

January 12, 2009  
DELTA Project No. SCA6750S1  
SAP No. 135786

**RECEIVED**

2:14 pm, Feb 17, 2009

Alameda County  
Environmental Health

Mr. Jerry Wickham  
Alameda County Health Care Services Agency  
Environmental Health Services  
1131 Harbor Bay Parkway, Suite 250  
Alameda, CA 94502-6577



Re: **FOURTH QUARTER 2008 GROUNDWATER MONITORING  
AND REMEDIATION STATUS REPORT**  
**Shell-branded Service Station**  
**6750 Santa Rita Road**  
**Pleasanton, California**  
**Case No. RO0002522**

Dear Mr. Wickham:

On behalf of Shell Oil Products US (SHELL), Delta Consultants (DELTA) has prepared this *Fourth Quarter 2008 Groundwater Monitoring and Remediation Status 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 are 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. Jerry Wickham  
Alameda County Environmental Health  
January 12, 2009  
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Should you have any questions or comments regarding this report, please contact Ms. Regina Bussard (DELTA Site Manager) at (408) 826-1876 or Denis Brown (SHELL Project Manager) at (707) 865-0251.

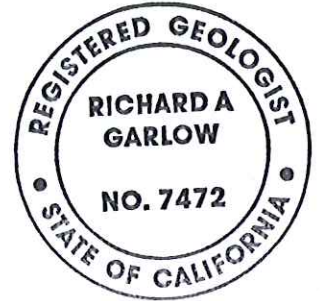
Sincerely,  
**Delta Consultants**



Regina Bussard, P.G.  
Project Manager



Richard A. Garlow, M.S., P.G.  
Project Specialist



Attachment: Fourth Quarter 2008 Groundwater Monitoring and Remediation Status Report

cc: Denis Brown, Shell Oil Products US  
Beverly Howell, GS Management (property owner rep), Pleasanton

January 12, 2009

## SHELL QUARTERLY STATUS REPORT

Station Address: 6750 Santa Rita Rd, Pleasanton, California  
DELTA Project No.: SCA6750S1  
SHELL Project Manager / Phone No.: Denis Brown / (707) 865-0251  
DELTA Site Manager / Phone No.: Regina Bussard / (408) 826-1876  
Primary Agency / Regulatory ID No.: Alameda County Environmental Health (ACEH) /  
Mr. Jerry Wickham Case No. RO0002522  
Other Agencies to Receive Copies: Regional Water Quality Control Board – San Francisco Bay

### WORK PERFORMED THIS QUARTER (FOURTH-2008):

1. Quarterly groundwater monitoring and sampling. Submitted quarterly report.

### WORK PROPOSED FOR NEXT QUARTER (FIRST-2009):

1. Quarterly groundwater monitoring and sampling. Submit quarterly report.

Current Phase of Project: Groundwater Monitoring  
Site Use: Shell-branded Service Station  
Frequency of Sampling: Quarterly  
Frequency of Monitoring: Quarterly  
Frequency of System Sampling: N/A  
Frequency of System Monitoring: N/A  
Is Separate Phase Hydrocarbon Present  Yes  No  
On-site (Well #'s):  
Cumulative SPH Recovered to Date: None  
SPH Recovered This Quarter: None  
Groundwater Removed this Quarter: 49.8 gallons were recovered on October 27, 2008.  
Receptors in Site Vicinity: Drinking Water Well (3S/1E 5J3) is located 1,742 feet southwest of site location.  
Site Lithology: Approximately 40 feet of silty and clayey soils over lying approximately 15 feet of interbedded sands and silty sands, silty and clayey soils, and silty sands and sandy silts. This is underlain by up to 65 feet of silty and clayey soils. There may be a two to three foot thick sandy and silty sand bed at a depth of approximately 100 feet.  
Current Remediation Techniques: None  
Permits for Discharge: None  
Approximate Depth to Groundwater: 21.41 to 23.70 feet below top of well casing.  
Groundwater Gradient: Southerly at approximately 0.02 ft/ft.  
Current Agency Correspondence: ACEH letter dated February 17, 2006 (Appendix A).

January 12, 2009

## SHELL QUARTERLY STATUS REPORT (CONT.)

### Site History:

Case Opening	October 2002, GRASP Well Installation
On-Site Assessment	October 2002, GRASP Well Installation
Off-Site Assessment	1/05, Install MW-5; 2004, CPT Investigation; 2005 Install MW-6 and MW-7
Passive Remediation	Monitor natural attenuation
Active Remediation	None
Closure	None
Summary of Unusual Activity:	None

Discussion: Plume appears stable; TBA was not detected above reporting limits in any wells. TPPH concentrations were detected in onsite wells MW-2, MW-3, and MW-4. MTBE concentrations were detected in onsite wells MW-1 through MW-4. Offsite, down-gradient wells have no detectable petroleum hydrocarbon related constituents of concern.

## **ATTACHMENTS:**

### **Table:**

Table 1 – Well Concentrations

### **Figures:**

Figure 1 – Site Location Map

Figure 2 – Groundwater Elevation Contour Map

Figure 3 –Hydrocarbon Distribution in Groundwater Map

### **Appendices:**

Appendix A – Field Data Sheets

Appendix B – Field Procedures

Appendix C – Laboratory Report and Chain-of-Custody Documentation

## TABLE

**TABLE 1**  
**WELL CONCENTRATIONS**  
**Shell-branded Service Station**  
**6750 Santa Rita Road**  
**Pleasanton, 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)	1,2- DCA (ug/L)	EDB (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)
MW-1	12/4/2002	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	31.75	NA
MW-1	12/22/2002	<50	81	<0.50	<0.50	<0.50	<0.50	62	<2.0	<2.0	<2.0	<50	NA	NA	NA	31.93	NA
MW-1	3/28/2003	<50	70	<0.50	<0.50	<0.50	<1.0	130	<2.0	<2.0	<2.0	43	NA	NA	343.48	31.59	311.89
MW-1	5/9/2003	<250	NA	<2.5	<2.5	<2.5	<5.0	280	<10	<10	<10	200	NA	NA	343.48	31.10	312.38
MW-1	6/30/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	343.48	31.65	311.83
MW-1	7/8/2003	<250	NA	<2.5	<2.5	<2.5	<5.0	160	<10	<10	<10	170	NA	NA	343.48	30.90	312.58
MW-1	7/17/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	343.48	31.53	311.95
MW-1	7/31/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	343.48	29.95	313.53
MW-1	8/29/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	343.48	29.99	313.49
MW-1	9/23/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	343.48	30.02	313.46
MW-1	10/3/2003	<500	NA	<5.0	<5.0	<5.0	<10	810	<20	<20	<20	540	NA	NA	343.48	29.89	313.59
MW-1	10/28/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	343.48	31.38	312.10
MW-1	11/24/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	343.48	29.71	313.77
MW-1	12/29/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	343.48	29.72	313.76
MW-1	1/6/2004	<250	NA	<2.5	<2.5	<2.5	<5.0	400	<10	<10	<10	280	NA	NA	343.48	29.16	314.32
MW-1	4/6/2004	<1,300	NA	<13	<13	<13	<25	3,300	NA	NA	NA	3,500	NA	NA	343.48	31.38	312.10
MW-1	7/30/2004	<1,300	NA	<13	<13	<13	<25	1,000	NA	NA	NA	600	NA	NA	343.48	28.51	314.97
MW-1	10/7/2004	<250	NA	<2.5	<2.5	<2.5	<5.0	530	NA	NA	NA	390	NA	NA	343.48	28.55	314.93
MW-1	1/26/2005	<250	NA	<2.5	<2.5	<2.5	<5.0	320	<10	<10	<10	130	NA	NA	343.48	27.35	316.13
MW-1	4/14/2005	<150	NA	<1.5	<1.5	<1.5	<1.5	720	NA	NA	NA	260	NA	NA	343.48	26.70	316.78
MW-1	7/29/2005	<50	NA	<0.50	<0.50	<0.50	<1.0	270	NA	NA	NA	150	NA	NA	343.48	26.33	317.15
MW-1	10/20/2005	<250	NA	<2.5	<2.5	<2.5	<5.0	39	NA	NA	NA	<25	NA	NA	343.48	27.12	316.36
MW-1	1/27/2006	<50.0	NA	<0.500	<0.500	<0.500	<0.500	30.1	NA	NA	NA	<10.0	NA	NA	343.48	25.25	318.23
MW-1	4/20/2006	<50.0	NA	<0.500	<0.500	<0.500	<0.500	16.9	NA	NA	NA	12.4	NA	NA	343.48	21.37	322.11
MW-1	7/12/2006	<50.0	NA	<0.500	<0.500	<0.500	<0.500	22.5	NA	NA	NA	<10.0	NA	NA	343.48	22.35	321.13
MW-1	10/20/2006	<50	NA	<0.50	<0.50	<0.50	<0.50	1.7	NA	NA	NA	<5.0	NA	NA	343.48	22.67	320.81
MW-1	1/22/2007	<50 d,f	NA	<0.50 d,f	<0.50 d,f	<0.50 d,f	<0.50 d,f	17 d,f	<0.50 d,f	<0.50 d,f	<0.50 d,f	<20 d,f	NA	NA	343.48	21.76	321.72

