump       Extraction Port  
 Electric Submersible      Other \_\_\_\_\_       Dedicated Tubing

Other: \_\_\_\_\_

$\frac{1.6 \text{ (Gals.)} \times 4}{\text{Specified Volumes}} = \frac{6.4}{\text{Calculated Volume}} \text{ Gals.}$	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th>Well Diameter</th> <th>Multiplier</th> <th>Well Diameter</th> <th>Multiplier</th> </tr> <tr> <td>1"</td> <td>0.04</td> <td>4"</td> <td>0.65</td> </tr> <tr> <td>2"</td> <td>0.16</td> <td>6"</td> <td>1.47</td> </tr> <tr> <td>3"</td> <td>0.37</td> <td>Other</td> <td>radius<sup>2</sup> * 0.163</td> </tr> </table>	Well Diameter	Multiplier	Well Diameter	Multiplier	1"	0.04	4"	0.65	2"	0.16	6"	1.47	3"	0.37	Other	radius <sup>2</sup> * 0.163
Well Diameter	Multiplier	Well Diameter	Multiplier														
1"	0.04	4"	0.65														
2"	0.16	6"	1.47														
3"	0.37	Other	radius <sup>2</sup> * 0.163														

Time	Temp (°F)	pH	Cond. (mS or <u>①</u> )	Turbidity (NTUs)	Gals. Removed	Observations
0930	70.3	6.13	763.5	71000	1.6	silty, Brown
0932	70.9	6.15	762.9	71000	3.2	" "
0933	70.7	6.20	756.6	71000	4.8	" "
0936	70.4	6.19	763.6	71000	6.4	" "

Did well dewater? Yes  No  Gallons actually evacuated: ~~19.42~~ 6.4

Sampling Date: 9/10/07 Sampling Time: 0940 Depth to Water: 19.41

Sample I.D.: MW-6 Laboratory: STL Other Cal Science

Analyzed for: (TPH-G) (BTEX) MTBE (TPH-D) Other: oxy's, Ethanol

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 #: 070910-PC1	Site: 97450532
Sampler: PC1MP	Date: 9/10/07
Well I.D.: mw-7	Well Diameter: <input checked="" type="radio"/> 3 <input type="radio"/> 4 <input type="radio"/> 6 <input type="radio"/> 8
Total Well Depth (TD): 29.75	Depth to Water (DTW): 19.65
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <input checked="" type="radio"/> NYC <input type="radio"/> Grade	D.O. Meter (if req'd):    YSI    HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 21.67	

Purge Method:  Bailer                      Waterra                      Sampling Method:  Bailer  
                          Disposable Bailer                      Peristaltic                      Disposable Bailer  
                          Positive Air Displacement                      Extraction Pump                      Extraction Port  
                          Electric Submersible                      Other \_\_\_\_\_                      Dedicated Tubing

$1.6 \text{ (Gals.)} \times 4 = 6.4 \text{ Gals.}$ 1 Case Volume                      Specified Volumes                      Calculated Volume	<table border="1" style="width: 100%; border-collapse: collapse; font-size: small;"> <tr> <th>Well Diameter</th> <th>Multiplier</th> <th>Well Diameter</th> <th>Multiplier</th> </tr> <tr> <td>1"</td> <td>0.04</td> <td>4"</td> <td>0.65</td> </tr> <tr> <td>2"</td> <td>0.16</td> <td>6"</td> <td>1.47</td> </tr> <tr> <td>3"</td> <td>0.37</td> <td>Other</td> <td>radius<sup>2</sup> * 0.163</td> </tr> </table>	Well Diameter	Multiplier	Well Diameter	Multiplier	1"	0.04	4"	0.65	2"	0.16	6"	1.47	3"	0.37	Other	radius <sup>2</sup> * 0.163
Well Diameter	Multiplier	Well Diameter	Multiplier														
1"	0.04	4"	0.65														
2"	0.16	6"	1.47														
3"	0.37	Other	radius <sup>2</sup> * 0.163														

Time	Temp (°F)	pH	Cond. (mS or <del>US</del> )	Turbidity (NTUs)	Gals. Removed	Observations
1042	70.8	6.44	604.5	71000	1.6	Silty, Brown
1044	70.7	6.39	616.2	71000	3.2	Silty, Brown
1047	70.9	6.28	622.0	71000	4.8	Silty, Brown
1050	71.0	6.38	617.8	71000	6.4	

Did well dewater?    Yes     No                      Gallons actually evacuated: 6.4

Sampling Date: 09/10/07    Sampling Time: 1100    Depth to Water: 19.78

Sample I.D.: MW-7                      Laboratory: STL    Other: Cal Science

Analyzed for: ~~TPH-G~~  BTEX    MTBE     TPH-D    Other: ~~Dxy~~ 3, Ethanol

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 #: <u>070910-PC1</u>	Site: <u>97456532</u>
Sampler: <u>PC, MP</u>	Date: <u>9/10/07</u>
Well I.D.: <u>mw-8</u>	Well Diameter: <u>2</u> 3 4 6 8
Total Well Depth (TD): <u>29.50</u>	Depth to Water (DTW): <u>20.00</u>
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>21.90</u>	

Purge Method: <input checked="" type="checkbox"/> Bailer <input type="checkbox"/> Disposable Bailer <input type="checkbox"/> Positive Air Displacement <input type="checkbox"/> Electric Submersible	Waterra <input type="checkbox"/> Peristaltic <input type="checkbox"/> Extraction Pump Other: _____	Sampling Method: <input checked="" type="checkbox"/> Bailer <input type="checkbox"/> Disposable Bailer <input type="checkbox"/> Extraction Port <input type="checkbox"/> Dedicated Tubing Other: _____
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$1.5 \text{ (Gals.)} \times 4 = 6 \text{ Gals.}$ 1 Case Volume      Specified Volumes      Calculated Volume	<table border="1" style="width: 100%; border-collapse: collapse; font-size: small;"> <thead> <tr> <th>Well Diameter</th> <th>Multiplier</th> <th>Well Diameter</th> <th>Multiplier</th> </tr> </thead> <tbody> <tr> <td>1"</td> <td>0.04</td> <td>4"</td> <td>0.65</td> </tr> <tr> <td>2"</td> <td>0.16</td> <td>6"</td> <td>1.47</td> </tr> <tr> <td>3"</td> <td>0.37</td> <td>Other</td> <td>radius<sup>2</sup> * 0.163</td> </tr> </tbody> </table>	Well Diameter	Multiplier	Well Diameter	Multiplier	1"	0.04	4"	0.65	2"	0.16	6"	1.47	3"	0.37	Other	radius <sup>2</sup> * 0.163
Well Diameter	Multiplier	Well Diameter	Multiplier														
1"	0.04	4"	0.65														
2"	0.16	6"	1.47														
3"	0.37	Other	radius <sup>2</sup> * 0.163														

Time	Temp (°F)	pH	Cond. (mS or $\mu$ S)	Turbidity (NTUs)	Gals. Removed	Observations
902	66.9	6.40	663.7	>1000	1.5	cloudy, silty, brown ↓   ↓   ↓
906	66.9	6.05	662.5	>1000	3	
910	66.8	6.09	663.4	>1000	4.5	
914	66.8	6.10	662.2	>1000	6	

Did well dewater?    Yes     No    Gallons actually evacuated: 6

Sampling Date: 9/10/07    Sampling Time: 920    Depth to Water: 20.09

Sample I.D.: MW-8    Laboratory: STL    Other: CalScience

Analyzed for: TPH-G ~~BTEX~~ MTBE TPH-D Other: oxyg, Ethanol

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

**APPENDIX B**

**FIELD PROCEDURES**

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**BLAINE**  
TECH SERVICES INC.

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GROUNDWATER SAMPLING SPECIALISTS  
SINCE 1985

September 21, 2007

Carol Campagna  
HSE – Environmental Services  
Shell Oil Products US  
20945 South Wilmington Avenue  
Carson, CA 90810

Third Quarter 2007 Groundwater Monitoring at  
Shell-branded Service Station  
31235 Mission Boulevard  
Hayward, CA

Monitoring performed on September 10, 2007

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Groundwater Monitoring Report **070910-PC-1**

This report covers the routine monitoring of groundwater wells at this Shell-branded facility. In accordance with standard procedures that conform to Regional Water Quality Control Board requirements, routine field data collection includes depth to water, total well depth, thickness of any separate immiscible layer, water column volume, 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/ks

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

cc: Debbie Bryan  
Delta Environmental  
175 Bernal Road, Suite 200  
San Jose, CA 95119



# BLAINE TECH SERVICES, INC. METHODS AND PROCEDURES FOR THE ROUTINE MONITORING OF GROUNDWATER WELLS AT SHELL SITES

Blaine Tech Services, Inc. performs environmental sampling and documentation as an independent third party. We specialize in groundwater monitoring assignments and intentionally limit the scope of our services to those centered on the generation of objective information.

To avoid conflicts of interest, Blaine Tech Services, Inc. personnel do not evaluate or interpret the information we collect. As a state licensed contractor (C-57 well drilling –water – 746684.) performing strictly technical services, we do not make any professional recommendations and perform no consulting of any kind.

