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Alameda County  
Environmental Health

August 14, 2008  
DELTA Project No. SCA8999S1  
SAP No. 135244

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

**Re: SECOND QUARTER 2008 GROUNDWATER MONITORING  
REPORT  
Shell-Branded Service Station  
8999 San Ramon Road  
Dublin, California**



Dear Mr. Wickham:

On behalf of Shell Oil Products (SHELL), Delta Consultants (DELTA) has prepared this *Second Quarter 2008 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 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.

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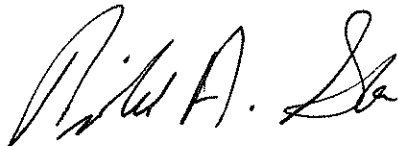


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Mr. Jerry Wickham  
Alameda County Health Care Services Agency  
August 14, 2008  
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If you have any questions regarding this site, please contact Mr. Richard Garlow (DELTA) at (408) 826-1880 or Mr. Denis Brown (SHELL) at (707) 865-0251.

Sincerely,  
**Delta Consultants**



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



Attachment: Second Quarter 2008 Groundwater Monitoring Report

cc: Denis Brown, Shell Oil Products US, Carson  
Carl Cox, C and J Cox Corporation, Pleasanton  
Colleen Winey, Zone 7 Water Agency, Livermore

## SHELL QUARTERLY STATUS REPORT

Station Address:	8999 San Ramon Road, Dublin, California
DELTA Project No.:	SCA8999S1
SHELL Project Manager / Phone No.:	Denis Brown / (707) 865-0251
DELTA Site Manager / Phone No.:	Richard Garlow / (408) 826-1880
Primary Agency / Regulatory ID:	ACHCSA / Jerry Wickham
Other Agencies to Receive Copies:	Zone 7 Water Agency

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

1. Quarterly groundwater monitoring and sampling. Submitted quarterly report.
2. Wells MW-1, MW-2, MW-3, MW-4, MW-6, and MW-10 were destroyed on May 15, 2008.
3. Submitted *Monitoring Well Destruction Report* dated June 9, 2008.

### WORK PROPOSED FOR NEXT QUARTER (THIRD - 2008):

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

Current Phase of Project:	Site Assessment, Groundwater monitoring
Frequency of Sampling:	Quarterly
Frequency of Monitoring:	Quarterly
Is Separate Phase Hydrocarbon Present On-site (Well #'s):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Cumulative SPH Recovered to Date:	NA
SPH Recovered This Quarter:	NA
Groundwater Recovered This Quarter:	249.3 gallons were recovered during sampling on May 27, 2008.
Sensitive Receptor(s) and Respective Direction(s):	No municipal water supply wells were identified within a one-mile radius. A domestic drinking water well (25/1W-35L001) is located ~2,300 ft. southwest of the site.
Site Lithology:	Predominately clay with sand and sandy lean clays to a total depth of approximately 30 feet bg plus CPT data to 80 feet.
Current Remediation Techniques:	None
Permits for Discharge:	None
Approximate Depth to Groundwater:	23.98 feet to 33.97 feet below top of well casing
Groundwater Gradient:	Easterly at approximately 0.03 ft/ft.
Current Agency Correspondence:	NA
Date of Most Recent Work Plan Approval:	NA

## SHELL QUARTERLY STATUS REPORT

### Site History:

Case opening	August 2004
On-Site Assessment	July 2005
Off-Site Assessment	July 2006 -Present
Passive Remediation	Monitor Natural Attenuation
Active Remediation	150 cubic yards of soil removed in 2004

### Summary of Unusual Activity:

Wells MW-1, MW-2, MW-3, MW-4, MW-6, and MW-10 were destroyed. Well MW-11 was dry. This well has been dry since 2006.