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Well ID	Date	TPPH (ug/L)	TEPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8260 (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	1,2- DCA (ug/L)	EDB (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)
MW-1	4/11/2007	<50 g	NA	<0.50	<1.0	<1.0	<1.0	1.5	NA	NA	NA	<10	NA	NA	343.48	21.20	322.28
MW-1	7/5/2007	<50 g	NA	<0.50	<1.0	<1.0	<1.0	5.6	NA	NA	NA	<10	NA	NA	343.48	21.98	321.50
MW-1	10/26/2007	<50 g	NA	<0.50	<1.0	<1.0	<1.0	19	NA	NA	NA	<10	NA	NA	343.48	21.61	321.87
MW-1	1/22/2008	<50 g	NA	<0.50	<1.0	<1.0	<1.0	3.9	<2.0	<2.0	<2.0	<10	NA	NA	343.48	23.38	320.10
MW-1	4/11/2008	<50	NA	<0.50	<1.0	<1.0	<1.0	1.2	NA	NA	NA	<10	NA	NA	343.48	19.40	324.08
MW-1	7/2/2008	<50	NA	<0.50	<1.0	<1.0	<1.0	2.0	NA	NA	NA	<10	NA	NA	343.48	20.00	323.48
MW-1	10/27/2008	<50	NA	<0.50	<1.0	<1.0	<1.0	3.8	NA	NA	NA	<10	NA	NA	343.48	21.79	321.69
MW-2	12/4/2002	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	31.25	NA
MW-2	12/22/2002	<200	120	<2.0	<2.0	<2.0	<2.0	660	<2.0	<2.0	<2.0	<50	NA	NA	NA	30.70	NA
MW-2	3/28/2003	<2,500	60	<25	<25	<25	<50	4,200	<100	<100	<100	2,500	NA	NA	342.86	30.30	312.56
MW-2	5/9/2003	<2,500	NA	<25	<25	<25	<50	4,000	<100	<100	<100	3,200	NA	NA	342.86	29.83	313.03
MW-2	6/30/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	342.86	30.45	312.41
MW-2	7/8/2003	<2,000	NA	<20	<20	<20	<40	2,800	<80	<80	<80	2,900	NA	NA	342.86	29.86	313.00
MW-2	7/17/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	342.86	30.33	312.53
MW-2	7/31/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	342.86	29.33	313.53
MW-2	8/29/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	342.86	29.98	312.88
MW-2	9/23/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	342.86	30.21	312.65
MW-2	10/3/2003	<2,000	NA	<20	<20	<20	<40	3,600	<80	<80	<80	3,000	NA	NA	342.86	30.43	312.43
MW-2	10/28/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	342.86	29.79	313.07
MW-2	11/24/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	342.86	30.00	312.86
MW-2	12/29/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	342.86	30.14	312.72
MW-2	1/6/2004	<5,000	NA	<50	<50	<50	<100	4,500	<200	<200	<200	1,900	NA	NA	342.86	30.05	312.81
MW-2	4/6/2004	<2,000	NA	<20	<20	<20	<40	4,600	NA	NA	NA	5,100	NA	NA	342.86	29.30	313.56
MW-2	7/30/2004	<500	NA	<5.0	<5.0	<5.0	<10	1,000	NA	NA	NA	950	NA	NA	342.86	28.80	314.06
MW-2	10/7/2004	<2,500	NA	<25	<25	<25	<50	6,300	NA	NA	NA	6,500	NA	NA	342.86	28.02	314.84
MW-2	1/26/2005	<1,300	NA	<13	<13	<13	<25	2,100	<50	<50	<50	2,300	NA	NA	342.86	33.12	309.74
MW-2	4/14/2005	<500	NA	<5.0	<5.0	<5.0	<5.0	2,400	NA	NA	NA	1,100	NA	NA	342.86	25.55	317.31



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MW-2	7/29/2005	<2,500	NA	<25	<25	<25	<50	3,900	NA	NA	NA	1,500	NA	NA	342.86	25.98	316.88
MW-2	10/20/2005	<2,500	NA	<25	<25	<25	<50	2,500	NA	NA	NA	480	NA	NA	342.86	25.91	316.95
MW-2	1/27/2006	2,410	NA	<0.500	<0.500	<0.500	<0.500	3,160	NA	NA	NA	97.0	NA	NA	342.86	24.40	318.46
MW-2	4/20/2006	<50.0	NA	<0.500	0.880	<0.500	1.16	278	NA	NA	NA	72.2	NA	NA	342.86	25.85	317.01
MW-2	7/12/2006	1,120	NA	<0.500	<0.500	<0.500	<0.500	1,100	NA	NA	NA	<10.0	NA	NA	342.86	21.72	321.14
MW-2	10/20/2006	690 c	NA	<0.50	<0.50	<0.50	<0.50	1,100	NA	NA	NA	<5.0	NA	NA	342.86	21.72	321.14
MW-2	1/22/2007	730	NA	<10	<10	<10	<10	990	<10	<10	<10	<400	NA	NA	342.86	21.13	321.73
MW-2	4/11/2007	<50 g	NA	<0.50	<1.0	<1.0	<1.0	1,100	NA	NA	NA	40	NA	NA	342.86	20.35	322.51
MW-2	7/5/2007	360 g,h	NA	<5.0	<10	<10	<10	650	NA	NA	NA	<100	NA	NA	342.86	20.44	322.42
MW-2	10/26/2007	460 g,h	NA	<5.0	<10	<10	<10	690	NA	NA	NA	<100	NA	NA	342.86	19.94	322.92
MW-2	1/22/2008	250 g,h	NA	<5.0	<10	<10	<10	720	<20	<20	<20	<100	NA	NA	342.86	18.71	324.15
MW-2	4/11/2008	<50	NA	<0.50	<1.0	<1.0	<1.0	15	NA	NA	NA	<10	NA	NA	342.86	18.50	324.36
MW-2	7/2/2008	620	NA	<2.5	<5.0	<5.0	<5.0	580	NA	NA	NA	<50	NA	NA	342.86	20.90	321.96
MW-2	10/27/2008	660	NA	<2.5	<5.0	<5.0	<5.0	440	NA	NA	NA	<50	NA	NA	342.86	21.41	321.45
MW-3	12/4/2002	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	31.65	NA
MW-3	12/22/2002	<2,000	72	<20	<20	<20	<20	8,000	<20	<20	<20	1,500	NA	NA	NA	31.10	NA
MW-3	3/28/2003	<5,000	89	<50	<50	<50	<100	10,000	<200	<200	<200	6,100	NA	NA	342.23	30.76	311.47
MW-3	5/9/2003	11,000	NA	<100	<100	<100	<200	15,000	<400	<400	<400	9,300	NA	NA	342.23	30.04	312.19
MW-3	6/30/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	342.23	30.23	312.00
MW-3	7/8/2003	<10,000	NA	<100	<100	<100	<200	9,500	<400	<400	<400	2,500	NA	NA	342.23	30.11	312.12
MW-3	7/17/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	342.23	29.80	312.43
MW-3	7/31/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	342.23	29.94	312.29
MW-3	8/29/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	342.23	30.05	312.18
MW-3	9/23/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	342.23	29.95	312.28
MW-3	10/3/2003	<10,000	NA	<100	<100	<100	<200	8,800	<400	<400	<400	6,600	NA	NA	342.23	29.97	312.26
MW-3	10/28/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	342.23	29.97	312.26
MW-3	11/24/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	342.23	29.94	312.29

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Well ID	Date	TPPH (ug/L)	TEPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8260 (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	1,2- DCA (ug/L)	EDB (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)
MW-3	12/29/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	342.23	29.43	312.80
MW-3	1/6/2004	<5,000	NA	<50	<50	<50	<100	9,800	<200	<200	<200	3,800	NA	NA	342.23	29.25	312.98
MW-3	4/6/2004	<5,000	NA	<50	<50	<50	<100	4,200	NA	NA	NA	2,100	NA	NA	342.23	28.82	313.41
MW-3	7/30/2004	<2,500	NA	<25	<25	<25	<50	3,000	NA	NA	NA	1,200	NA	NA	342.23	28.73	313.50
MW-3	10/7/2004	<1,000	NA	<10	<10	<10	<20	860	NA	NA	NA	320	NA	NA	342.23	28.72	313.51
MW-3	1/26/2005	<500	NA	<5.0	<5.0	<5.0	<10	820	<20	<20	<20	250	NA	NA	342.23	26.50	315.73
MW-3	4/14/2005	<400	NA	<4.0	<4.0	<4.0	<4.0	2,200	NA	NA	NA	590	NA	NA	342.23	26.15	316.08
MW-3	7/29/2005	<2,500	NA	<25	<25	<25	<50	3,100	NA	NA	NA	1,700	NA	NA	342.23	25.50	316.73
MW-3	10/20/2005	<2,000	NA	<20	<20	<20	<40	1,700	NA	NA	NA	220	NA	NA	342.23	26.85	315.38
MW-3	1/27/2006	808	NA	<0.500	<0.500	<0.500	<0.500	736	NA	NA	NA	39.4	NA	NA	342.23	24.95	317.28
MW-3	4/20/2006	<50.0	NA	<0.500	<0.500	<0.500	<0.500	364	NA	NA	NA	<10.0	NA	NA	342.23	21.51	320.72
MW-3	7/12/2006	<50.0	NA	<0.500	<0.500	<0.500	<0.500	120	NA	NA	NA	<10.0	NA	NA	342.23	22.52	319.71
MW-3	10/20/2006	220 c	NA	<0.50	<0.50	<0.50	<0.50	260	NA	NA	NA	<5.0	NA	NA	342.23	22.01	320.22
MW-3	1/22/2007	290 d,e,f	NA	<2.5 d,f	<2.5 d,f	<2.5 d,f	<2.5 d,f	450 d,f	<2.5 d,f	<2.5 d,f	<2.5 d,f	<100 d,f	NA	NA	342.23	21.95	320.28
MW-3	4/11/2007	<50 g	NA	<0.50	<1.0	<1.0	<1.0	340	NA	NA	NA	<10	NA	NA	342.23	20.31	321.92
MW-3	7/5/2007	120 g,h	NA	<1.0	<2.0	<2.0	<2.0	190	NA	NA	NA	<20	NA	NA	342.23	20.82	321.41
MW-3	10/26/2007	190 g,h	NA	<1.0	<2.0	<2.0	<2.0	340	NA	NA	NA	<20	NA	NA	342.23	21.40	320.83
MW-3	1/22/2008	140 g,h	NA	<1.0	<2.0	<2.0	<2.0	250	<4.0	<4.0	<4.0	<20	NA	NA	342.23	19.42	322.81
MW-3	4/11/2008	120	NA	<1.0	<2.0	<2.0	<2.0	86	NA	NA	NA	<20	NA	NA	342.23	20.90	321.33
MW-3	7/2/2008	150	NA	<0.50	<1.0	<1.0	<1.0	150	NA	NA	NA	<10	NA	NA	342.23	20.10	322.13
MW-3	10/27/2008	240	NA	<0.50	<1.0	<1.0	<1.0	180	NA	NA	NA	<10	NA	NA	342.23	22.18	320.05
MW-4	12/4/2002	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	32.92	NA
MW-4	12/22/2002	<50	<50	<0.50	<0.50	<0.50	<0.50	93	<2.0	<2.0	<2.0	<50	NA	NA	NA	32.20	NA
MW-4	3/28/2003	<50	67	<0.50	<0.50	<0.50	<1.0	2.4	<2.0	<2.0	<2.0	<5.0	NA	NA	343.44	32.07	311.37
MW-4	5/9/2003	<50	NA	<0.50	<0.50	<0.50	<1.0	75	<2.0	<2.0	<2.0	<5.0	NA	NA	343.44	31.35	312.09
MW-4	6/30/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	343.44	31.42	312.02
MW-4	7/8/2003	<50	NA	<0.50	<0.50	<0.50	<1.0	18	<2.0	<2.0	<2.0	<5.0	NA	NA	343.44	31.42	312.02