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## SAMPLING PROCEDURES OVERVIEW

### SAFETY

All groundwater monitoring assignments performed for Shell comply with Shell's safety guidelines, 29 CFR 1910.120 and SB-198 Injury and Illness Prevention Program (IIPP). All Field Technicians receive the full 40-hour 29CFR 1910.120 OSHA SARA HAZWOPER course, medical clearance and on-the-job training prior to commencing any work on any Shell site.

### INSPECTION AND GAUGING

Wells are inspected prior to evacuation and sampling. The condition of the wellhead is checked and noted according to a wellhead inspection checklist.

Standard measurements include the depth to water (DTW) and the total well depth (TD) obtained with industry standard electronic water level indicators that are graduated in increments of hundredths of a foot.

The water in each well is inspected for the presence of immiscibles. When free product is suspected, its presence is confirmed using an electronic interface probe (e.g. MMC). No samples are collected from a well containing over two-hundredths of a foot (0.02') of product.

### EVACUATION

Depth to water measurements are collected by our personnel prior to purging and minimum purge volumes are calculated anew for each well based on the height of the water column and the diameter of the well. Expected purge volumes are never less than three case volumes and are set at no less than four case volumes in some jurisdictions.

Well purging devices are selected on the basis of the well diameter and the total volume to be evacuated. In most cases the well will be purged using an electric submersible pump (i.e. Grundfos) suspended near (but not touching) the bottom of the well.

## PARAMETER STABILIZATION

Well purging completion standards include minimum purge volumes, but additionally require stabilization of specific groundwater parameters prior to sample collection. Typical groundwater parameters used to measure stability are electrical conductivity, pH, and temperature. Instrument readings are obtained at regular intervals during the evacuation process (no less than once per case volume).

Stabilization standards for routine quarterly monitoring of fuel sites include the following: Temperature is considered to have stabilized when successive readings do not fluctuate more than +/- 1 degree Celsius. Electrical conductivity is considered stable when successive readings are within 10%. pH is considered to be stable when successive readings remain constant or vary no more than 0.2 of a pH unit.

## DEWATERED WELLS

Normal evacuation removes no less than three case volumes of water from the well. However, less water may be removed in cases where the well dewateres and does not immediately recharge.

## MEASURING RECHARGE

Upon completion of well purging, a depth to water measurement is collected and notated to ensure that the well has recharged to within 80% of its static, pre-purge level prior to sampling.

Wells that do not immediately show 80% recharge or dewatered wells will be allowed a minimum of 2 hours to recharge prior to sampling. The water level at time of sampling will be noted.

## PURGEWATER CONTAINMENT

All non-hazardous purgewater evacuated from each groundwater monitoring well is captured and contained in on-board storage tanks on the Sampling Vehicle and/or special water hauling trailers. Effluent from the decontamination of reusable apparatus (sounders, electric pumps and hoses etc.), consisting of groundwater combined with deionized water and non-phosphate soap, is also captured and pumped into effluent tanks.

Non-hazardous purgewater is transported under standard Bill of Lading documentation to a Blaine Tech Services, Inc. facility before being transported to a Shell approved disposal facility.

## SAMPLE COLLECTION DEVICES

All samples are collected using a stainless steel, Teflon or disposable bailers.

## SAMPLE CONTAINERS

Sample material is decanted directly from the sampling bailer into sample containers provided by the laboratory that will analyze the samples. The transfer of sample material from the bailer to the sample container conforms to specifications contained in the USEPA T.E.G.D. The type of sample container; material of construction, method of closure and filling requirements are specific to the intended analysis. Chemicals needed to preserve the sample material are commonly placed inside the sample containers by the laboratory or glassware vendor prior to delivery of the bottle to our personnel. The laboratory sets the number of replicate containers.

## TRIP BLANKS

Trip Blanks, if requested, are taken to the site and kept inside the sample cooler for the duration of the event. They are turned over to the laboratory for analysis with the samples from that site.

## DUPLICATES

Duplicates, if requested, may be collected at a site. The Field Technician uses their discretion in choosing the well at which the Duplicate is collected, typically one suspected of containing measurable contaminants. The Duplicate sample is labeled "DUP" and the time of collection is omitted from the COC, thus rendering the sample blind.

## SAMPLE STORAGE

All sample containers are promptly placed in food grade ice chests for storage in the field and transport (direct or via our facility) to the designated analytical laboratory. These ice chests contain quantities of restaurant grade ice as a refrigerant material. The samples are maintained in either an ice chest or a refrigerator until relinquished into the custody of the laboratory or laboratory courier.

## DOCUMENTATION CONVENTIONS

A label must be affixed to all sample containers. In most cases these labels are generated by our office personnel and are partially preprinted. Labels can also be hand written by our field personnel. The site is identified with the store number and site address, as is the particular groundwater well from which the sample is drawn (e.g. MW-1, MW-2, S-1 etc.). The time and date of sample collection along with the initials of the person who collects the sample are handwritten onto the label.

Chain of Custody records are created using client specific preprinted forms following USEPA specifications.

Bill of Lading records are contemporaneous records created in the field at the site where the non-hazardous purgewater is generated. Field Technicians use preprinted Bill of Lading forms.

## DECONTAMINATION

All equipment is brought to the site in clean and serviceable condition and is cleaned after use in each well and before subsequent use in any other well. Equipment is decontaminated before leaving the site.

The primary decontamination device is a commercial steam cleaner. The steam cleaner is de-tuned to function as a hot pressure washer that is then operated with high quality deionized water that is produced at our facility and stored onboard our sampling vehicle. Cleaning is facilitated by the use of proprietary fixtures and devices included in the patented workstation (U.S. Patent 5,535,775) that is incorporated in each sampling vehicle. The steam cleaner is used to decon reels, pumps and bailers.

Any sensitive equipment or parts (i.e. Dissolved Oxygen sensor membrane, water level indicator, etc.) that cannot be washed using the high pressure water, will be sprayed with a non-phosphate soap and deionized water solution and rinsed with deionized water.

## DISSOLVED OXYGEN READINGS

Dissolved Oxygen readings are taken pre- and/or post-purge using YSI meters (e.g. YSI Model 54, 58 or 95) or HACH field test kits.

The YSI meters are equipped with a stirring device that enables them to collect accurate in-situ readings. The probe/stirring devices are modified to allow downhole measurements to be taken from wells with diameters as small as two inches. The probe and reel is decontaminated between wells as described above. The meter is calibrated between wells as per the instructions in the operating manual. The probe and stirrer is lowered into the water column. The reading is allowed to stabilize prior to collection.

## OXYIDATON REDUCTION POTENTIAL READINGS

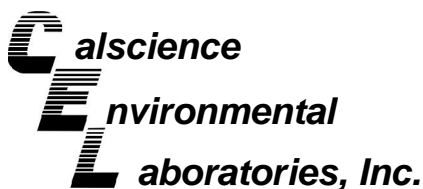
All readings are obtained with either Corning or Myron-L meters (e.g. Corning ORP-65 or a Myron-L Ultrameter GP). The meter is cleaned between wells as described above. The meter is calibrated at the start of each day according to the instruction manual.

## FERROUS IRON MEASUREMENTS

All field measurements are collected at time of sampling with a HACH test kit.

**APPENDIX C**

**LABORATORY REPORT AND CHAIN-OF-CUSTODY DOCUMENTATION**



September 21, 2007

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

Subject: **Calscience Work Order No.: 07-09-0795**  
**Client Reference: 31235 Mission Blvd., Hayward, CA**

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 9/13/2007 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 'Danielle Gonsman', with a horizontal line extending to the right.

Calscience Environmental  
Laboratories, Inc.  
Danielle Gonsman  
Project Manager

## Analytical Report



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

Date Received: 09/13/07  
Work Order No: 07-09-0795  
Preparation: EPA 3510C  
Method: EPA 8015B (M)

Project: 31235 Mission Blvd., Hayward, CA

Page 1 of 3

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Instrument	Date Prepared	Date Analyzed	QC Batch ID
<b>MW-1</b>	<b>07-09-0795-1</b>	<b>09/10/07</b>	<b>Aqueous</b>	<b>GC 23</b>	<b>09/17/07</b>	<b>09/19/07</b>	<b>070918B11</b>

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

Parameter	Result	RL	DF	Qual	Units
TPH as Diesel	51	50	1		ug/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
Decachlorobiphenyl	70	68-140			

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Instrument	Date Prepared	Date Analyzed	QC Batch ID
<b>MW-2</b>	<b>07-09-0795-2</b>	<b>09/10/07</b>	<b>Aqueous</b>	<b>GC 23</b>	<b>09/17/07</b>	<b>09/19/07</b>	<b>070918B11</b>

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

Parameter	Result	RL	DF	Qual	Units
TPH as Diesel	51	50	1		ug/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
Decachlorobiphenyl	71	68-140			

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Instrument	Date Prepared	Date Analyzed	QC Batch ID
<b>MW-3</b>	<b>07-09-0795-3</b>	<b>09/10/07</b>	<b>Aqueous</b>	<b>GC 23</b>	<b>09/17/07</b>	<b>09/19/07</b>	<b>070918B11</b>