## **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 Service Station  
8999 San Ramon Road  
Dublin, 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)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)
MW-1	5/9/2005	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	20.93	NA
MW-1	5/19/2005	<5,000	160 a	<50	<50	<50	<100	1,400	<200	<200	<200	57,000	420.06	20.70	399.36
MW-1	8/15/2005	<5,000	<50	<50	<50	<50	<100	360	<200	<200	<200	56,000	420.06	23.98	396.08
MW-1	11/8/2005	Well dry	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	420.06	NA	NA
MW-1	1/30/2006	585	438	<0.500	<0.500	<0.500	<0.500	15.6	<0.500	<0.500	<0.500	115,000	420.06	26.39	393.67
MW-1	5/19/2006	2,940	279 c	<0.500	<0.500	<0.500	<0.500	150	<0.500	0.940	<0.500	49,500	420.06	23.10	396.96
MW-1	8/24/2006	812	85.6 c	<0.500	<0.500	<0.500	<0.500	33.0	<0.500	0.890	<0.500	30,700	420.06	23.94	396.12
MW-1	11/2/2006	Well dry	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	420.06	NA	NA
MW-1	1/29/2007	Well dry	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	420.06	NA	NA
MW-1	6/5/2007	Well dry	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	420.06	NA	NA
MW-1	8/27/2007	Well dry	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	420.06	NA	NA
MW-1	11/30/2007	Well dry	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	420.06	NA	NA
MW-1	2/15/2008	Insufficient water		NA	NA	NA	NA	NA	NA	NA	NA	NA	420.06	26.45	393.61
MW-1	5/15/2008	Well destroyed		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-2	5/9/2005	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	20.72	NA
MW-2	5/19/2005	<500	<50	<5.0	<5.0	<5.0	<10	11	<20	<20	<20	4,200	418.88	21.26	397.62
MW-2	8/15/2005	<1,000	<50	<10	<10	<10	<20	<10	<40	<40	<40	7,500	418.88	25.33	393.55
MW-2	11/8/2005	Well dry	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	418.88	NA	NA
MW-2	1/30/2006	<50.0	401	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	1,310	418.88	25.87	393.01
MW-2	5/19/2006	398	134 c	<0.500	<0.500	<0.500	<0.500	7.65	<0.500	<0.500	<0.500	4,910	418.88	21.75	397.13
MW-2	8/24/2006	<50.0	<46.9 c	<0.500	<0.500	<0.500	<0.500	2.82	<0.500	<0.500	<0.500	4,070	418.88	24.60	394.28
MW-2	11/2/2006	Well dry	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	418.88	NA	NA
MW-2	1/29/2007	Well dry	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	418.88	NA	NA
MW-2	6/5/2007	Insufficient water		NA	NA	NA	NA	NA	NA	NA	NA	NA	418.88	26.54	392.34
MW-2	8/27/2007	Well dry	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	418.88	NA	NA
MW-2	11/30/2007	Well dry	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	418.88	NA	NA
MW-2	2/15/2008	Insufficient water		NA	NA	NA	NA	NA	NA	NA	NA	NA	418.88	26.15	392.73