**TABLE 1**  
**WELL CONCENTRATIONS**  
**Shell-branded Service Station**  
**6750 Santa Rita Road**  
**Pleasanton, 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)	1,2- DCA (ug/L)	EDB (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)
MW-4	7/17/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	343.44	31.20	312.24
MW-4	7/31/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	343.44	31.05	312.39
MW-4	8/29/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	343.44	31.20	312.24
MW-4	9/23/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	343.44	31.15	312.29
MW-4	10/3/2003	<50	NA	<0.50	<0.50	<0.50	<1.0	23	<2.0	<2.0	<2.0	<5.0	NA	NA	343.44	31.10	312.34
MW-4	10/28/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	343.44	31.14	312.30
MW-4	11/24/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	343.44	30.92	312.52
MW-4	12/29/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	343.44	30.82	312.62
MW-4	1/6/2004	<50	NA	<0.50	<0.50	<0.50	<1.0	40	<2.0	<2.0	<2.0	<5.0	NA	NA	343.44	30.24	313.20
MW-4	4/6/2004	<50	NA	<0.50	<0.50	<0.50	<1.0	16	NA	NA	NA	<5.0	NA	NA	343.44	30.10	313.34
MW-4	7/30/2004	<50	NA	<0.50	<0.50	<0.50	<1.0	25	NA	NA	NA	<5.0	NA	NA	343.44	29.75	313.69
MW-4	10/7/2004	<50	NA	<0.50	<0.50	<0.50	<1.0	35	NA	NA	NA	<5.0	NA	NA	343.44	29.79	313.65
MW-4	1/26/2005	<250	NA	<2.5	<2.5	<2.5	<5.0	450	<10	<10	<10	43	NA	NA	343.44	27.60	315.84
MW-4	4/14/2005	<50	NA	<0.50	<0.50	<0.50	<0.50	210	NA	NA	NA	<5.0	NA	NA	343.44	27.40	316.04
MW-4	7/29/2005	<50	NA	<0.50	<0.50	<0.50	<1.0	57	NA	NA	NA	11	NA	NA	343.44	26.68	316.76
MW-4	10/20/2005	<50 a	NA	<0.50	<0.50	<0.50	<1.0	44	NA	NA	NA	<5.0	NA	NA	343.44	27.72	315.72
MW-4	1/27/2006	<50.0	NA	<0.500	<0.500	<0.500	<0.500	98.4	NA	NA	NA	<10.0	NA	NA	343.44	28.90	314.54
MW-4	4/20/2006	<50.0	NA	<0.500	<0.500	<0.500	<0.500	254	NA	NA	NA	<10.0	NA	NA	343.44	22.30	321.14
MW-4	7/12/2006	313	NA	<0.500	<0.500	<0.500	<0.500	358	NA	NA	NA	<10.0	NA	NA	343.44	23.54	319.90
MW-4	10/20/2006	450 c	NA	<0.50	<0.50	<0.50	<0.50	590	NA	NA	NA	<5.0	NA	NA	343.44	22.04	321.40
MW-4	1/22/2007	310	NA	<5.0	<5.0	<5.0	<5.0	410	<5.0	<5.0	<5.0	<200	NA	NA	343.44	22.93	320.51
MW-4	4/11/2007	<50 g	NA	<0.50	<1.0	<1.0	<1.0	350	NA	NA	NA	<10	NA	NA	343.44	21.30	322.14
MW-4	7/5/2007	160 g,h	NA	<1.0	<2.0	<2.0	<2.0	260	NA	NA	NA	<20	NA	NA	343.44	22.00	321.44
MW-4	10/26/2007	150 g,h	NA	<1.0	<2.0	<2.0	<2.0	230	NA	NA	NA	<20	NA	NA	343.44	22.03	321.41
MW-4	1/22/2008	110 g,h	NA	<1.0	<2.0	<2.0	<2.0	180	<4.0	<4.0	<4.0	<20	NA	NA	343.44	20.70	322.74
MW-4	4/11/2008	150	NA	<0.50	<1.0	<1.0	<1.0	150	NA	NA	NA	<10	NA	NA	343.44	22.67	320.77
MW-4	7/2/2008	120	NA	<0.50	<1.0	<1.0	<1.0	120	NA	NA	NA	<10	NA	NA	343.44	20.76	322.68
MW-4	10/27/2008	140	NA	<0.50	<1.0	<1.0	<1.0	93	NA	NA	NA	<10	NA	NA	343.44	23.29	320.15

**TABLE 1**  
**WELL CONCENTRATIONS**  
**Shell-branded Service Station**  
**6750 Santa Rita Road**  
**Pleasanton, 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)	1,2- DCA (ug/L)	EDB (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)
MW-5	2/8/2005	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	340.88	26.83	314.05
MW-5	2/10/2005	<50	NA	<0.50	<0.50	<0.50	<1.0	5.1	<2.0	<2.0	<2.0	<5.0	NA	NA	340.88	27.13	313.75
MW-5	4/14/2005	<50	NA	<0.50	<0.50	<0.50	<0.50	<0.50	NA	NA	NA	<5.0	NA	NA	340.88	26.44	314.44
MW-5	7/29/2005	<50	NA	<0.50	<0.50	<0.50	<1.0	<0.50	NA	NA	NA	<5.0	NA	NA	340.88	26.73	314.15
MW-5	10/20/2005	56	NA	<0.50	<0.50	<0.50	<1.0	<0.50	NA	NA	NA	<5.0	NA	NA	340.88	26.95	313.93
MW-5	1/27/2006	<50.0	NA	<0.500	<0.500	<0.500	<0.500	<0.500	NA	NA	NA	<10.0	NA	NA	340.88	26.15	314.73
MW-5	4/20/2006	<50.0	NA	<0.500	<0.500	<0.500	<0.500	<0.500	NA	NA	NA	<10.0	NA	NA	340.88	22.21	318.67
MW-5	7/12/2006	<50.0	NA	<0.500	<0.500	<0.500	<0.500	<0.500	NA	NA	NA	<10.0	NA	NA	340.88	23.72	317.16
MW-5	10/20/2006	<50	NA	<0.50	<0.50	<0.50	<0.50	<0.50	NA	NA	NA	<5.0	NA	NA	340.88	23.34	317.54
MW-5	1/22/2007	<50	NA	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<20	NA	NA	340.88	22.65	318.23
MW-5	4/11/2007	<50 g	NA	<0.50	<1.0	<1.0	<1.0	<1.0	NA	NA	NA	<10	NA	NA	340.88	23.83	317.05
MW-5	7/5/2007	<50 g	NA	<0.50	<1.0	<1.0	<1.0	<1.0	NA	NA	NA	<10	NA	NA	340.88	21.19	319.69
MW-5	10/26/2007	<50 g	NA	<0.50	<1.0	<1.0	<1.0	2.2	NA	NA	NA	<10	NA	NA	340.88	21.99	318.89
MW-5	1/22/2008	<50 g	NA	<0.50	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<10	NA	NA	340.88	19.80	321.08
MW-5	4/11/2008	<50	NA	<0.50	<1.0	<1.0	<1.0	<1.0	NA	NA	NA	<10	NA	NA	340.88	22.38	318.50
MW-5	7/2/2008	<50	NA	<0.50	<1.0	<1.0	<1.0	<1.0	NA	NA	NA	<10	NA	NA	340.88	19.90	320.98
MW-5	10/27/2008	<50	NA	<0.50	<1.0	<1.0	<1.0	<1.0	NA	NA	NA	<10	NA	NA	340.88	22.50	318.38
MW-6	12/1/2005	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	342.97	27.44	315.53
MW-6	12/7/2005	<50	130	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.020	342.97	26.15	316.82
MW-6	1/27/2006	<50.0	230	<0.500	<0.500	<0.500	<0.500	<0.500	NA	NA	NA	<10.0	NA	NA	342.97	24.95	318.02
MW-6	4/20/2006	<50.0	<50.0 b	<0.500	<0.500	<0.500	<0.500	<0.500	NA	NA	NA	<10.0	NA	NA	342.97	23.51	319.46
MW-6	7/12/2006	<50.0	NA	<0.500	<0.500	<0.500	<0.500	<0.500	NA	NA	NA	<10.0	NA	NA	342.97	23.92	319.05
MW-6	10/20/2006	<50	NA	<0.50	<0.50	<0.50	<0.50	<0.50	NA	NA	NA	<5.0	NA	NA	342.97	24.02	318.95
MW-6	1/22/2007	<50	NA	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<20	NA	NA	342.97	23.54	319.43
MW-6	4/11/2007	<50 g	NA	<0.50	<1.0	<1.0	<1.0	<1.0	NA	NA	NA	<10	NA	NA	342.97	23.06	319.91
MW-6	7/5/2007	<50 g	NA	<0.50	<1.0	<1.0	<1.0	<1.0	NA	NA	NA	<10	NA	NA	342.97	21.85	321.12

**TABLE 1**  
**WELL CONCENTRATIONS**  
**Shell-branded Service Station**  
**6750 Santa Rita Road**  
**Pleasanton, 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)	1,2- DCA (ug/L)	EDB (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)
MW-6	10/26/2007	<50 g	NA	<0.50	<1.0	<1.0	<1.0	<1.0	NA	NA	NA	<10	NA	NA	342.97	22.45	320.52
MW-6	1/22/2008	<50 g	NA	<0.50	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<10	NA	NA	342.97	21.72	321.25
MW-6	4/11/2008	<50	NA	<0.50	<1.0	<1.0	<1.0	<1.0	NA	NA	NA	<10	NA	NA	342.97	23.10	319.87
MW-6	7/2/2008	<50	NA	<0.50	<1.0	<1.0	<1.0	<1.0	NA	NA	NA	<10	NA	NA	342.97	21.62	321.35
<b>MW-6</b>	<b>10/27/2008</b>	<b>&lt;50</b>	<b>NA</b>	<b>&lt;0.50</b>	<b>&lt;1.0</b>	<b>&lt;1.0</b>	<b>&lt;1.0</b>	<b>&lt;1.0</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>&lt;10</b>	<b>NA</b>	<b>NA</b>	<b>342.97</b>	<b>23.70</b>	<b>319.27</b>
MW-7	12/1/2005	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	341.21	27.48	313.73
MW-7	12/7/2005	<50	190	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.020	341.21	27.29	313.92
MW-7	1/27/2006	<50.0	<100	<0.500	<0.500	<0.500	<0.500	<0.500	NA	NA	NA	<10.0	NA	NA	341.21	25.10	316.11
MW-7	4/20/2006	<50.0	<48.7 b	<0.500	<0.500	<0.500	<0.500	<0.500	NA	NA	NA	<10.0	NA	NA	341.21	22.71	318.50
MW-7	7/12/2006	<50.0	NA	<0.500	<0.500	<0.500	<0.500	<0.500	NA	NA	NA	<10.0	NA	NA	341.21	23.40	317.81
MW-7	10/20/2006	<50	NA	<0.50	<0.50	<0.50	<0.50	<0.50	NA	NA	NA	<5.0	NA	NA	341.21	23.63	317.58
MW-7	1/22/2007	<50	NA	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<20	NA	NA	341.21	22.68	318.53
MW-7	4/11/2007	<50 g	NA	<0.50	<1.0	<1.0	<1.0	<1.0	NA	NA	NA	<10	NA	NA	341.21	24.51	316.70
MW-7	7/5/2007	<50 g	NA	<0.50	<1.0	<1.0	<1.0	<1.0	NA	NA	NA	<10	NA	NA	341.21	21.40	319.81
MW-7	10/26/2007	<50 g	NA	<0.50	<1.0	<1.0	<1.0	<1.0	NA	NA	NA	<10	NA	NA	341.21	21.72	319.49
MW-7	1/22/2008	<50 g	NA	<0.50	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<10	NA	NA	341.21	20.36	320.85
MW-7	4/11/2008	<50	NA	<0.50	<1.0	<1.0	<1.0	<1.0	NA	NA	NA	<10	NA	NA	341.21	21.83	319.38
MW-7	7/2/2008	<50	NA	<0.50	<1.0	<1.0	<1.0	<1.0	NA	NA	NA	<10	NA	NA	341.21	19.94	321.27
<b>MW-7</b>	<b>10/27/2008</b>	<b>&lt;50</b>	<b>NA</b>	<b>&lt;0.50</b>	<b>&lt;1.0</b>	<b>&lt;1.0</b>	<b>&lt;1.0</b>	<b>&lt;1.0</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>&lt;10</b>	<b>NA</b>	<b>NA</b>	<b>341.21</b>	<b>22.90</b>	<b>318.31</b>