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
TPH as Diesel	420	50	1		ug/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
Decachlorobiphenyl	74	68-140			

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Instrument	Date Prepared	Date Analyzed	QC Batch ID
<b>MW-4</b>	<b>07-09-0795-4</b>	<b>09/10/07</b>	<b>Aqueous</b>	<b>GC 23</b>	<b>09/17/07</b>	<b>09/19/07</b>	<b>070918B11</b>

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
TPH as Diesel	180	50	1		ug/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
Decachlorobiphenyl	74	68-140			

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

## Analytical Report



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

Date Received: 09/13/07  
Work Order No: 07-09-0795  
Preparation: EPA 3510C  
Method: EPA 8015B (M)

Project: 31235 Mission Blvd., Hayward, CA

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Client Sample Number	Lab Sample Number	Date Collected	Matrix	Instrument	Date Prepared	Date Analyzed	QC Batch ID
<b>MW-5</b>	<b>07-09-0795-5</b>	<b>09/10/07</b>	<b>Aqueous</b>	<b>GC 23</b>	<b>09/17/07</b>	<b>09/19/07</b>	<b>070918B11</b>

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

Parameter	Result	RL	DF	Qual	Units
TPH as Diesel	ND	50	1		ug/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
Decachlorobiphenyl	73	68-140			

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Instrument	Date Prepared	Date Analyzed	QC Batch ID
<b>MW-6</b>	<b>07-09-0795-6</b>	<b>09/10/07</b>	<b>Aqueous</b>	<b>GC 23</b>	<b>09/17/07</b>	<b>09/19/07</b>	<b>070918B11</b>

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

Parameter	Result	RL	DF	Qual	Units
TPH as Diesel	ND	50	1		ug/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
Decachlorobiphenyl	74	68-140			

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Instrument	Date Prepared	Date Analyzed	QC Batch ID
<b>MW-7</b>	<b>07-09-0795-7</b>	<b>09/10/07</b>	<b>Aqueous</b>	<b>GC 23</b>	<b>09/17/07</b>	<b>09/19/07</b>	<b>070918B11</b>

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

Parameter	Result	RL	DF	Qual	Units
TPH as Diesel	ND	50	1		ug/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
Decachlorobiphenyl	72	68-140			

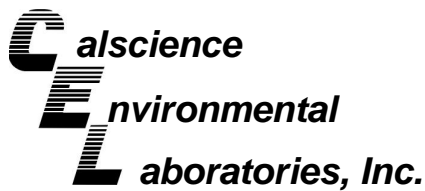
Client Sample Number	Lab Sample Number	Date Collected	Matrix	Instrument	Date Prepared	Date Analyzed	QC Batch ID
<b>MW-8</b>	<b>07-09-0795-8</b>	<b>09/10/07</b>	<b>Aqueous</b>	<b>GC 23</b>	<b>09/17/07</b>	<b>09/19/07</b>	<b>070918B11</b>

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

Parameter	Result	RL	DF	Qual	Units
TPH as Diesel	ND	50	1		ug/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
Decachlorobiphenyl	76	68-140			

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





Analytical Report



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

Date Received: 09/13/07  
 Work Order No: 07-09-0795  
 Preparation: EPA 3510C  
 Method: EPA 8015B (M)

Project: 31235 Mission Blvd., Hayward, CA

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Client Sample Number	Lab Sample Number	Date Collected	Matrix	Instrument	Date Prepared	Date Analyzed	QC Batch ID
Method Blank	099-12-330-362	N/A	Aqueous	GC 23	09/17/07	09/19/07	070918B11

Parameter	Result	RL	DF	Qual	Units
TPH as Diesel	ND	50	1		ug/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
Decachlorobiphenyl	88	68-140			

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

## Analytical Report



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

Date Received: 09/13/07  
Work Order No: 07-09-0795  
Preparation: EPA 5030B  
Method: EPA 8015B (M)

Project: 31235 Mission Blvd., Hayward, CA

Page 1 of 3

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Instrument	Date Prepared	Date Analyzed	QC Batch ID
<b>MW-1</b>	<b>07-09-0795-1</b>	<b>09/10/07</b>	<b>Aqueous</b>	<b>GC 29</b>	<b>09/13/07</b>	<b>09/13/07</b>	<b>070913B01</b>

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qual</u>	<u>Units</u>
TPH as Gasoline	ND	50	1		ug/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
1,4-Bromofluorobenzene	67	38-134			

<b>MW-2</b>	<b>07-09-0795-2</b>	<b>09/10/07</b>	<b>Aqueous</b>	<b>GC 29</b>	<b>09/13/07</b>	<b>09/13/07</b>	<b>070913B01</b>
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<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qual</u>	<u>Units</u>
TPH as Gasoline	ND	50	1		ug/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
1,4-Bromofluorobenzene	72	38-134			

<b>MW-3</b>	<b>07-09-0795-3</b>	<b>09/10/07</b>	<b>Aqueous</b>	<b>GC 30</b>	<b>09/14/07</b>	<b>09/14/07</b>	<b>070914B02</b>
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<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qual</u>	<u>Units</u>
TPH as Gasoline	2300	1200	25		ug/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
1,4-Bromofluorobenzene	93	38-134			

<b>MW-4</b>	<b>07-09-0795-4</b>	<b>09/10/07</b>	<b>Aqueous</b>	<b>GC 30</b>	<b>09/14/07</b>	<b>09/14/07</b>	<b>070914B02</b>
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<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qual</u>	<u>Units</u>
TPH as Gasoline	85	50	1		ug/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
1,4-Bromofluorobenzene	87	38-134			

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

## Analytical Report



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

Date Received: 09/13/07  
Work Order No: 07-09-0795  
Preparation: EPA 5030B  
Method: EPA 8015B (M)

Project: 31235 Mission Blvd., Hayward, CA

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Client Sample Number	Lab Sample Number	Date Collected	Matrix	Instrument	Date Prepared	Date Analyzed	QC Batch ID
<b>MW-5</b>	<b>07-09-0795-5</b>	<b>09/10/07</b>	<b>Aqueous</b>	<b>GC 29</b>	<b>09/13/07</b>	<b>09/13/07</b>	<b>070913B01</b>

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qual</u>	<u>Units</u>
TPH as Gasoline	ND	50	1		ug/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
1,4-Bromofluorobenzene	49	38-134			

<b>MW-6</b>	<b>07-09-0795-6</b>	<b>09/10/07</b>	<b>Aqueous</b>	<b>GC 29</b>	<b>09/13/07</b>	<b>09/13/07</b>	<b>070913B01</b>
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<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qual</u>	<u>Units</u>
TPH as Gasoline	ND	50	1		ug/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
1,4-Bromofluorobenzene	59	38-134			

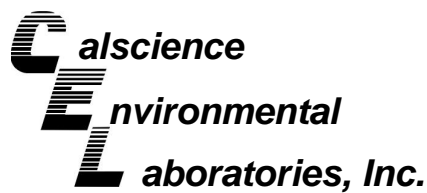
<b>MW-7</b>	<b>07-09-0795-7</b>	<b>09/10/07</b>	<b>Aqueous</b>	<b>GC 29</b>	<b>09/13/07</b>	<b>09/13/07</b>	<b>070913B01</b>
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<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qual</u>	<u>Units</u>
TPH as Gasoline	ND	50	1		ug/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
1,4-Bromofluorobenzene	71	38-134			

<b>MW-8</b>	<b>07-09-0795-8</b>	<b>09/10/07</b>	<b>Aqueous</b>	<b>GC 29</b>	<b>09/13/07</b>	<b>09/13/07</b>	<b>070913B01</b>
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<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qual</u>	<u>Units</u>
TPH as Gasoline	ND	50	1		ug/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
1,4-Bromofluorobenzene	74	38-134			

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



## Analytical Report



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

Date Received: 09/13/07  
Work Order No: 07-09-0795  
Preparation: EPA 5030B  
Method: EPA 8015B (M)

Project: 31235 Mission Blvd., Hayward, CA

Page 3 of 3

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Instrument	Date Prepared	Date Analyzed	QC Batch ID
Method Blank	099-12-436-903	N/A	Aqueous	GC 29	09/13/07	09/13/07	070913B01

Parameter	Result	RL	DF	Qual	Units
TPH as Gasoline	ND	50	1		ug/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
1,4-Bromofluorobenzene	71	38-134			

Method Blank	099-12-436-914	N/A	Aqueous	GC 30	09/14/07	09/14/07	070914B02
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Parameter	Result	RL	DF	Qual	Units
TPH as Gasoline	ND	50	1		ug/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
1,4-Bromofluorobenzene	89	38-134			

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

## Analytical Report

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

Date Received: 09/13/07  
Work Order No: 07-09-0795  
Preparation: EPA 5030B  
Method: EPA 8260B  
Units: ug/L

Project: 31235 Mission Blvd., Hayward, CA

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Client Sample Number	Lab Sample Number	Date Collected	Matrix	Instrument	Date Prepared	Date Analyzed	QC Batch ID
MW-1	07-09-0795-1	09/10/07	Aqueous	GC/MS BB	09/18/07	09/18/07	070918L01