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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)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)
MW-2	5/15/2008	Well destroyed		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-3	5/9/2005	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	19.08	NA
MW-3	5/19/2005	<50	120 a	<0.50	<0.50	<0.50	<1.0	40	<2.0	<2.0	<2.0	6.5	417.24	19.08	398.16
MW-3	8/15/2005	<50	73	<0.50	<0.50	<0.50	<1.0	34	<2.0	<2.0	<2.0	<5.0	417.24	22.20	395.04
MW-3	11/8/2005	Well dry	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	417.24	NA	NA
MW-3	1/30/2006	<50.0	412	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<10.0	417.24	23.64	393.60
MW-3	5/19/2006	<50.0	183 c	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<10.0	417.24	19.00	398.24
MW-3	8/24/2006	<50.0	214 c	<0.500	<0.500	<0.500	<0.500	3.11	<0.500	<0.500	<0.500	661	417.24	21.84	395.40
MW-3	11/2/2006	Well dry	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	417.24	NA	NA
MW-3	1/29/2007	Well dry	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	417.24	NA	NA
MW-3	6/5/2007	<50 f	230 c	<0.50	<1.0	<1.0	<1.0	0.38 g	<2.0	<2.0	<2.0	<10	417.24	23.80	393.44
MW-3	8/27/2007	Well dry	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	417.24	NA	NA
MW-3	11/30/2007	Well dry	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	417.24	NA	NA
MW-3	2/15/2008	Insufficient water		NA	NA	NA	NA	NA	NA	NA	NA	NA	417.24	23.60	393.64
MW-3	5/15/2008	Well destroyed		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-4	5/9/2005	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	19.77	NA
MW-4	5/19/2005	97	59 a	0.66	<0.50	<0.50	<1.0	4.8	<2.0	<2.0	<2.0	8.2	420.52	19.85	400.67
MW-4	8/15/2005	67	<50	<0.50	<0.50	<0.50	<1.0	0.86	<2.0	<2.0	<2.0	<5.0	420.52	23.34	397.18
MW-4	11/8/2005	Well dry	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	420.52	NA	NA
MW-4	1/30/2006	<50.0	112	<0.500	<0.500	<0.500	<0.500	1.63	<0.500	<0.500	<0.500	<10.0	420.52	24.13	396.39
MW-4	5/19/2006	<50.0	<46.9 c	<0.500	<0.500	<0.500	<0.500	1.08	<0.500	<0.500	<0.500	<10.0	420.52	19.79	400.73
MW-4	8/24/2006	<50.0	<47.2 c	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	78.3	420.52	22.50	398.02
MW-4	11/2/2006	Well dry	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	420.52	NA	NA
MW-4	1/29/2007	<50	<50 c	<0.50	<0.50	<0.50	<1.0	<0.50	<2.0	<2.0	<2.0	<5.0	420.52	25.82	394.70
MW-4	6/5/2007	62 f	120 c	<0.50	<1.0	<1.0	<1.0	1.4	<2.0	<2.0	<2.0	<10	420.52	24.32	396.20
MW-4	8/27/2007	Well dry	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	420.52	NA	NA



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Dublin, 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)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)
MW-4	11/30/2007	Well dry	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	420.52	NA	NA
MW-4	2/15/2008	56 f	<50 c	<0.50	<1.0	<1.0	<1.0	2.9	<2.0	<2.0	<2.0	<10	420.52	24.34	396.18
MW-4	5/15/2008	Well destroyed		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-5	8/21/2006	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	416.88	25.25	391.63
MW-5	8/24/2006	<50.0	108 c	<0.500	<0.500	<0.500	<0.500	3.33	<0.500	<0.500	<0.500	21.0	416.88	25.70	391.18
MW-5	11/2/2006	<50	NA	<0.50	<0.50	<0.50	<1.0	<0.50	<2.0	<2.0	<2.0	<5.0	416.88	28.00	388.88
MW-5	1/29/2007	<50	66 c	<0.50	<0.50	<0.50	<1.0	<0.50	<2.0	<2.0	<2.0	<5.0	416.88	27.80	389.08
MW-5	6/5/2007	<50 f	2,200 c,e	<0.50	<1.0	<1.0	<1.0	0.56 g	<2.0	<2.0	<2.0	<10	416.88	27.72	389.16
MW-5	8/27/2007	Well dry	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	416.88	NA	NA
MW-5	11/30/2007	Insufficient water		NA	NA	NA	NA	NA	NA	NA	NA	NA	416.88	28.39	388.49
MW-5	2/15/2008	Insufficient water		NA	NA	NA	NA	NA	NA	NA	NA	NA	416.88	27.55	389.33
MW-5	5/27/2008	<50	83 c	<0.50	<1.0	<1.0	<1.0	4.3	<2.0	<2.0	<2.0	<10	416.88	26.68	390.20
MW-5B	2/7/2008	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	417.66	29.74	387.92
MW-5B	2/15/2008	110 e,f	<50 c	<0.50	<1.0	<1.0	<1.0	1,700	<2.0	<2.0	<2.0	250	417.66	28.85	388.81
MW-5B	5/27/2008	620	<50 c	<2.5	<5.0	<5.0	<5.0	590	<10	<10	<10	<50	417.66	27.89	389.77
MW-5C	2/7/2008	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	417.10	33.97	383.13
MW-5C	2/15/2008	<50 f	<50 c	<0.50	<1.0	<1.0	<1.0	360	<2.0	<2.0	<2.0	97	417.10	34.25	382.85
MW-5C	5/27/2008	350	<50 c	<2.5	<5.0	<5.0	<5.0	290	<10	<10	<10	<50	417.10	33.97	383.13
MW-6	2/28/2006	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	422.50	23.55	398.95
MW-6	3/3/2006	<50.0	104	<0.500	<0.500	<0.500	<0.500	4.93	<0.500	<0.500	<0.500	<10.0	422.50	23.30	399.20
MW-6	5/19/2006	<50.0	<46.9	<0.500	<0.500	<0.500	<0.500	5.76	<0.500	<0.500	<0.500	<10.0	422.50	20.31	402.19
MW-6	8/24/2006	<50.0	<47.2 c	<0.500	<0.500	<0.500	<0.500	0.870	<0.500	<0.500	<0.500	<10.0	422.50	23.69	398.81
MW-6	11/2/2006	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	422.50	28.51	393.99
MW-6	1/29/2007	<50	<50 c	<0.50	<0.50	<0.50	<1.0	1.7	<2.0	<2.0	<2.0	<5.0	422.50	27.08	395.42