**TABLE 1  
WELL CONCENTRATIONS  
Shell-branded Service Station  
6750 Santa Rita Road  
Pleasanton, 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)	1,2- DCA (ug/L)	EDB (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (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 butyl alcohol or Tertiary butanol, analyzed by EPA Method 8260B

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

EDB = 1,2-Dibromoethane or Ethylene dibromide, analyzed by EPA Method 504.1

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

**TABLE 1**  
**WELL CONCENTRATIONS**  
**Shell-branded Service Station**  
**6750 Santa Rita Road**  
**Pleasanton, 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)	1,2- DCA (ug/L)	EDB (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)
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Notes:

a = The concentration reported reflects individual or discrete unidentified peaks not matching a typical fuel pattern.

b = Diesel with Silica gel clean-up.

c = The result for this hydrocarbon is elevated due to the presence of single analyte peak(s) in the quantitation range.

d = The sample, as received, was not preserved in accordance to the referenced analytical method.

e = Hydrocarbon result partly due to individual peak(s) in quantitation range.

f = pH=5

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

h = 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.

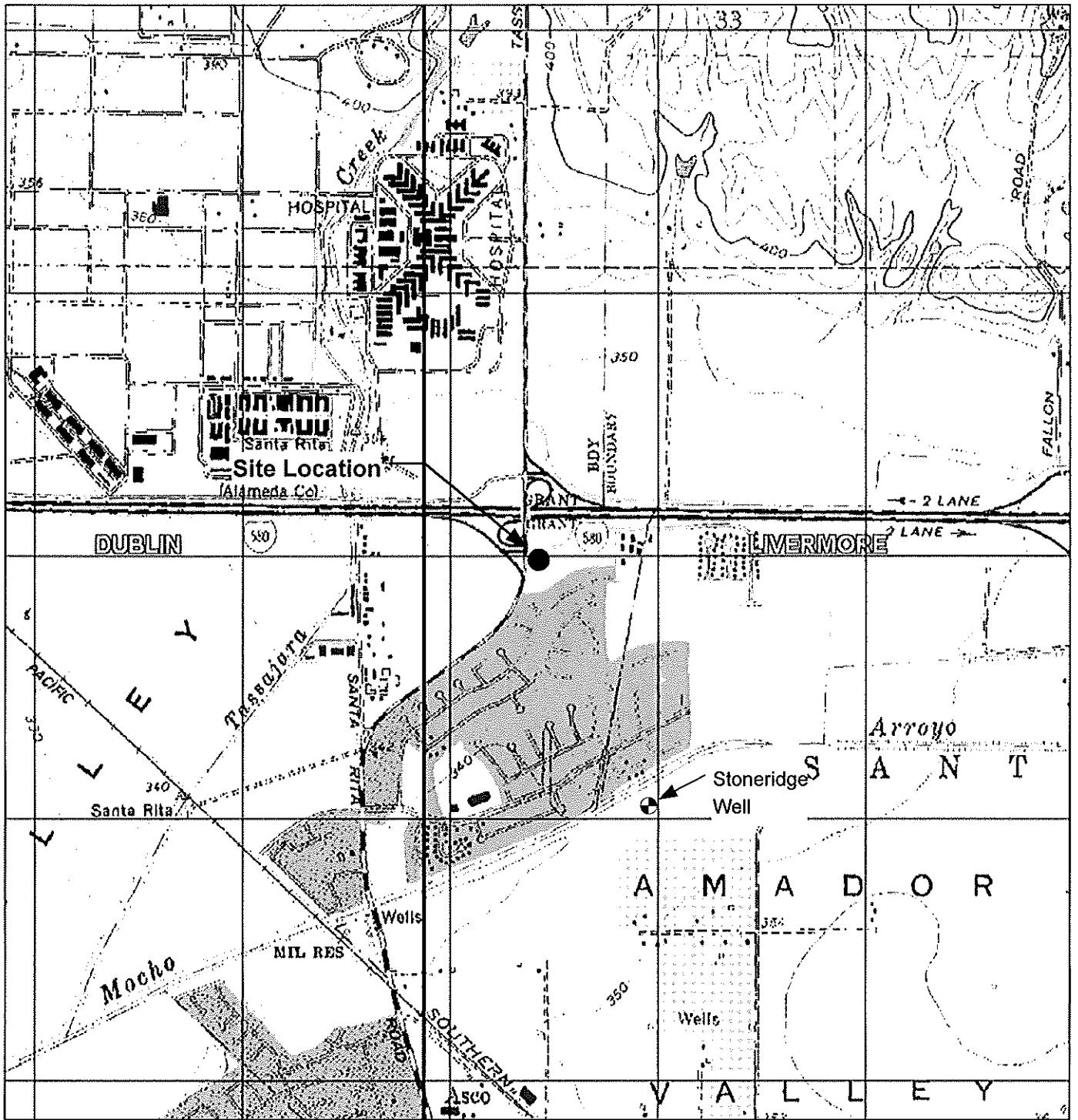
Site surveyed November 22, 2002 by Mid Coast Engineers.

MW-5 surveyed January 31, 2005 by Mid Coast Engineers of Watsonville, CA.

Wells MW-6 and MW-7 surveyed December 19, 2005 by Mid Coast Engineers.

## FIGURES

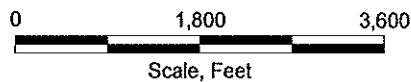




GENERAL NOTES:  
 Base Map from: DeLorme Yarmouth, ME 04096  
 Source Data: USGS



QUADRANGLE LOCATION



Scale, Feet

FIGURE 1  
 SITE LOCATION MAP  
 SHELL-BRANDED SERVICE STATION  
 6750 Santa Rita Road  
 Pleasanton, California

PROJECT NO. SCA6750S1	DRAWN BY VF 12/04/03
FILE NO.	PREPARED BY VF
REVISION NO.	REVIEWED BY



PROJECT NUMBER  
SCA6750S1

APPROVED BY

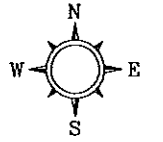
CHECKED BY

DRAWN BY  
12/1/2008  
J.F.F.

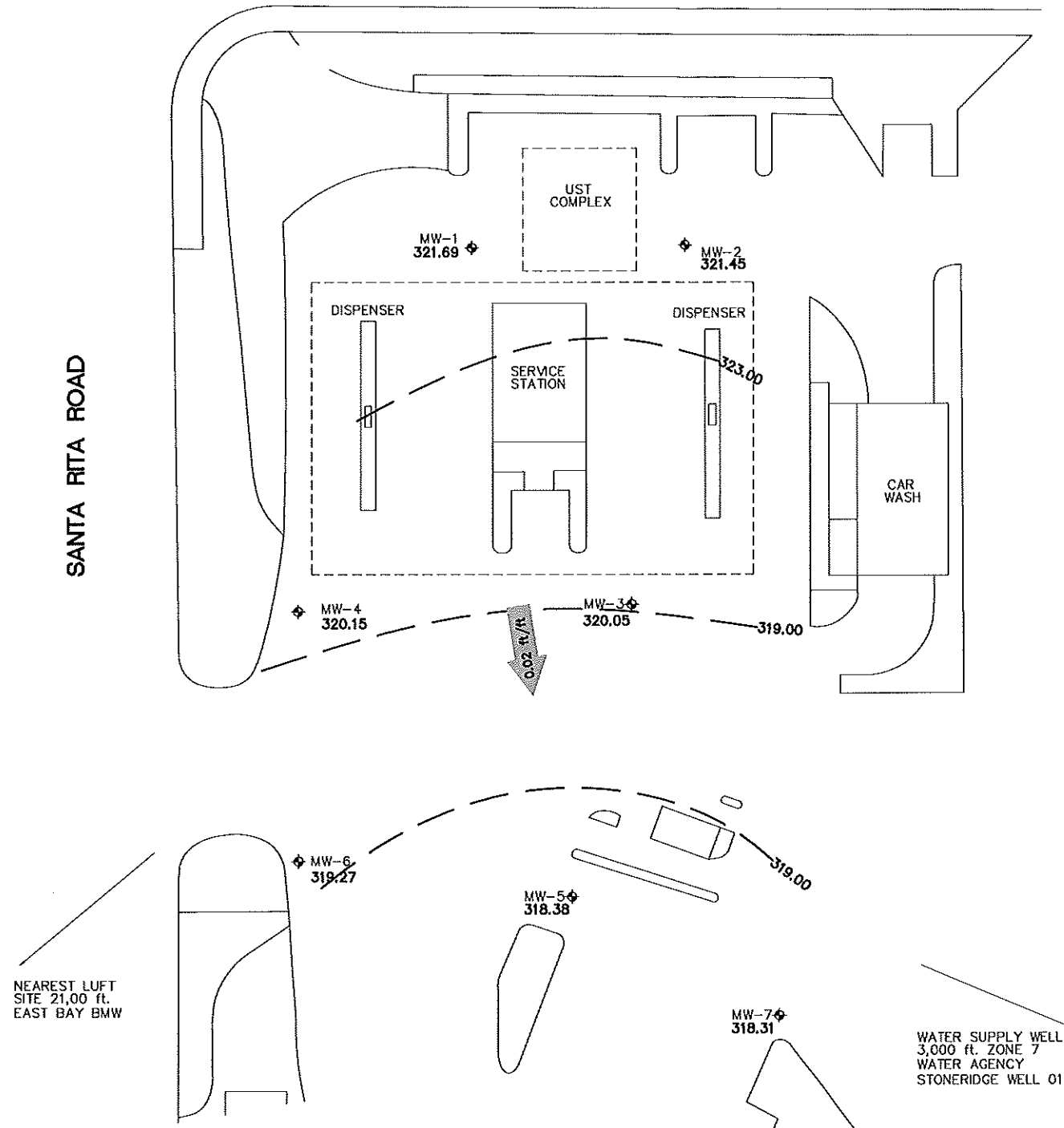
SCALE IN FEET  
0 20 40

PIMLICO DRIVE

SANTA RITA ROAD



- LEGEND**
- MW-1 GROUNDWATER MONITORING WELL LOCATION AND DESIGNATION
  - 324.08 GROUNDWATER ELEVATION IN FEET ABOVE MEAN SEA LEVEL (Ft/MSL)
  - 322.00 GROUNDWATER CONTOUR IN FEET ABOVE MEAN SEA LEVEL (Ft/MSL)  
CONTOUR INTERVAL=1.00 FEET
  - APPROXIMATE GROUNDWATER GRADIENT DIRECTION (ft/ft)