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Benzene	ND	2.5	0.70	5		Tert-Butyl Alcohol (TBA)	3400	50	27	5	
Ethylbenzene	ND	5.0	1.1	5		Diisopropyl Ether (DIPE)	ND	10	1.7	5	
Toluene	ND	5.0	1.4	5		Ethyl-t-Butyl Ether (ETBE)	ND	10	0.92	5	
p/m-Xylene	ND	5.0	2.7	5		Tert-Amyl-Methyl Ether (TAME)	ND	10	5.6	5	
o-Xylene	ND	5.0	0.84	5		Ethanol	ND	500	430	5	
Methyl-t-Butyl Ether (MTBE)	840	10	2.6	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	104	74-140				1,2-Dichloroethane-d4	105	74-146			
Toluene-d8	100	88-112				1,4-Bromofluorobenzene	98	74-110			

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Instrument	Date Prepared	Date Analyzed	QC Batch ID
MW-2	07-09-0795-2	09/10/07	Aqueous	GC/MS BB	09/18/07	09/18/07	070918L01

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

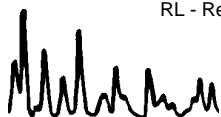
Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Benzene	ND	0.50	0.14	1		Tert-Butyl Alcohol (TBA)	22	10	5.4	1	
Ethylbenzene	ND	1.0	0.23	1		Diisopropyl Ether (DIPE)	ND	2.0	0.33	1	
Toluene	ND	1.0	0.27	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	0.18	1	
p/m-Xylene	ND	1.0	0.54	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	1.1	1	
o-Xylene	ND	1.0	0.17	1		Ethanol	ND	100	86	1	
Methyl-t-Butyl Ether (MTBE)	1.1	1.0	0.26	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	104	74-146			
Toluene-d8	98	88-112				1,4-Bromofluorobenzene	98	74-110			

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Instrument	Date Prepared	Date Analyzed	QC Batch ID
MW-3	07-09-0795-3	09/10/07	Aqueous	GC/MS BB	09/18/07	09/18/07	070918L01

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Benzene	0.32	0.50	0.14	1	J	Tert-Butyl Alcohol (TBA)	950	10	5.4	1	
Ethylbenzene	12	1.0	0.23	1		Diisopropyl Ether (DIPE)	ND	2.0	0.33	1	
Toluene	ND	1.0	0.27	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	0.18	1	
p/m-Xylene	1.4	1.0	0.54	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	1.1	1	
o-Xylene	ND	1.0	0.17	1		Ethanol	ND	100	86	1	
Methyl-t-Butyl Ether (MTBE)	13	1.0	0.26	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	105	88-112				1,4-Bromofluorobenzene	100	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: 09/13/07  
Work Order No: 07-09-0795  
Preparation: EPA 5030B  
Method: EPA 8260B  
Units: ug/L

Project: 31235 Mission Blvd., Hayward, CA

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Client Sample Number	Lab Sample Number	Date Collected	Matrix	Instrument	Date Prepared	Date Analyzed	QC Batch ID
MW-4	07-09-0795-4	09/10/07	Aqueous	GC/MS BB	09/18/07	09/18/07	070918L01

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Benzene	ND	0.50	0.14	1		Tert-Butyl Alcohol (TBA)	270	10	5.4	1	
Ethylbenzene	ND	1.0	0.23	1		Diisopropyl Ether (DIPE)	ND	2.0	0.33	1	
Toluene	ND	1.0	0.27	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	0.18	1	
p/m-Xylene	ND	1.0	0.54	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	1.1	1	
o-Xylene	ND	1.0	0.17	1		Ethanol	ND	100	86	1	
Methyl-t-Butyl Ether (MTBE)	3.0	1.0	0.26	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	104	74-146			
Toluene-d8	100	88-112				1,4-Bromofluorobenzene	99	74-110			

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Instrument	Date Prepared	Date Analyzed	QC Batch ID
MW-5	07-09-0795-5	09/10/07	Aqueous	GC/MS BB	09/18/07	09/18/07	070918L01

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

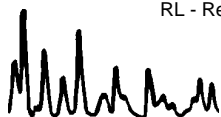
Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Benzene	ND	0.50	0.14	1		Tert-Butyl Alcohol (TBA)	ND	10	5.4	1	
Ethylbenzene	ND	1.0	0.23	1		Diisopropyl Ether (DIPE)	ND	2.0	0.33	1	
Toluene	ND	1.0	0.27	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	0.18	1	
p/m-Xylene	ND	1.0	0.54	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	1.1	1	
o-Xylene	ND	1.0	0.17	1		Ethanol	ND	100	86	1	
Methyl-t-Butyl Ether (MTBE)	0.91	1.0	0.26	1	J						
<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	103	74-140				1,2-Dichloroethane-d4	105	74-146			
Toluene-d8	98	88-112				1,4-Bromofluorobenzene	98	74-110			

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Instrument	Date Prepared	Date Analyzed	QC Batch ID
MW-6	07-09-0795-6	09/10/07	Aqueous	GC/MS BB	09/18/07	09/18/07	070918L01

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Benzene	ND	0.50	0.14	1		Tert-Butyl Alcohol (TBA)	ND	10	5.4	1	
Ethylbenzene	ND	1.0	0.23	1		Diisopropyl Ether (DIPE)	ND	2.0	0.33	1	
Toluene	ND	1.0	0.27	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	0.18	1	
p/m-Xylene	ND	1.0	0.54	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	1.1	1	
o-Xylene	ND	1.0	0.17	1		Ethanol	ND	100	86	1	
Methyl-t-Butyl Ether (MTBE)	160	1.0	0.26	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	104	74-140				1,2-Dichloroethane-d4	105	74-146			
Toluene-d8	100	88-112				1,4-Bromofluorobenzene	97	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: 09/13/07  
Work Order No: 07-09-0795  
Preparation: EPA 5030B  
Method: EPA 8260B  
Units: ug/L

Project: 31235 Mission Blvd., Hayward, CA

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Client Sample Number	Lab Sample Number	Date Collected	Matrix	Instrument	Date Prepared	Date Analyzed	QC Batch ID
MW-7	07-09-0795-7	09/10/07	Aqueous	GC/MS BB	09/18/07	09/18/07	070918L01

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Benzene	ND	2.5	0.70	5		Tert-Butyl Alcohol (TBA)	ND	50	27	5	
Ethylbenzene	ND	5.0	1.1	5		Diisopropyl Ether (DIPE)	ND	10	1.7	5	
Toluene	ND	5.0	1.4	5		Ethyl-t-Butyl Ether (ETBE)	ND	10	0.92	5	
p/m-Xylene	ND	5.0	2.7	5		Tert-Amyl-Methyl Ether (TAME)	ND	10	5.6	5	
o-Xylene	ND	5.0	0.84	5		Ethanol	ND	500	430	5	
Methyl-t-Butyl Ether (MTBE)	480	5.0	1.3	5							
<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	104	74-140				1,2-Dichloroethane-d4	106	74-146			
Toluene-d8	99	88-112				1,4-Bromofluorobenzene	99	74-110			

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Instrument	Date Prepared	Date Analyzed	QC Batch ID
MW-8	07-09-0795-8	09/10/07	Aqueous	GC/MS BB	09/18/07	09/18/07	070918L01

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

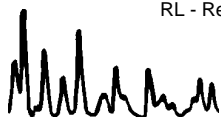
Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Benzene	ND	0.50	0.14	1		Tert-Butyl Alcohol (TBA)	ND	10	5.4	1	
Ethylbenzene	ND	1.0	0.23	1		Diisopropyl Ether (DIPE)	ND	2.0	0.33	1	
Toluene	ND	1.0	0.27	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	0.18	1	
p/m-Xylene	ND	1.0	0.54	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	1.1	1	
o-Xylene	ND	1.0	0.17	1		Ethanol	ND	100	86	1	
Methyl-t-Butyl Ether (MTBE)	77	1.0	0.26	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	105	74-140				1,2-Dichloroethane-d4	104	74-146			
Toluene-d8	98	88-112				1,4-Bromofluorobenzene	98	74-110			

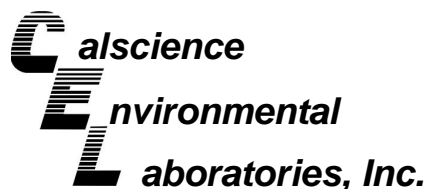
Client Sample Number	Lab Sample Number	Date Collected	Matrix	Instrument	Date Prepared	Date Analyzed	QC Batch ID
Method Blank	099-10-006-22,837	N/A	Aqueous	GC/MS BB	09/18/07	09/18/07	070918L01

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Benzene	ND	0.50	0.14	1		Tert-Butyl Alcohol (TBA)	ND	10	5.4	1	
Ethylbenzene	ND	1.0	0.23	1		Diisopropyl Ether (DIPE)	ND	2.0	0.33	1	
Toluene	ND	1.0	0.27	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	0.18	1	
p/m-Xylene	ND	1.0	0.54	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	1.1	1	
o-Xylene	ND	1.0	0.17	1		Ethanol	ND	100	86	1	
Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.26	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	104	74-140				1,2-Dichloroethane-d4	102	74-146			
Toluene-d8	98	88-112				1,4-Bromofluorobenzene	96	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: 09/13/07  
Work Order No: 07-09-0795  
Preparation: EPA 5030B  
Method: EPA 8260B  
Units: ug/L