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MW-6	6/5/2007	<50 f	97 c	<0.50	<1.0	<1.0	<1.0	1.1	<2.0	<2.0	<2.0	<10	422.50	25.77	396.73
MW-6	8/27/2007	Well dry	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	422.50	NA	NA
MW-6	11/30/2007	Well dry	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	422.50	NA	NA
MW-6	2/15/2008	<50 f	<50 c	<0.50	<1.0	<1.0	<1.0	9.0	<2.0	<2.0	<2.0	<10	422.50	25.56	396.94
MW-6	5/15/2008	Well destroyed		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-7	8/21/2006	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	414.35	25.84	388.51
MW-7	8/24/2006	<50.0	<47.2 c	<0.500	<0.500	<0.500	<0.500	2.63	<0.500	<0.500	<0.500	751	414.35	26.21	388.14
MW-7	11/2/2006	Well dry	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	414.35	NA	NA
MW-7	1/29/2007	Well dry	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	414.35	NA	NA
MW-7	6/5/2007	Well dry	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	414.35	NA	NA
MW-7	8/27/2007	Well dry	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	414.35	NA	NA
MW-7	11/30/2007	Well dry	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	414.35	NA	NA
MW-7	2/15/2008	Insufficient water		NA	NA	NA	NA	NA	NA	NA	NA	NA	414.35	27.95	386.40
MW-7	5/27/2008	<50	<50 c	<0.50	<1.0	<1.0	<1.0	2.0	<2.0	<2.0	<2.0	<10	414.35	26.93	387.42
MW-8	8/21/2006	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	414.54	23.02	391.52
MW-8	8/24/2006	110	74.5 c	<0.500	<0.500	<0.500	<0.500	4.62	<0.500	<0.500	<0.500	6,610	414.54	23.17	391.37
MW-8	11/2/2006	92	96 c	<0.50	<0.50	<0.50	<1.0	1.4	<2.0	<2.0	<2.0	2,300	414.54	27.69	386.85
MW-8	1/29/2007	<50	<50 c	<0.50	<0.50	<0.50	<1.0	0.51	<2.0	<2.0	<2.0	350	414.54	26.40	388.14
MW-8	6/5/2007	<50 f	120 c	<0.50	<1.0	<1.0	<1.0	0.48 g	<2.0	<2.0	<2.0	290	414.54	25.17	389.37
MW-8	8/27/2007	Well dry	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	414.54	NA	NA
MW-8	11/30/2007	Well dry	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	414.54	NA	NA
MW-8	2/15/2008	<50 f	<50 c	<0.50	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<10	414.54	24.66	389.88
MW-8	5/27/2008	58	<50 c	<0.50	<1.0	<1.0	<1.0	1.4	<2.0	<2.0	<2.0	520	414.54	25.98	388.56
MW-8B	2/7/2008	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	414.81	26.81	388.00
MW-8B	2/15/2008	<50 f	<50 c	<0.50	<1.0	<1.0	<1.0	17	<2.0	<2.0	<2.0	65	414.81	26.23	388.58