**DELTA CONSULTANTS**

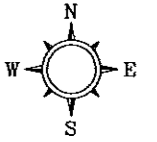
SHELL OIL PRODUCTS US  
SHELL-BRANDED SERVICE STATION  
PLEASANTON, CALIFORNIA

**FIGURE 2**

**GROUNDWATER ELEVATION CONTOUR MAP**  
10/27/2008  
6750 SANTA RITA ROAD  
PLEASANTON, CALIFORNIA

PROJECT NUMBER SCA6750S1  
 DRAWN BY J.F.F. 12/1/2008  
 CHECKED BY  
 APPROVED BY

PIMLICO DRIVE



MW-1				
DATE	TPH-g (µg/L)	BENZENE (µg/L)	MTBE (µg/L)	TBA (µg/L)
10/27/08	ND<50	ND<0.50	3.8	ND<10

MW-2				
DATE	TPH-g (µg/L)	BENZENE (µg/L)	MTBE (µg/L)	TBA (µg/L)
10/27/08	660	ND<2.5	440	ND<50

**LEGEND**

MW-1 GROUNDWATER MONITORING WELL LOCATION AND DESIGNATION

TPH-g TOTAL PETROLEUM HYDROCARBONS AS GASOLINE

MTBE METHYL TERT-BUTYL ETHER

TBA TERT-BUTYL ALCOHOL

µg/L MICROGRAMS PER LITER

ND< NOT DETECTED ABOVE LIMIT NOTED

SANTA RITA ROAD

MW-4				
DATE	TPH-g (µg/L)	BENZENE (µg/L)	MTBE (µg/L)	TBA (µg/L)
10/27/08	140	ND<0.50	93	ND<10

MW-3				
DATE	TPH-g (µg/L)	BENZENE (µg/L)	MTBE (µg/L)	TBA (µg/L)
10/27/08	240	ND<0.50	180	ND<10

MW-5				
DATE	TPH-g (µg/L)	BENZENE (µg/L)	MTBE (µg/L)	TBA (µg/L)
10/27/08	ND<50	ND<0.50	ND<1.0	ND<10

NEAREST LUFT SITE 21,00 ft. EAST BAY BMW

WATER SUPPLY WELL 3,000 ft. ZONE 7 WATER AGENCY STONERIDGE WELL 01

MW-6				
DATE	TPH-g (µg/L)	BENZENE (µg/L)	MTBE (µg/L)	TBA (µg/L)
10/27/08	ND<50	ND<0.50	ND<1.0	ND<10

MW-7				
DATE	TPH-g (µg/L)	BENZENE (µg/L)	MTBE (µg/L)	TBA (µg/L)
10/27/08	ND<50	ND<0.50	ND<1.0	ND<10

0 20 40  
SCALE IN FEET



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

**FIGURE 3**  
 HYDROCARBON DISTRIBUTION IN  
 GROUNDWATER MAP  
 10/27/2008  
 6750 SANTA RITA ROAD  
 PLEASANTON, CALIFORNIA

**APPENDIX A**

**FIELD DATA SHEETS**





## WELL GAUGING DATA

Project # 081027-107 Date 10/27/08 Client Shell

Site 6750 Santa Rita Rd Pleasanton CA.

Well ID	Time	Well Size (in.)	Sheen / Odor	Depth to Immiscible Liquid (ft.)	Thickness of Immiscible Liquid (ft.)	Volume of Immiscibles Removed (ml)	Depth to water (ft.)	Depth to well bottom (ft.)	Survey Point: TOB or <del>TOE</del>	Notes
MW-1	0855	2					21.79	41.60	↓	
MW-2	0906	2				21.41	41.42			
MW-3	0903	2				22.18	43.85			
MW-4	0900	2				23.29	43.91			
MW-5	0852	2				22.50	32.78			
MW-6	0848	2				23.70	28.64			
MW-7	0844	2				22.90	28.84			
<del>MW-8</del>										





### SHELL WELL MONITORING DATA SHEET

BTS #: 081027-101	Site: 97464711
Sampler: JD	Date: 10/27/06
Well I.D.: MW-3	Well Diameter: (2) 3 4 6 8 _____
Total Well Depth (TD): 43.85	Depth to Water (DTW): 22.18
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVT) Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 22.51	

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: _____
---	---	--

3.5 (Gals.) X 3 = 10.5 Gals. 1 Case Volume      Specified Volumes      Calculated Volume	<table style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: left;">Well Diameter</th> <th style="text-align: left;">Multiplier</th> <th style="text-align: left;">Well Diameter</th> <th style="text-align: left;">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 µS)	Turbidity (NTUs)	Gals. Removed	Observations
1252	69.9	7.58	3561	2000	3.5	
1255	69.4	7.56	3540	887	7	
1258	70.3	7.52	3574	428	10.5	

Did well dewater?    Yes     No    Gallons actually evacuated: 10.5

Sampling Date: 10/27/06    Sampling Time: 1304    Depth to Water: 24.20

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

Analyzed for: ~~TPH-G BTEX MTBE~~ TPH-D    Other: TBA

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 #: 081027-101	Site: 97464711
Sampler: JD	Date: 10/27/08
Well I.D.: MW-4	Well Diameter: (2) 3 4 6 8
Total Well Depth (TD): 43.91	Depth to Water (DTW): 23.29
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]: 27.41	

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

Water:  Peristaltic  Extraction Pump  Other \_\_\_\_\_

Sampling Method:  Bailer  Disposable Bailer  Extraction Port  Dedicated Tubing

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

3.3 (Gals.) X 3 = 9.9 Gals.		
1 Case Volume	Specified Volumes	Calculated Volume

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

Time	Temp (°F)	pH	Cond. (mS or µS)	Turbidity (NTUs)	Gals. Removed	Observations
1150	65.9	7.83	1791	>1000	3.3	
1152	66.3	7.71	1796	523	6.6	
1154	66.4	7.63	<del>166</del> 1850	330	9.9	

Did well dewater? Yes   NO Gallons actually evacuated: \_\_\_\_\_

Sampling Date: 10/27/08 Sampling Time: 1200 Depth to Water: 25.50

Sample I.D.: MW-4 Laboratory: STL Other: Calscience

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

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 #: 081027-801	Site: 97464711
Sampler: 80	Date: 10/27/08
Well I.D.: MW-5	Well Diameter: ② 3 4 6 8
Total Well Depth (TD): 32.76	Depth to Water (DTW): 22.50
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: EVO Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 24.56	

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: \_\_\_\_\_

$\frac{1.6}{\text{I Case Volume (Gals.)}} \times \frac{3}{\text{Specified Volumes}} = \frac{4.8}{\text{Calculated Volume}} \text{ Gals.}$	<table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <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 µS)	Turbidity (NTUs)	Gals. Removed	Observations
1038	65.1	7.22	3638	500	1.6	drawn
1043	65.9	7.12	3768	642	3.2	↓
1048	66.8	7.01	3754	>1000	4.8	

Did well dewater?    Yes     No      Gallons actually evacuated: 4.8

Sampling Date: 10/27/08    Sampling Time: ~~1045~~ 1050    Depth to Water: 24.56

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

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

EB I.D. (if applicable): @ \_\_\_\_\_    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 #: 081027-809	Site: 97464711
Sampler: SD	Date: 10/27/08
Well I.D.: MW-6	Well Diameter: ② 3 4 6 8
Total Well Depth (TD): 28.64	Depth to Water (DTW): 23.70
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVD Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 24.69	

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

$0.8 \text{ (Gals.)} \times 3 = 2.4 \text{ Gals.}$ I Case Volume      Specified Volumes      Calculated Volume	<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 $\mu$ S)	Turbidity (NTUs)	Gals. Removed	Observations
1007	64.4	7.04	2403	208	0.8	
1009	66.2	6.97	2431	554	1.6	
1011	66.5	6.93	2433	845	2.4	

Did well dewater?    Yes     No       Gallons actually evacuated: 2.4

Sampling Date: 10/27/08    Sampling Time: 1020    Depth to Water: 24.69

Sample I.D.: MW-6    Laboratory: STL    Other: Calscience

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

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 WELLHEAD REPAIR FORM

## (FOR REPAIR TECHNICIAN)

Site Address 6750 Santa Rita Rd. Date 8-15-08  
 Job Number 080815-EC3 Technician EC Page 1 of 1

Inspection Point (Well ID or description of location)	Well Inspected, Cleaned, Labeled - No Further Corrective Action Required	Replaced Cap	Replaced Lock	Replaced Lid Seal	Check indicates deficiency										Well Not Inspected (explain in notes)	All Repairs Completed	Remaining Deficiencies Logged onto BLAINE Repair Order	Remaining Deficiencies Logged onto Notice of Deficient Condition - BLAINE Unable to Repair	
					Casing	Annular Seal	Tabs / Bolts	Box Structure	Apron	Trip Hazard	Below Grade	Not Securable by Design (12" diameter or less)	Lid not marked with words "MONITORING WELL"	Other Deficiency					Not Securable by Design (greater than 12" diameter)
MW-1				X			X												
	Notes: <u>cleaned</u>																		
	Well box type / size: <u>12" EMCO</u>									Materials used: <u>RS, ZRT, ZB</u>									
MW-2				X			X												
	Notes: <u>cleaned</u>																		
	Well box type / size: <u>8" EMCO</u>									Materials used: <u>RS, ZRT, ZB</u>									
MW-3				X			X												
	Notes: <u>cleaned</u>																		
	Well box type / size: <u>12" EMCO</u>									Materials used: <u>RS, ZRT, ZB</u>									
MW-4				X			X												
	Notes: <u>cleaned</u>																		
	Well box type / size: <u>12" EMCO</u>									Materials used: <u>RS, ZRT, ZB</u>									
MW-5				X			X												
	Notes: <u>cleaned</u>																		
	Well box type / size: <u>12" EMCO</u>									Materials used: <u>RS, ZRT, ZB</u>									
MW-6				X			X												
	Notes: <u>cleaned</u>																		
	Well box type / size: <u>12" EMCO</u>									Materials used: <u>RS, ZRT, ZB</u>									
MW-7				X			X												
	Notes: <u>cleaned</u>																		
	Well box type / size: <u>12" EMCO</u>									Materials used: <u>RS, ZRT, ZB</u>									

# SHELL SITE INSPECTION CHECKLIST

Client Shell Date 8-15-08

Site Address 6750 Santa Rita Rd.