Project: 31235 Mission Blvd., Hayward, CA

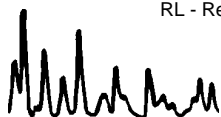
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Client Sample Number	Lab Sample Number	Date Collected	Matrix	Instrument	Date Prepared	Date Analyzed	QC Batch ID
Method Blank	099-10-006-22,845	N/A	Aqueous	GC/MS BB	09/18/07	09/19/07	070918L02

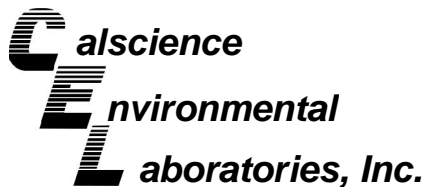
Comment(s): -Results were evaluated to the MDL, concentrations  $\geq$  to the MDL but  $<$  RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Benzene	ND	0.50	0.14	1		Tert-Butyl Alcohol (TBA)	ND	10	5.4	1	
Ethylbenzene	ND	1.0	0.23	1		Diisopropyl Ether (DIPE)	ND	2.0	0.33	1	
Toluene	ND	1.0	0.27	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	0.18	1	
p/m-Xylene	ND	1.0	0.54	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	1.1	1	
o-Xylene	ND	1.0	0.17	1		Ethanol	ND	100	86	1	
Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.26	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	105	74-140			1,2-Dichloroethane-d4	107	74-146				
Toluene-d8	99	88-112			1,4-Bromofluorobenzene	97	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

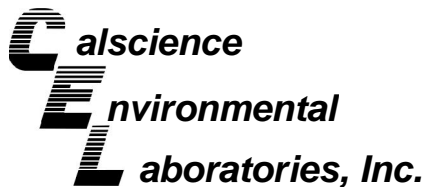
Date Received: 09/13/07  
 Work Order No: 07-09-0795  
 Preparation: EPA 5030B  
 Method: EPA 8015B (M)

Project 31235 Mission Blvd., Hayward, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
07-09-0742-1	Aqueous	GC 29	09/13/07	09/13/07	070913S01

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
TPH as Gasoline	100	99	68-122	1	0-18	

RPD - Relative Percent Difference , CL - Control Limit



**Quality Control - Spike/Spike Duplicate**



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

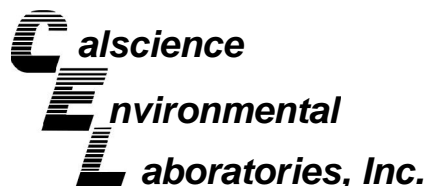
Date Received: 09/13/07  
 Work Order No: 07-09-0795  
 Preparation: EPA 5030B  
 Method: EPA 8015B (M)

Project 31235 Mission Blvd., Hayward, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
07-09-0789-1	Aqueous	GC 30	09/14/07	09/14/07	070914S02

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
TPH as Gasoline	87	96	68-122	10	0-18	

RPD - Relative Percent Difference , CL - Control Limit



## Quality Control - Spike/Spike Duplicate



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

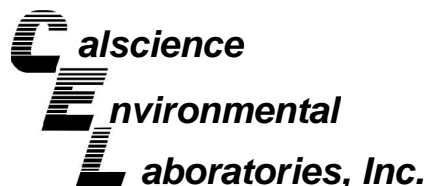
Date Received: 09/13/07  
Work Order No: 07-09-0795  
Preparation: EPA 5030B  
Method: EPA 8260B

Project 31235 Mission Blvd., Hayward, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
07-09-0792-2	Aqueous	GC/MS BB	09/18/07	09/18/07	070918S01

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	92	88	88-118	4	0-7	
Carbon Tetrachloride	97	95	67-145	2	0-11	
Chlorobenzene	90	88	88-118	3	0-7	
1,2-Dibromoethane	97	93	70-130	4	0-30	
1,2-Dichlorobenzene	96	91	86-116	5	0-8	
1,1-Dichloroethene	86	81	70-130	5	0-25	
Ethylbenzene	90	87	70-130	3	0-30	
Toluene	89	87	87-123	3	0-8	
Trichloroethene	87	82	79-127	5	0-10	
Vinyl Chloride	84	82	69-129	3	0-13	
Methyl-t-Butyl Ether (MTBE)	102	98	71-131	5	0-13	
Tert-Butyl Alcohol (TBA)	91	99	36-168	8	0-45	
Diisopropyl Ether (DIPE)	97	94	81-123	3	0-9	
Ethyl-t-Butyl Ether (ETBE)	100	97	72-126	3	0-12	
Tert-Amyl-Methyl Ether (TAME)	100	97	72-126	3	0-12	
Ethanol	86	83	53-149	4	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

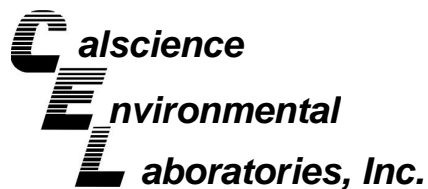
Date Received: 09/13/07  
Work Order No: 07-09-0795  
Preparation: EPA 5030B  
Method: EPA 8260B

Project 31235 Mission Blvd., Hayward, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
07-09-0903-1	Aqueous	GC/MS BB	09/18/07	09/19/07	070918S02

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	88	86	88-118	2	0-7	3
Carbon Tetrachloride	89	93	67-145	5	0-11	
Chlorobenzene	87	85	88-118	1	0-7	3
1,2-Dibromoethane	93	90	70-130	3	0-30	
1,2-Dichlorobenzene	89	86	86-116	4	0-8	
1,1-Dichloroethene	80	80	70-130	1	0-25	
Ethylbenzene	87	86	70-130	1	0-30	
Toluene	87	85	87-123	2	0-8	3
Trichloroethene	81	81	79-127	0	0-10	
Vinyl Chloride	82	85	69-129	4	0-13	
Methyl-t-Butyl Ether (MTBE)	95	94	71-131	1	0-13	
Tert-Butyl Alcohol (TBA)	84	87	36-168	3	0-45	
Diisopropyl Ether (DIPE)	93	92	81-123	1	0-9	
Ethyl-t-Butyl Ether (ETBE)	95	95	72-126	0	0-12	
Tert-Amyl-Methyl Ether (TAME)	97	93	72-126	4	0-12	
Ethanol	83	81	53-149	3	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

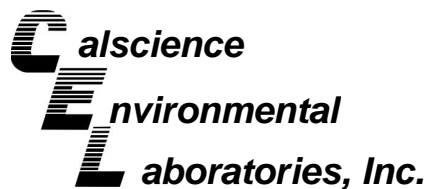
Date Received: N/A  
Work Order No: 07-09-0795  
Preparation: EPA 3510C  
Method: EPA 8015B (M)

Project: 31235 Mission Blvd., Hayward, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-330-362	Aqueous	GC 23	09/17/07	09/19/07	070918B11

<u>Parameter</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>%REC CL</u>	<u>RPD</u>	<u>RPD CL</u>	<u>Qualifiers</u>
TPH as Diesel	84	83	75-117	1	0-13	

RPD - Relative Percent Difference , CL - Control Limit



## Quality Control - LCS/LCS Duplicate



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

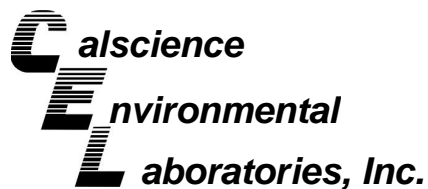
Date Received: N/A  
Work Order No: 07-09-0795  
Preparation: EPA 5030B  
Method: EPA 8015B (M)

Project: 31235 Mission Blvd., Hayward, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-436-903	Aqueous	GC 29	09/13/07	09/13/07	070913B01

<u>Parameter</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>%REC CL</u>	<u>RPD</u>	<u>RPD CL</u>	<u>Qualifiers</u>
TPH as Gasoline	99	98	78-120	0	0-10	

RPD - Relative Percent Difference , CL - Control Limit



## Quality Control - LCS/LCS Duplicate



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

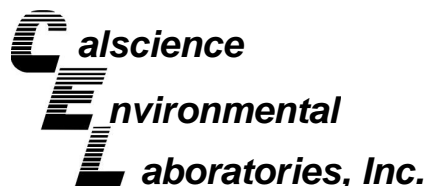
Date Received: N/A  
Work Order No: 07-09-0795  
Preparation: EPA 5030B  
Method: EPA 8015B (M)

Project: 31235 Mission Blvd., Hayward, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-436-914	Aqueous	GC 30	09/14/07	09/14/07	070914B02

<u>Parameter</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>%REC CL</u>	<u>RPD</u>	<u>RPD CL</u>	<u>Qualifiers</u>
TPH as Gasoline	97	98	78-120	0	0-10	

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: 07-09-0795  
Preparation: EPA 5030B  
Method: EPA 8260B