Job Number 080815-EC3 Technician EC

Site Status Shell Branded Station Vacant Lot Other \_\_\_\_\_

- Inspected / Labeled / Cleaned - all wells on Scope Of Work
- Inspected / Cleaned Components - all other identifiable wells  (N/A)
- Inspected site for site investigation & site remediation related trip hazards
- Completed all outstanding *BLAINE Wellhead Repair Order(s)*  (N/A)
- Completed *Shell Wellhead Repair Form(s)*  (N/A)
- Inspected treatment / remediation system compound for security, cleanliness and appearance  (N/A)
- Inspected vacant lot for signs of habitation, hazardous materials or terrain, overgrown vegetation and security  (N/A)
- Visually inspected site drums for condition and proper labeling  N/A
- Unresolved deficiencies identified - "*Notice of Deficient Condition*" form(s) completed  (N/A)

**Notes**

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PROJECT MANAGER ONLY

<b>Checklist Reviewed</b>	 _____ Initial/Date	<b>Notes</b>
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## **APPENDIX B**

### **FIELD PROCEDURES**



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**BLAINE**  
TECH SERVICES INC.

---

GROUNDWATER SAMPLING SPECIALISTS  
SINCE 1985

November 18, 2008

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

Fourth Quarter 2008 Groundwater Monitoring at  
Shell-branded Service Station  
6750 Santa Rita Road  
Pleasanton, CA

Monitoring performed on October 27, 2008

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Groundwater Monitoring Report **081027-JO-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/jb

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

cc: Rich Garlow  
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

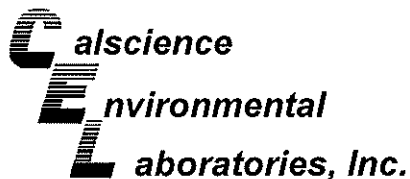
All readings are obtained with either Corning or Myron-L meters (e.g. Corning ORP-65 or a Myron-L Ultrameter GP). The meter is cleaned between wells as described above. The meter is calibrated at the start of each day according to the instruction manual.

## 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**



November 10, 2008

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

Subject: **Calscience Work Order No.: 08-10-2502**  
Client Reference: **6750 Santa Rita Rd., Pleasanton, CA**

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 10/29/2008 and analyzed in accordance with the attached chain-of-custody.

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

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

Sincerely,

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

Calscience Environmental  
Laboratories, Inc.  
Jessie Kim  
Project Manager

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



## Analytical Report



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

Date Received: 10/29/08  
 Work Order No: 08-10-2502  
 Preparation: EPA 5030B  
 Method: LUFT GC/MS / EPA 8260B  
 Units: ug/L

Project: 6750 Santa Rita Rd., Pleasanton, CA

Page 1 of 4

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-1	08-10-2502-1-A	10/27/08 11:25	Aqueous	GC/MS PP	11/06/08	11/06/08 20:03	081106L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.50	1		o-Xylene	ND	1.0	1	
Ethylbenzene	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	3.8	1.0	1	
Toluene	ND	1.0	1		Tert-Butyl Alcohol (TBA)	ND	10	1	
p/m-Xylene	ND	1.0	1		TPPH	ND	50	1	
<b>Surrogates:</b>	<b>REC (%)</b>	<b>Control Limits</b>		<b>Qual</b>	<b>Surrogates:</b>	<b>REC (%)</b>	<b>Control Limits</b>		<b>Qual</b>
Dibromofluoromethane	107	74-140			1,2-Dichloroethane-d4	115	74-146		
Toluene-d8	102	88-112			Toluene-d8-TPPH	102	88-112		
1,4-Bromofluorobenzene	98	74-110							

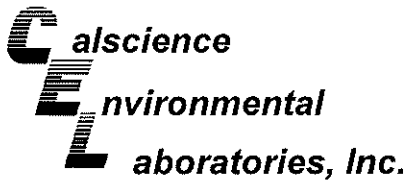
Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-2	08-10-2502-2-A	10/27/08 13:35	Aqueous	GC/MS PP	11/06/08	11/06/08 16:14	081106L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	2.5	5		o-Xylene	ND	5.0	5	
Ethylbenzene	ND	5.0	5		Methyl-t-Butyl Ether (MTBE)	440	5.0	5	
Toluene	ND	5.0	5		Tert-Butyl Alcohol (TBA)	ND	50	5	
p/m-Xylene	ND	5.0	5		TPPH	660	250	5	
<b>Surrogates:</b>	<b>REC (%)</b>	<b>Control Limits</b>		<b>Qual</b>	<b>Surrogates:</b>	<b>REC (%)</b>	<b>Control Limits</b>		<b>Qual</b>
Dibromofluoromethane	106	74-140			1,2-Dichloroethane-d4	110	74-146		
Toluene-d8	100	88-112			Toluene-d8-TPPH	100	88-112		
1,4-Bromofluorobenzene	98	74-110							

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-3	08-10-2502-3-A	10/27/08 13:04	Aqueous	GC/MS PP	11/06/08	11/06/08 20:29	081106L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.50	1		o-Xylene	ND	1.0	1	
Ethylbenzene	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	180	1.0	1	
Toluene	ND	1.0	1		Tert-Butyl Alcohol (TBA)	ND	10	1	
p/m-Xylene	ND	1.0	1		TPPH	240	50	1	
<b>Surrogates:</b>	<b>REC (%)</b>	<b>Control Limits</b>		<b>Qual</b>	<b>Surrogates:</b>	<b>REC (%)</b>	<b>Control Limits</b>		<b>Qual</b>
Dibromofluoromethane	105	74-140			1,2-Dichloroethane-d4	114	74-146		
Toluene-d8	101	88-112			Toluene-d8-TPPH	101	88-112		
1,4-Bromofluorobenzene	98	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: 10/29/08  
Work Order No: 08-10-2502  
Preparation: EPA 5030B  
Method: LUFT GC/MS / EPA 8260B  
Units: ug/L

Project: 6750 Santa Rita Rd., Pleasanton, CA

Page 2 of 4

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-4	08-10-2502-4-A	10/27/08 12:00	Aqueous	GC/MS PP	11/06/08	11/06/08 20:54	081106L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.50	1		o-Xylene	ND	1.0	1	
Ethylbenzene	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	93	1.0	1	
Toluene	ND	1.0	1		Tert-Butyl Alcohol (TBA)	ND	10	1	
p/m-Xylene	ND	1.0	1		TPPH	140	50	1	
<b>Surrogates:</b>	<b>REC (%)</b>	<b>Control Limits</b>		<b>Qual</b>	<b>Surrogates:</b>	<b>REC (%)</b>	<b>Control Limits</b>		<b>Qual</b>
Dibromofluoromethane	108	74-140			1,2-Dichloroethane-d4	115	74-146		
Toluene-d8	101	88-112			Toluene-d8-TPPH	101	88-112		
1,4-Bromofluorobenzene	96	74-110							

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-5	08-10-2502-5-A	10/27/08 10:50	Aqueous	GC/MS W	11/06/08	11/07/08 10:26	081106L02

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.50	1		o-Xylene	ND	1.0	1	
Ethylbenzene	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	
Toluene	ND	1.0	1		Tert-Butyl Alcohol (TBA)	ND	10	1	
p/m-Xylene	ND	1.0	1		TPPH	ND	50	1	
<b>Surrogates:</b>	<b>REC (%)</b>	<b>Control Limits</b>		<b>Qual</b>	<b>Surrogates:</b>	<b>REC (%)</b>	<b>Control Limits</b>		<b>Qual</b>
Dibromofluoromethane	103	74-140			1,2-Dichloroethane-d4	102	74-146		
Toluene-d8	97	88-112			Toluene-d8-TPPH	93	88-112		
1,4-Bromofluorobenzene	95	74-110							

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-6	08-10-2502-6-B	10/27/08 10:20	Aqueous	GC/MS W	11/06/08	11/07/08 10:56	081106L02

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.50	1		o-Xylene	ND	1.0	1	
Ethylbenzene	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	
Toluene	ND	1.0	1		Tert-Butyl Alcohol (TBA)	ND	10	1	
p/m-Xylene	ND	1.0	1		TPPH	ND	50	1	
<b>Surrogates:</b>	<b>REC (%)</b>	<b>Control Limits</b>		<b>Qual</b>	<b>Surrogates:</b>	<b>REC (%)</b>	<b>Control Limits</b>		<b>Qual</b>
Dibromofluoromethane	106	74-140			1,2-Dichloroethane-d4	103	74-146		
Toluene-d8	96	88-112			Toluene-d8-TPPH	93	88-112		
1,4-Bromofluorobenzene	98	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: 10/29/08  
Work Order No: 08-10-2502  
Preparation: EPA 5030B  
Method: LUFT GC/MS / EPA 8260B  
Units: ug/L

Project: 6750 Santa Rita Rd., Pleasanton, CA

Page 3 of 4

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-7	08-10-2502-7-B	10/27/08 09:45	Aqueous	GC/MS U	11/07/08	11/07/08 14:16	081107L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.50	1		o-Xylene	ND	1.0	1	
Ethylbenzene	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	
Toluene	ND	1.0	1		Tert-Butyl Alcohol (TBA)	ND	10	1	
p/m-Xylene	ND	1.0	1		TPPH	ND	50	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	111	74-140			1,2-Dichloroethane-d4	125	74-146		
Toluene-d8	99	88-112			Toluene-d8-TPPH	100	88-112		
1,4-Bromofluorobenzene	85	74-110							

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-12-767-319	N/A	Aqueous	GC/MS PP	11/06/08	11/06/08 14:07	081106L01