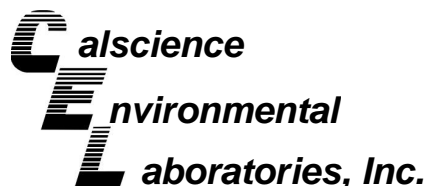
Project: 31235 Mission Blvd., Hayward, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-10-006-22,837	Aqueous	GC/MS BB	09/18/07	09/18/07	070918L01

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	94	90	84-120	4	0-8	
Carbon Tetrachloride	112	102	63-147	9	0-10	
Chlorobenzene	94	90	89-119	5	0-7	
1,2-Dibromoethane	99	95	80-120	4	0-20	
1,2-Dichlorobenzene	95	91	89-119	5	0-9	
1,1-Dichloroethene	93	87	77-125	6	0-16	
Ethylbenzene	95	89	80-120	6	0-20	
Toluene	92	89	83-125	4	0-9	
Trichloroethene	90	86	89-119	4	0-8	X
Vinyl Chloride	94	91	63-135	3	0-13	
Methyl-t-Butyl Ether (MTBE)	102	98	82-118	4	0-13	
Tert-Butyl Alcohol (TBA)	96	128	46-154	28	0-32	
Diisopropyl Ether (DIPE)	97	93	81-123	4	0-11	
Ethyl-t-Butyl Ether (ETBE)	100	96	74-122	5	0-12	
Tert-Amyl-Methyl Ether (TAME)	97	95	76-124	3	0-10	
Ethanol	101	105	60-138	4	0-32	

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: 07-09-0795  
Preparation: EPA 5030B  
Method: EPA 8260B

Project: 31235 Mission Blvd., Hayward, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-10-006-22,845	Aqueous	GC/MS BB	09/18/07	09/18/07	070918L02

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	93	97	84-120	5	0-8	
Carbon Tetrachloride	101	109	63-147	8	0-10	
Chlorobenzene	92	94	89-119	3	0-7	
1,2-Dibromoethane	96	95	80-120	1	0-20	
1,2-Dichlorobenzene	90	93	89-119	3	0-9	
1,1-Dichloroethene	88	95	77-125	8	0-16	
Ethylbenzene	94	96	80-120	3	0-20	
Toluene	92	97	83-125	6	0-9	
Trichloroethene	89	94	89-119	5	0-8	
Vinyl Chloride	91	97	63-135	6	0-13	
Methyl-t-Butyl Ether (MTBE)	96	97	82-118	1	0-13	
Tert-Butyl Alcohol (TBA)	108	110	46-154	2	0-32	
Diisopropyl Ether (DIPE)	93	98	81-123	5	0-11	
Ethyl-t-Butyl Ether (ETBE)	94	98	74-122	3	0-12	
Tert-Amyl-Methyl Ether (TAME)	95	96	76-124	1	0-10	
Ethanol	97	104	60-138	7	0-32	

RPD - Relative Percent Difference , CL - Control Limit

Work Order Number: 07-09-0795

---

<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.
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.



# Re-SHELL Chain Of Custody Record

- TA - Irvine, California
- TA - Morgan Hill, California
- TA - Sacramento, California
- TA - Nashville, Tennessee
- Calscienc
- Other \_\_\_\_\_

**NAME OF PERSON TO BILL: Carol Campagna**

ENVIRONMENTAL SERVICES  CHECK BOX TO VERIFY IF NO INCIDENT # APPLIES

NETWORK DEV. / FE  BILL CONSULTANT

COMPLIANCE  RMT/CRMT

INCIDENT # (ES ONLY): 9 7 4 5 6 5 3 2

SAP or CRMT #

PO #

DATE: 9/10/07

PAGE: 1 of 1

SAMPLING COMPANY: **Blaine Tech Services** | LOG CODE: **BTSS**

ADDRESS: **1680 Rogers Avenue, San Jose, CA 95112**

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

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

SITE ADDRESS: Street and City: **31235 Mission Blvd., Hayward** | State: **CA** | GLOBAL ID NO.: **T0600170016**

EDF DELIVERABLE TO (Name, Company, Office Location): **Jon Suing, Delta, Monrovia Office** | PHONE NO.: **626.256.6662** | E-MAIL: **jsuing@deltaenv.com** | CONSULTANT PROJECT NO.: **BTS # 070910 - PC1**

SAMPLER NAME(S) (Print): **P. Cormish, M. Pierce**

LAB USE ONLY: **09-0795**

TAT (STD IS 10 BUSINESS DAYS / RUSH IS CALENDAR DAYS):  RESULTS NEEDED

STD  5 DAY  3 DAY  2 DAY  24 HOURS ON WEEKEND

LA - RWQCB REPORT FORMAT  UST AGENCY:

SPECIAL INSTRUCTIONS OR NOTES:

EDD NOT NEEDED

SHELL CONTRACT RATE APPLIES

STATE REIMB RATE APPLIES

RECEIPT VERIFICATION REQUESTED

**RUN TPHd w/SILICA GEL CLEAN UP**

CC Tom Hargett [thargett@deltaenv.com](mailto:thargett@deltaenv.com) and Rich Garlow [rgarlow@deltaenv.com](mailto:rgarlow@deltaenv.com) with final report

## REQUESTED ANALYSIS

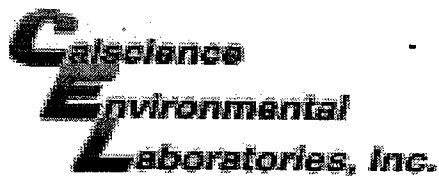
TPH - Gas, Purgeable (8260B)	TPH - Diesel, Extractable (8015M)	BTEX (8260B)	5 Oxygenates (8260B) (MTBE, TBA, DIPE, TAME, ETBE)	MTBE (8260B)	TBA (8260B)	DIPE (8260B)	TAME (8260B)	ETBE (8260B)	1,2 DCA (8260B)	EDB (8260B)	Ethanol (8260B)	Methanol (8015M)	TEMPERATURE ON RECEIPT C°
X	X	X	X								X		
X	X	X	X								X		
X	X	X	X								X		
X	X	X	X								X		
X	X	X	X								X		
X	X	X	X								X		
X	X	X	X								X		
X	X	X	X								X		

**FIELD NOTES:**

Container/Preservative or PID Readings or Laboratory Notes

Relinquished by: (Signature)	Received by: (Signature)	Date: 9/10/07	Time: 1540
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature) <b>Shipped via GSO</b>	Received by: (Signature)	Date: 9/12/07	Time: 1730

*M. Parks 9/13/07 1030*



WORK ORDER #: 07 - 09 - 0795

Cooler 1 of 1

SAMPLE RECEIPT FORM

CLIENT: Blaine Tech

DATE: 9/13/07

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.
°C Temperature blank.

LABORATORY (Other than Calscience Courier):

- 3.7 °C Temperature blank.
°C IR thermometer.
Ambient temperature.

Initial: JP

CUSTODY SEAL INTACT:

Sample(s): Cooler: No (Not Intact): Not Present: [checked]

Initial: JP

SAMPLE CONDITION:

Table with 4 columns: Description, Yes, No, N/A. Rows include Chain-Of-Custody document(s), Sampler's name, Sample container label(s), Sample container(s) intact, Correct containers and volume, Proper preservation, VOA vial(s) free of headspace, Tedlar bag(s) free of condensation.

Initial: JP

COMMENTS:

Blank lines for handwritten comments.

**APPENDIX D**

**INDEMNIFICATION AND RIGHT OF ENTRY AGREEMENTS BETWEEN SHELL OIL  
PRODUCTS AND US TORO DEVELOPMENT CO.**

# BARTKOZANKEL

Bartko • Zankel • Torrant • Miller | Lovitt & Hannan, Inc. of Counsel

Howard L. Pearlman  
hpearlman@bztlm.com

RECEIVED - SOP US

MAR 29 2007

ENVIRONMENTAL SERVICES  
WESTERN REGION



A Professional Corporation

900 Front Street, Suite 300

San Francisco, CA 94111

p: 415.956.1900

f: 415.956.1152

www.bztlm.com

March 27, 2007

VIA FACSIMILE & U.S. MAIL

Shell Oil Products US  
Environmental Services  
20954 S. Wilmington Ave.  
Carson, CA 90810  
Attention: Ms. Carol Campagna ✓

Re: Fairway Park Shopping Center  
31005 through 31199 Mission Blvd., Hayward, California  
*Indemnification and Right of Entry Agreements between Shell Oil  
Products US and Toro Development Co.*

Dear Ms. Campagna:

As you know, Shell Oil Products US ("Shell") and Toro Development Co. ("Toro") were parties to two written agreements pertaining to subsurface contamination at the above-referenced property (the "Property"). Those agreements are entitled "Indemnification and Right of Entry Agreement Between Shell Oil Products US and Toro Development Co. Related To A Former Shell Service Station Located at 31005 Mission Blvd., Hayward, CA" dated December 8, 1999 (the "1999 Contract"), and "Indemnification Agreement Between Shell Oil Products US and Toro Development Co. Related To A Shell Service Station Located at 31235 Mission Boulevard, Hayward, CA," dated as of January 25, 2006 (the "2006 Contract"). 135356

In November 2006, Toro transferred all of its right, title and interest in and to the Property to the following California limited liability companies: The Dennis P. Jordan Properties, LLC; Critzer Properties, LLC; Laurence Kay Properties, LLC; Laurence Kay Properties B, LLC; Olive Greeff, LLC; William Rousseau, LLC; Nicholas Raggio, LLC; Barbara Bleadon Properties, LLC; Ravennaproperties, LLC; Karen Bleadon, LLC; Lenore Bleadon, LLC; and Dorothy Kay, LLC (together, the "LLCs"). In connection therewith, Toro assigned all of its right, title and interest in and to the 1999 Contract and the 2006 Contract to the LLCs. Shell consented to the assignment on January 4, 2007.