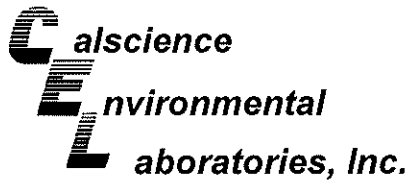
Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.50	1		o-Xylene	ND	1.0	1	
Ethylbenzene	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	
Toluene	ND	1.0	1		Tert-Butyl Alcohol (TBA)	ND	10	1	
p/m-Xylene	ND	1.0	1		TPPH	ND	50	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	102	74-140			1,2-Dichloroethane-d4	104	74-146		
Toluene-d8	100	88-112			Toluene-d8-TPPH	100	88-112		
1,4-Bromofluorobenzene	96	74-110							

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-12-767-329	N/A	Aqueous	GC/MS W	11/06/08	11/07/08 03:53	081106L02

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.50	1		o-Xylene	ND	1.0	1	
Ethylbenzene	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	
Toluene	ND	1.0	1		Tert-Butyl Alcohol (TBA)	ND	10	1	
p/m-Xylene	ND	1.0	1		TPPH	ND	50	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	103	74-140			1,2-Dichloroethane-d4	106	74-146		
Toluene-d8	98	88-112			Toluene-d8-TPPH	94	88-112		
1,4-Bromofluorobenzene	95	74-110							

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





Analytical Report



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

Date Received: 10/29/08  
Work Order No: 08-10-2502  
Preparation: EPA 5030B  
Method: LUFT GC/MS / EPA 8260B  
Units: ug/L

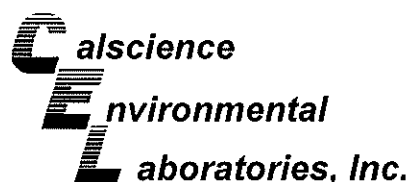
Project: 6750 Santa Rita Rd., Pleasanton, CA

Page 4 of 4

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-12-767-330	N/A	Aqueous	GC/MS U	11/07/08	11/07/08 13:46	081107L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.50	1		o-Xylene	ND	1.0	1	
Ethylbenzene	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	
Toluene	ND	1.0	1		Tert-Butyl Alcohol (TBA)	ND	10	1	
p/m-Xylene	ND	1.0	1		TPPH	ND	50	1	
<b>Surrogates:</b>	<b>REC (%)</b>	<b>Control Limits</b>		<b>Qual</b>	<b>Surrogates:</b>	<b>REC (%)</b>	<b>Control Limits</b>		<b>Qual</b>
Dibromofluoromethane	115	74-140			1,2-Dichloroethane-d4	122	74-146		
Toluene-d8	96	88-112			Toluene-d8-TPPH	96	88-112		
1,4-Bromofluorobenzene	84	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

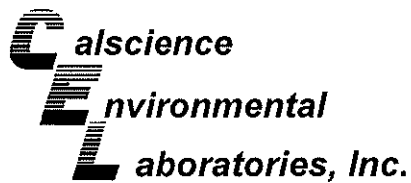
Date Received: 10/29/08  
Work Order No: 08-10-2502  
Preparation: EPA 5030B  
Method: LUFT GC/MS / EPA 8260B

Project 6750 Santa Rita Rd., Pleasanton, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
08-10-2503-6	Aqueous	GC/MS PP	11/06/08	11/06/08	081106S01

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	102	104	88-118	2	0-7	
Carbon Tetrachloride	109	111	67-145	2	0-11	
Chlorobenzene	97	99	88-118	1	0-7	
1,2-Dibromoethane	103	105	70-130	2	0-30	
1,2-Dichlorobenzene	88	94	86-116	7	0-8	
1,1-Dichloroethene	109	111	70-130	1	0-25	
Ethylbenzene	101	103	70-130	2	0-30	
Toluene	101	103	87-123	2	0-8	
Trichloroethene	99	101	79-127	3	0-10	
Vinyl Chloride	124	129	69-129	4	0-13	
Methyl-t-Butyl Ether (MTBE)	109	110	71-131	1	0-13	
Tert-Butyl Alcohol (TBA)	98	101	36-168	3	0-45	
Diisopropyl Ether (DIPE)	108	108	81-123	0	0-9	
Ethyl-t-Butyl Ether (ETBE)	110	111	72-126	1	0-12	
Tert-Amyl-Methyl Ether (TAME)	106	109	72-126	2	0-12	
Ethanol	106	100	53-149	6	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

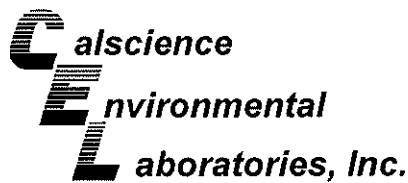
Date Received: 10/29/08  
Work Order No: 08-10-2502  
Preparation: EPA 5030B  
Method: LUFT GC/MS / EPA 8260B

Project 6750 Santa Rita Rd., Pleasanton, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
08-10-2607-3	Aqueous	GC/MS W	11/06/08	11/07/08	081106S02

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	89	81	88-118	6	0-7	3
Carbon Tetrachloride	82	80	67-145	3	0-11	
Chlorobenzene	94	88	88-118	6	0-7	
1,2-Dibromoethane	100	92	70-130	9	0-30	
1,2-Dichlorobenzene	96	91	86-116	5	0-8	
1,1-Dichloroethene	80	70	70-130	13	0-25	
Ethylbenzene	94	84	70-130	7	0-30	
Toluene	87	89	87-123	3	0-8	
Trichloroethene	86	79	79-127	8	0-10	
Vinyl Chloride	104	87	69-129	18	0-13	4
Methyl-t-Butyl Ether (MTBE)	106	99	71-131	6	0-13	
Tert-Butyl Alcohol (TBA)	90	81	36-168	11	0-45	
Diisopropyl Ether (DIPE)	93	85	81-123	9	0-9	
Ethyl-t-Butyl Ether (ETBE)	92	86	72-126	7	0-12	
Tert-Amyl-Methyl Ether (TAME)	95	93	72-126	1	0-12	
Ethanol	72	70	53-149	2	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

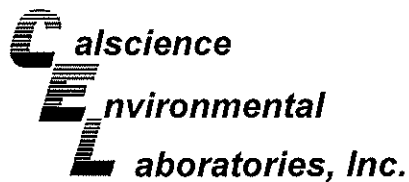
Date Received: 10/29/08  
Work Order No: 08-10-2502  
Preparation: EPA 5030B  
Method: LUFT GC/MS / EPA 8260B

Project 6750 Santa Rita Rd., Pleasanton, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
MW-7	Aqueous	GC/MS U	11/07/08	11/07/08	081107S01

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	101	100	88-118	1	0-7	
Carbon Tetrachloride	105	103	67-145	2	0-11	
Chlorobenzene	104	103	88-118	1	0-7	
1,2-Dibromoethane	109	106	70-130	3	0-30	
1,2-Dichlorobenzene	102	103	86-116	1	0-8	
1,1-Dichloroethene	102	103	70-130	0	0-25	
Ethylbenzene	112	110	70-130	1	0-30	
Toluene	107	106	87-123	1	0-8	
Trichloroethene	101	101	79-127	0	0-10	
Vinyl Chloride	114	119	69-129	4	0-13	
Methyl-t-Butyl Ether (MTBE)	100	102	71-131	2	0-13	
Tert-Butyl Alcohol (TBA)	94	100	36-168	7	0-45	
Diisopropyl Ether (DIPE)	111	111	81-123	0	0-9	
Ethyl-t-Butyl Ether (ETBE)	105	107	72-126	3	0-12	
Tert-Amyl-Methyl Ether (TAME)	109	111	72-126	2	0-12	
Ethanol	105	117	53-149	11	0-31	

RPD - Relative Percent Difference, CL - Control Limit



## Quality Control - LCS/LCS Duplicate



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

Date Received: N/A  
Work Order No: 08-10-2502  
Preparation: EPA 5030B  
Method: LUFT GC/MS / EPA 8260B

Project: 6750 Santa Rita Rd., Pleasanton, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number		
099-12-767-319	Aqueous	GC/MS PP	11/06/08	11/06/08	081106L01		
Parameter	LCS %REC	LCSD %REC	%REC CL	ME CL	RPD	RPD CL	Qualifiers
Benzene	100	98	84-120	78-126	2	0-8	
Carbon Tetrachloride	107	104	63-147	49-161	3	0-10	
Chlorobenzene	97	95	89-119	84-124	1	0-7	
1,2-Dibromoethane	102	96	80-120	73-127	6	0-20	
1,2-Dichlorobenzene	90	88	89-119	84-124	2	0-9	ME
1,1-Dichloroethene	110	105	77-125	69-133	4	0-16	
Ethylbenzene	104	102	80-120	73-127	2	0-20	
Toluene	100	98	83-125	76-132	2	0-9	
Trichloroethene	101	99	89-119	84-124	2	0-8	
Vinyl Chloride	124	124	63-135	51-147	0	0-13	
Methyl-t-Butyl Ether (MTBE)	102	96	82-118	76-124	6	0-13	
Tert-Butyl Alcohol (TBA)	101	86	46-154	28-172	15	0-32	
Diisopropyl Ether (DIPE)	101	98	81-123	74-130	3	0-11	
Ethyl-t-Butyl Ether (ETBE)	102	98	74-122	66-130	5	0-12	
Tert-Amyl-Methyl Ether (TAME)	100	96	76-124	68-132	4	0-10	
Ethanol	102	98	60-138	47-151	4	0-32	
TPPH	108	103	65-135	53-147	5	0-30	

Total number of LCS compounds : 17

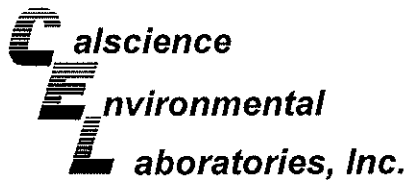
Total number of ME compounds : 1

Total number of ME compounds allowed : 1

LCS ME CL validation result : Pass

RPD - Relative Percent Difference , CL - Control Limit





## Quality Control - LCS/LCS Duplicate



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

Date Received: N/A  
Work Order No: 08-10-2502  
Preparation: EPA 5030B  
Method: LUFT GC/MS / EPA 8260B

Project: 6750 Santa Rita Rd., Pleasanton, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number		
099-12-767-329	Aqueous	GC/MS W	11/06/08	11/07/08	081106L02		
Parameter	LCS %REC	LCSD %REC	%REC CL	ME CL	RPD	RPD CL	Qualifiers
Benzene	89	93	84-120	78-126	4	0-8	
Carbon Tetrachloride	94	100	63-147	49-161	6	0-10	
Chlorobenzene	98	100	89-119	84-124	2	0-7	
1,2-Dibromoethane	110	104	80-120	73-127	6	0-20	
1,2-Dichlorobenzene	101	103	89-119	84-124	2	0-9	
1,1-Dichloroethene	74	78	77-125	69-133	6	0-16	ME
Ethylbenzene	96	100	80-120	73-127	4	0-20	
Toluene	90	92	83-125	76-132	3	0-9	
Trichloroethene	95	99	89-119	84-124	4	0-8	
Vinyl Chloride	103	107	63-135	51-147	3	0-13	
Methyl-t-Butyl Ether (MTBE)	83	94	82-118	76-124	12	0-13	
Tert-Butyl Alcohol (TBA)	93	86	46-154	28-172	9	0-32	
Diisopropyl Ether (DIPE)	92	93	81-123	74-130	1	0-11	
Ethyl-t-Butyl Ether (ETBE)	93	93	74-122	66-130	0	0-12	
Tert-Amyl-Methyl Ether (TAME)	99	98	76-124	68-132	2	0-10	
Ethanol	81	76	60-138	47-151	6	0-32	
TPPH	95	96	65-135	53-147	1	0-30	

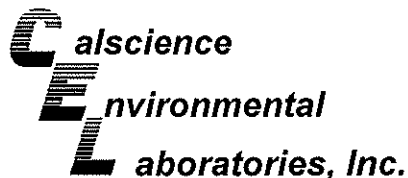
Total number of LCS compounds : 17

Total number of ME compounds : 1

Total number of ME compounds allowed : 1

LCS ME CL validation result : Pass

RPD - Relative Percent Difference , CL - Control Limit



## Quality Control - LCS/LCS Duplicate



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

Date Received: N/A  
Work Order No: 08-10-2502  
Preparation: EPA 5030B  
Method: LUFT GC/MS / EPA 8260B

Project: 6750 Santa Rita Rd., Pleasanton, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number		
099-12-767-330	Aqueous	GC/MS U	11/07/08	11/07/08	081107L01		
Parameter	LCS %REC	LCSD %REC	%REC CL	ME CL	RPD	RPD CL	Qualifiers
Benzene	99	99	84-120	78-126	0	0-8	
Carbon Tetrachloride	103	98	63-147	49-161	5	0-10	
Chlorobenzene	105	102	89-119	84-124	3	0-7	
1,2-Dibromoethane	105	105	80-120	73-127	0	0-20	
1,2-Dichlorobenzene	103	102	89-119	84-124	0	0-9	
1,1-Dichloroethene	106	100	77-125	69-133	5	0-16	
Ethylbenzene	113	112	80-120	73-127	1	0-20	
Toluene	105	104	83-125	76-132	1	0-9	
Trichloroethene	102	99	89-119	84-124	2	0-8	
Vinyl Chloride	121	113	63-135	51-147	7	0-13	
Methyl-t-Butyl Ether (MTBE)	103	98	82-118	76-124	5	0-13	
Tert-Butyl Alcohol (TBA)	90	88	46-154	28-172	2	0-32	
Diisopropyl Ether (DIPE)	107	106	81-123	74-130	1	0-11	
Ethyl-t-Butyl Ether (ETBE)	105	102	74-122	66-130	3	0-12	
Tert-Amyl-Methyl Ether (TAME)	108	108	76-124	68-132	1	0-10	
Ethanol	107	104	60-138	47-151	2	0-32	
TPPH	103	102	65-135	53-147	1	0-30	

Total number of LCS compounds : 17

Total number of ME compounds : 0

Total number of ME compounds allowed : 1

LCS ME CL validation result : Pass

RPD - Relative Percent Difference , CL - Control Limit



Work Order Number: 08-10-2502

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



LAB (LOCATION)

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



Shell Oil Products Chain Of Custody Record

Please Check Appropriate Box:

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

Print Bill To Contact Name: **Denis Brown**

INCIDENT # (ENV SERVICES): **9 7 4 6 4 7 1 1**

PO #: \_\_\_\_\_ SAP #: \_\_\_\_\_

CHECK IF NO INCIDENT # APPLIES:

DATE: **10/27/08**

PAGE: **1** of **1**

SAMPLING COMPANY <b>Blaine Tech Services</b>	LOG CODE <b>BTSS</b>	SITE ADDRESS: Street and City <b>6750 Santa Rita Rd., Pleasanton</b>	State <b>CA</b>	GLOBAL ID NO <b>T0600102532</b>
ADDRESS <b>1680 Rogers Ave, San Jose, CA 95112</b>	EDF DELIVERABLE TO (Name, Company, Office Location) <b>Jon Suling, Delta, Monrovia Office</b>	PHONE NO <b>626.256.6662</b>	E-MAIL <b>jsuling@deltaenv.com</b>	CONSULTANT PROJECT NO _____
PROJECT CONTACT (Hardcopy or PDF Report) <b>Michael Ninokata</b>	TELEPHONE <b>(408)573-0555</b>	FAX <b>(408)573-7771</b>	E-MAIL <b>mninokata@blainetech.com</b>	SAMPLER NAME(S) (PIN) <b>Jose Ortiz</b>
TURNAROUND TIME (CALENDAR DAYS): <input checked="" type="checkbox"/> STANDARD (14 DAY) <input type="checkbox"/> 5 DAYS <input type="checkbox"/> 3 DAYS <input type="checkbox"/> 2 DAYS <input type="checkbox"/> 24 HOURS <input type="checkbox"/> RESULTS NEEDED ON WEEKEND				LAB USE ONLY <b>08-10-2502</b>

LA - RWQCS REPORT FORMAT  UST AGENCY:

TEMPERATURE ON RECEIPT: \_\_\_\_\_ °C

SPECIAL INSTRUCTIONS OR NOTES :

CC Rich Garlow rgarlow@deltaenv.com with final report.

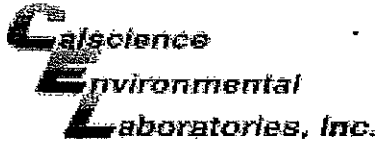
Run TPH-d w/Silica Gel Clean Up

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

LAB USER ONLY	Field Sample Identification	SAMPLING		MATRIX	PRESERVATIVE					NO. OF CONT.	REQUESTED ANALYSIS											TEMPERATURE ON RECEIPT °C	Container PID Readings or Laboratory Notes				
		DATE	TIME		HCL	HNO3	H2SO4	NONE	OTHER		TPH - Purgeable (8260B)	TPH - Extractable (8015M)	BTEX (8260B)	5 Oxygenates (8260B)	MTBE (8260B)	TBA (8260B)	DIPE (8260B)	TAME (8260B)	BTBE (8260B)	1,2 DCA (8260B)	EDB (8260B)			Ethanol (8260B)	Methanol (8015M)		
	1 MW-1	10/27/08	1125	W	X					3	X	X	X	X													
	2 MW-2		1335		X					3	X	X	X	X													
	3 MW-3		1304		X					3	X	X	X	X													
	4 MW-4		1200		X					3	X	X	X	X													
	5 MW-5		1050		X					3	X	X	X	X													
	6 MW-6		1020		X					3	X	X	X	X													
	7 MW-7		945		X					3	X	X	X	X													

Relinquished by: (Signature) <i>[Signature]</i>	Received by: (Signature) <i>[Signature] (Sample Custodian)</i>	Date: <b>10/27/08</b>	Time: <b>1500</b>
Relinquished by: (Signature) <i>[Signature] (Sample Cust)</i>	Received by: (Signature) <i>[Signature] CEL</i>	Date: <b>10-28-08</b>	Time: <b>1235</b>
Relinquished by: (Signature) <i>[Signature] GSD 102808 1730 650510632413</i>	Received by: (Signature) <i>[Signature] webster CE</i>	Date: <b>10/29/08</b>	Time: <b>1015</b>

05/20/05 Revision



WORK ORDER #: 08-10-2502

SAMPLE RECEIPT FORM

Cooler 1 of 1

CLIENT: BTS

DATE: 10/29/08

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

Temperature 2.1°C + 1.8°C (CF) = 3.9°C [ ] Blank [x] Sample

[ ] Sample(s) outside temperature criteria (PM/APM contacted by: \_\_\_\_\_).

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

[ ] Received at ambient temperature, placed on ice for transport by Courier.

Ambient Temperature: [ ] Air [ ] Filter

Initial: MC

CUSTODY SEALS INTACT:

[ ] Cooler [ ] \_\_\_\_\_ [ ] No (Not Intact) [x] Not Present

Initial: M

[ ] Sample [ ] \_\_\_\_\_ [ ] No (Not Intact) [x] Not Present

Initial: W.S.C.

SAMPLE CONDITION:

	Yes	No	N/A
Chain-Of-Custody document(s) received with samples.....	[x]	[ ]	[ ]
Sampler's name indicated on COC.....	[x]	[ ]	[ ]
Sample container label(s) consistent with COC.....	[x]	[ ]	[ ]
Sample container(s) intact and good condition.....	[x]	[ ]	[ ]
Correct containers and volume for analyses requested.....	[x]	[ ]	[ ]
Proper preservation noted on sample label(s).....	[x]	[ ]	[ ]
Volatile analysis container(s) free of headspace.....	[x]	[ ]	[ ]
Tedlar bag(s) free of condensation.....	[ ]	[ ]	[x]

CONTAINER TYPE:

Solid: [ ] 4ozCGJ [ ] 8ozCGJ [ ] 16ozCGJ [ ] Sleeve [ ] EnCores® [ ] TerraCores® [ ] \_\_\_\_\_

Water: [ ] VOA [x] VOA<sup>3</sup>h [ ] VOAna<sub>2</sub> [ ] 125AGB [ ] 125AGBh [ ] 125AGBpo<sub>4</sub> [ ] 1AGB [ ] 1AGBna<sub>2</sub>

[ ] 1AGBs [ ] 500AGB [ ] 500AGBs [ ] 250CGB [ ] 250CGBs [ ] 1PB [ ] 500PB [ ] 500PBna [ ] 250PB

[ ] 250PBn [ ] 125PB [ ] 125PBz<sub>2</sub>na [ ] 100PBsterile [ ] 100PBna<sub>2</sub> [ ] \_\_\_\_\_ [ ] \_\_\_\_\_ [ ] \_\_\_\_\_

Air: [ ] Tedlar® [ ] Summa® [ ] \_\_\_\_\_

Checked/Labeled by: W.S.C.

Container: C:Clear A:Amber P:Poly/Plastic G:Glass J:Jar B:Bottle

Reviewed by: PS

Preservative: h:HCL n:HNO<sub>3</sub> na<sub>2</sub>:Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub> na:NaOH po<sub>4</sub>:H<sub>3</sub>PO<sub>4</sub> s:H<sub>2</sub>SO<sub>4</sub> z<sub>2</sub>na:ZnAc<sub>2</sub>+NaOH

Scanned by: W.S.C.