Shell Oil Products US  
Attn: Ms. Carol Campagna  
March 27, 2007  
Page 2

I am writing to inform you that on March 23, 2007, the LLCs sold the Property to FPA Hayward Associates, L.P. Contact information for the new owner is:

Ms. Patti Harrison  
Vice President, Dispositions  
Fowler Property Acquisitions  
100 Bush Street, Suite 510  
San Francisco, CA 94104  
Phone: (415) 925-3100, ext 20  
Direct: (415) 249-6182  
Cell: (415) 828-0010  
Fax: (415) 925-3440

The new owner will be preparing a formal assignment document for execution by the LLCs and will submit the same to Shell for consent as provided under the contracts. Please coordinate future work at the Property with Ms. Harrison or her designee.

Very truly yours,

Bartko-Zankel-Tarrant-Miller  
*A Professional Corporation*



Howard L. Pearlman

cc: Mr. Michael McEntire (via e-mail)  
Hon. Laurence D. Kay (via e-mail)  
Ms. Yvonne Critzer (via facsimile)  
Ms. Patti Harrison (via facsimile)  
Nancy Mauriello, Esq. (via facsimile)

# BARTKOZANKEL

Bartko-Zankel-Tarrant-Miller | Lovitt & Hannan, Inc. of Counsel

Howard L. Pearlman  
hpearlman@bztrm.com

A Professional Corporation

900 Front Street, Suite 300

San Francisco, CA 94111

p: 415.956.1900

f: 415.956.1152

www.bztrm.com

November 17, 2006

VIA FACSIMILE & U.S. MAIL

Shell Oil Products US  
Environmental Services  
20954 S. Wilmington Ave.  
Carson, CA 90810  
Attention: Ms. Carol Campagna

RECEIVED - SOP US

NOV 20 2006

ENVIRONMENTAL SERVICES  
WESTERN REGION

Re: Fairway Park Shopping Center  
31005 through 31199 Mission Blvd., Hayward, California  
*Indemnification and Right of Entry Agreements between Shell Oil  
Products US and Toro Development Co.*

Dear Ms. Campagna:

As you know, Shell Oil Products US ("Shell") and Toro Development Co. ("Toro") are parties to two written agreements pertaining to subsurface contamination at the above-referenced property. Those agreements are entitled "Indemnification and Right of Entry Agreement Between Shell Oil Products US and Toro Development Co. Related To A Former Shell Service Station Located at 31005 Mission Blvd., Hayward, CA" dated December 8, 1999 (the "1999 Contract"), and "Indemnification Agreement Between Shell Oil Products US and Toro Development Co. Related To A Shell Service Station Located at 31235 Mission Boulevard, Hayward, CA," dated as of January 25, 2006 (the "2006 Contract").

135356

Paragraph 15 of the 1999 Contract and paragraph 14 of the 2006 Contract permit Toro to assign its right, title and interest in and to the 1999 Contract and the 2006 Contract to Toro's successor-in-interest in the above-referenced property (the "Property") and require Shell, within seven (7) days following receipt of written demand, to execute such documents as the assignor or assignee may reasonably request to evidence the fact that Shell's indemnities and obligations under each contract benefit the assignee.

On or around May 15, 2006, Toro transferred all of its right, title and interest in and to the Property to the following California limited liability companies: The Dennis P. Jordan Properties, LLC; Critzer Properties, LLC; Laurence Kay Properties, LLC; Laurence Kay Properties B, LLC; Olive Greeff, LLC; William Rousseau, LLC; Nicholas Raggio, LLC; Barbara Bleadon Properties, LLC; Ravennaproperties, LLC; Karen Bleadon, LLC; Lenore Bleadon, LLC; and Dorothy Kay, LLC (together, the "Assignees"). On or around October 6, 2006, Toro, as



Shell Oil Products US  
Attn: Ms. Carol Campagna  
November 17, 2006  
Page 2

Assignor, formally assigned its right, title and interest in and to the 1999 Contract and the 2006 Contract to the Assignees pursuant to a document entitled "Assignment of Contracts." A true and correct copy of the Assignment of Contracts is enclosed.

Pursuant to paragraph 15 of the 1999 Contract and paragraph 14 of the 2006 Contract, Assignor and Assignee request that Shell execute the Consent To Assignment (the "Consent") on page 5 of the Assignment of Contracts. Please return the executed Consent to the undersigned on behalf of both the Assignor and Assignee. Please also note the revised notice information set forth in paragraph 3 of the Assignment of Contracts.

We look forward to timely receipt of the executed Consent.

Very truly yours,

Bartko-Zankel-Tarrant-Miller  
*A Professional Corporation*



Howard L. Pearlman

Enclosure

cc: Mr. Michael McEntire (via facsimile and e-mail w/encl.)  
Hon. Laurence D. Kay (via e-mail w/encl.)  
Ms. Yvonne Critzer (via facsimile w/encl.)

## ASSIGNMENT OF CONTRACTS

This Assignment of Contracts ("Assignment") is entered into as of the 6<sup>th</sup> day of October 2006 by and between Toro Development Co. ("Assignor"), on the one hand, and The Dennis P. Jordan Properties, LLC; Critzer Properties, LLC; Laurence Kay Properties, LLC; Laurence Kay Properties B, LLC; Olive Greeff, LLC; William Rousseau, LLC; Nicholas Raggio, LLC; Barbara Bleadon Properties, LLC; Ravennaproperties, LLC; Karen Bleadon, LLC; Lenore Bleadon, LLC; and Dorothy Kay, LLC, all California limited liability companies (together, "Assignees"), on the other hand.

### RECITALS

A. Assignor, as "Owner," is a party to that certain written agreement entitled "Indemnification and Right of Entry Agreement Between Shell Oil Products US and Toro Development Co. Related To A Former Shell Service Station Located at 31005 Mission Blvd., Hayward, CA," dated December 8, 1999 (the "1999 Contract"), a true and correct copy of which is attached hereto as **Exhibit A**.

B. Assignor, as "Owner," is a party to that certain written agreement entitled "Indemnification and Right of Entry Agreement Between Shell Oil Products US and Toro Development Co. Related To A Shell Service Station Located at 31235 Mission Boulevard, Hayward, CA," dated as of January 25, 2006 (the "2006 Contract"), a true and correct copy of which is attached hereto as **Exhibit B**.

C. Paragraph 15 of the 1999 Contract permits Assignor to assign the benefit of any indemnity and other obligation of Shell Oil Products, US ("Shell") thereunder to Assignor's successor-in-interest in that certain improved real property located at 31005 through 31199 Mission Boulevard, Hayward, California, commonly referred to as the Fairway Park Shopping Center (the "Property"), and requires Shell, within seven (7) days following receipt of written demand, to execute such documents as Assignor or its successor-in-interest shall reasonably request to evidence the fact that Shell's indemnities and obligations under the 1999 Contract benefit such assignee.

D. Paragraph 14 of the 2006 Contract permits Assignor to assign the benefit of any indemnity and other obligation of Shell thereunder to Assignor's successor-in-interest in the Property, and requires Shell, within seven (7) days following receipt of written demand, to execute such documents as Assignor or its successor-in-interest shall reasonably request to evidence the fact that Shell's indemnities and obligations under the 2006 Contract benefit such assignee.

E. On or around May 15, 2006, Assignor transferred all of its right, title and interest in and to the Property to Assignee and now wishes to assign to Assignee all of its right, title and interest in and to the 1999 Contract and the 2006 Contract.

NOW, THEREFORE, the parties hereto agree as follows:

1. Assignor hereby assigns to Assignee all of the right, title and interest of Assignor in and to the 1999 Contract and the 2006 Contract.
2. Assignee hereby accepts the assignment and agrees to assume the obligations under the 1999 Contract and the 2006 Contract performable from and after the date hereof, and Assignee will perform as and when due all such obligations in accordance with the terms of the 1999 Contract and the 2006 Contract.
3. As of the date written above, any notice, tender, delivery or other communication from Shell to Owner pursuant to the 1999 Contract and the 2006 Contract shall be given in the manner prescribed therein to the following persons at the following addresses:

Fairwood Management, LLC  
31123 Mission Blvd., Suite C  
Hayward, CA 94544-7697  
Attn: Yvonne Critzer  
Facsimile: (510) 487-0404

AND

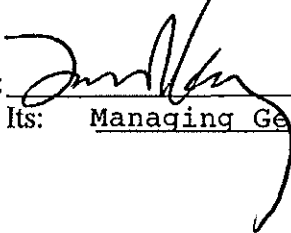
Bartko Zankel  
900 Front Street, Suite 300  
San Francisco, CA 94111  
Attn: Howard L. Pearlman, Esq.  
Facsimile: (415) 956-1152

IN WITNESS WHEREOF, the parties hereto have executed this Assignment as of the date written above.

Dated: Oct. 6, 2006

ASSIGNOR:

TORO DEVELOPMENT CO.

By:  Laurence D. Kay  
Its: Managing General Partner

ASSIGNEES:

Dated: Oct. 6, 2006

The Dennis P. Jordan Properties, LLC, a  
California limited liability company

By: The Dennis P. Jordan Revocable Trust Dated  
August 25, 1987  
Its: Sole Member

By: Jill Jordan  
Jill Jordan, Co-Trustee

By: Yvonne B. Critzer  
Yvonne B. Critzer Co-Trustee

Dated: Oct 6, 2006

Critzer Properties, LLC, a California limited  
liability company

By: Yvonne Barrymore Critzer Trust  
Its: Sole Member

By: Jill Jordan  
Jill Jordan, Co-Trustee

By: Yvonne B. Critzer  
Yvonne B. Critzer Co-Trustee

Dated: \_\_\_\_\_, 2006

Laurence Kay Properties, LLC, a California  
limited liability company

By: \_\_\_\_\_  
Laurence D. Kay  
Its: Sole Member

Dated: \_\_\_\_\_, 2006

Laurence Kay Properties, B, LLC, a California  
limited liability company

By: Trust f/b/o Laurence D. Kay under Trust B  
U/A dtd 2/7/90

By: \_\_\_\_\_  
Laurence D. Kay, trustee

ASSIGNEES:

Dated: \_\_\_\_\_, 2006

The Dennis P. Jordan Properties, LLC, a  
California limited liability company

By: The Dennis P. Jordan Revocable Trust Dated  
August 25, 1987  
Its: Sole Member

By: \_\_\_\_\_  
Jill Jordan, Co-Trustee

By: \_\_\_\_\_  
Yvonne B. Critzer Co-Trustee

Dated: \_\_\_\_\_, 2006

Critzer Properties, LLC, a California limited  
liability company

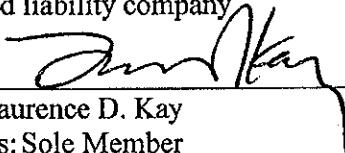
By: Yvonne Barrymore Critzer Trust  
Its: Sole Member

By: \_\_\_\_\_  
Jill Jordan, Co-Trustee

By: \_\_\_\_\_  
Yvonne B. Critzer Co-Trustee

Dated: Oct. 6, 2006

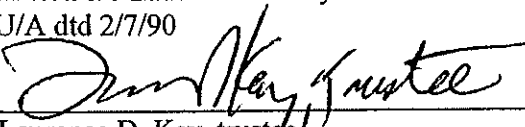
Laurence Kay Properties, LLC, a California  
limited liability company

By:   
Laurence D. Kay  
Its: Sole Member

Dated: Oct. 6, 2006

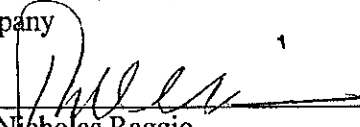
Laurence Kay Properties, B, LLC, a California  
limited liability company

By: Trust f/b/o Laurence D. Kay under Trust B  
U/A dtd 2/7/90

By:   
Laurence D. Kay, trustee

Dated: October 6, 2006

Olive Greeff, LLC, a California limited liability company

By:   
Nicholas Raggio  
Its: Manager

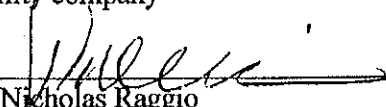
Dated: \_\_\_\_\_, 2006

William Rousseau, LLC, a California limited liability company

By: \_\_\_\_\_  
William H. Rousseau  
Its: Sole Member

Dated: October 6, 2006

Nicholas Raggio, LLC, a California limited liability company

By:   
Nicholas Raggio  
Its: Sole Member

Dated: \_\_\_\_\_, 2006

Barbara Bleadon Properties, LLC, a California limited liability company

By: \_\_\_\_\_  
Barbara Bleadon  
Its: Sole Member

Dated: \_\_\_\_\_, 2006

Ravennaproperties, LLC, a California limited liability company

By: \_\_\_\_\_  
Deborah Bleadon Fraschetti  
Its: Sole Member

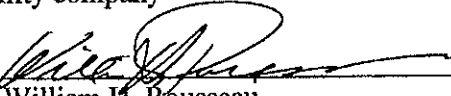
Dated: \_\_\_\_\_, 2006

Olive Greeff, LLC, a California limited liability company

By: \_\_\_\_\_  
Nicholas Raggio  
Its: Manager

Dated: 10/10, 2006

William Rousseau, LLC, a California limited liability company

By:   
William H. Rousseau  
Its: Sole Member

Dated: \_\_\_\_\_, 2006

Nicholas Raggio, LLC, a California limited liability company

By: \_\_\_\_\_  
Nicholas Raggio  
Its: Sole Member

Dated: \_\_\_\_\_, 2006

Barbara Bleadon Properties, LLC, a California limited liability company

By: \_\_\_\_\_  
Barbara Bleadon  
Its: Sole Member

Dated: \_\_\_\_\_, 2006

Ravennaproperties, LLC, a California limited liability company

By: \_\_\_\_\_  
Deborah Bleadon Fraschetti  
Its: Sole Member

Dated: \_\_\_\_\_, 2006

Olive Greeff, LLC, a California limited liability company

By: \_\_\_\_\_  
Nicholas Raggio  
Its: Manager

Dated: \_\_\_\_\_, 2006

William Rousseau, LLC, a California limited liability company

By: \_\_\_\_\_  
William H. Rousseau  
Its: Sole Member

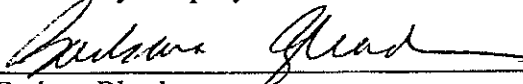
Dated: \_\_\_\_\_, 2006

Nicholas Raggio, LLC, a California limited liability company

By: \_\_\_\_\_  
Nicholas Raggio  
Its: Sole Member

Dated: Oct 6, 2006

Barbara Bleadon Properties, LLC, a California limited liability company

By:   
Barbara Bleadon  
Its: Sole Member

Dated: \_\_\_\_\_, 2006

Ravennaproperties, LLC, a California limited liability company

By: \_\_\_\_\_  
Deborah Bleadon Fraschetti  
Its: Sole Member



Dated: \_\_\_\_\_, 2006

Olive Greeff, LLC, a California limited liability company

By: \_\_\_\_\_  
Nicholas Raggio  
Its: Manager

Dated: \_\_\_\_\_, 2006

William Rousseau, LLC, a California limited liability company

By: \_\_\_\_\_  
William H. Rousseau  
Its: Sole Member

Dated: \_\_\_\_\_, 2006

Nicholas Raggio, LLC, a California limited liability company

By: \_\_\_\_\_  
Nicholas Raggio  
Its: Sole Member

Dated: \_\_\_\_\_, 2006

Barbara Bleadon Properties, LLC, a California limited liability company

By: \_\_\_\_\_  
Barbara Bleadon  
Its: Sole Member

Dated: Oct. 6, 2006

Ravennaproperties, LLC, a California limited liability company

By: Deborah Bleadon Fraschetti  
Deborah Bleadon Fraschetti  
Its: Sole Member

Dated: Oct 21, 2006

Karen Bleadon, LLC, a California limited liability company

By: Karen Bleadon Fry  
Karen Bleadon Fry  
Its: Sole Member

Dated: \_\_\_\_\_, 2006

Lenore Bleadon, LLC, a California limited liability company

By: Trust f/b/o Lenore Bleadon under Trust A  
U/A dtd 2/7/90  
Its: Sole Member

By:

\_\_\_\_\_  
Lenore Bleadon, Trustee

Dated: \_\_\_\_\_, 2006

Dorothy Kay, LLC, a California limited liability company

By: \_\_\_\_\_  
Lenore D. Bleadon  
Its: Sole Member

**CONSENT TO ASSIGNMENT:**

The foregoing Assignment of Contract is consented to by the undersigned.

Dated: \_\_\_\_\_, 2006

SHELL OIL PRODUCTS, US

By: \_\_\_\_\_  
Its: \_\_\_\_\_

Dated: \_\_\_\_\_, 2006

Karen Bleadon, LLC, a California limited liability company

By: \_\_\_\_\_  
Karen Bleadon Fry  
Its: Sole Member

Dated: 10/14, 2006

Lenore Bleadon, LLC, a California limited liability company

By: Trust f/b/o Lenore Bleadon under Trust A  
U/A dtd 2/7/90  
Its: Sole Member

By: Lenore Bleadon, Trustee  
Lenore Bleadon, Trustee

Dated: 10/14, 2006

Dorothy Kay, LLC, a California limited liability company

By: Lenore D. Bleadon  
Lenore D. Bleadon  
Its: Sole Member

**CONSENT TO ASSIGNMENT:**

The foregoing Assignment of Contract is consented to by the undersigned.

Dated: \_\_\_\_\_, 2006

SHELL OIL PRODUCTS, US

By: \_\_\_\_\_  
Its: \_\_\_\_\_