**TABLE 1**  
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Well ID	Date	TPPH (ug/L)	TEPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8260 (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)
<b>MW-8B</b>	<b>5/27/2008</b>	<50	<50 c	<0.50	<1.0	<1.0	<1.0	23	<2.0	<2.0	<2.0	33	414.81	25.51	389.30
MW-9	8/21/2006	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	412.69	27.75	384.94
MW-9	8/24/2006	<50.0	69.9 c,d	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	86.8	412.69	28.35	384.34
MW-9	11/2/2006	<50	NA	<0.50	<0.50	<0.50	<1.0	<0.50	<2.0	<2.0	<2.0	<5.0	412.69	28.43	384.26
MW-9	1/29/2007	Well dry	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	412.69	NA	NA
MW-9	6/5/2007	Insufficient water		NA	NA	NA	NA	NA	NA	NA	NA	NA	412.69	28.72	383.97
MW-9	8/27/2007	Well dry	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	412.69	NA	NA
MW-9	11/30/2007	Well dry	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	412.69	NA	NA
MW-9	2/15/2008	Insufficient water		NA	NA	NA	NA	NA	NA	NA	NA	NA	412.69	28.00	384.69
<b>MW-9</b>	<b>5/27/2008</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>&lt;2.0</b>	<b>&lt;2.0</b>	<b>&lt;2.0</b>	<b>&lt;10</b>	<b>412.69</b>	<b>27.93</b>	<b>384.76</b>
MW-10	8/21/2006	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	419.48	23.90	395.58
MW-10	8/24/2006	626	100 c	1.04	<0.500	1.22	<0.500	12.4	<0.500	<0.500	<0.500	5,740	419.48	24.02	395.46
MW-10	11/2/2006	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	419.48	28.50	390.98
MW-10	1/29/2007	91	<50 c	<0.50	<0.50	<0.50	<1.0	4.9	<2.0	<2.0	<2.0	1,900	419.48	27.30	392.18
MW-10	6/5/2007	82 f	150 c	<0.50	<1.0	<1.0	<1.0	1.3	<2.0	<2.0	<2.0	540	419.48	26.09	393.39
MW-10	8/27/2007	Well dry	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	419.48	NA	NA
MW-10	11/30/2007	Well dry	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	419.48	NA	NA
MW-10	2/15/2008	<50 f	<50 c	<0.50	<1.0	<1.0	<1.0	1.6	<2.0	<2.0	<2.0	500	419.48	25.58	393.90
MW-10	5/15/2008	Well destroyed		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-11	8/21/2006	Well dry	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	409.69	NA	NA
MW-11	8/24/2006	Well dry	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	409.69	NA	NA
MW-11	11/2/2006	Well dry	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	409.69	NA	NA
MW-11	1/29/2007	Well dry	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	409.69	NA	NA
MW-11	6/5/2007	Well dry	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	409.69	NA	NA
MW-11	8/27/2007	Well dry	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	409.69	NA	NA

**TABLE 1**  
**WELL CONCENTRATIONS**  
**Shell Service Station**  
**8999 San Ramon Road**  
**Dublin, 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)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)
MW-11	11/30/2007	Well dry	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	409.69	NA	NA
MW-11	2/15/2008	Well dry	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	409.69	NA	NA
MW-11	5/27/2008	Well dry	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	409.69	NA	NA
MW-11B	2/7/2008	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	409.03	31.47	377.56
MW-11B	2/15/2008	<50 f	<50 c	<0.50	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<10	409.03	31.53	377.50
MW-11B	5/27/2008	<50	<50 c	<0.50	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<10	409.03	30.83	378.20
MW-12	2/7/2008	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	411.18	31.10	380.08
MW-12	2/15/2008	<50 f	<50 c	<0.50	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<10	411.18	31.22	379.96
MW-12	5/27/2008	<50	<50 c	<0.50	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<10	411.18	30.53	380.65

**TABLE 1  
WELL CONCENTRATIONS  
Shell Service Station  
8999 San Ramon Road  
Dublin, 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)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)
---------	------	----------------	----------------	-------------	-------------	-------------	-------------	------------------------	----------------	----------------	----------------	---------------	--------------	----------------------------	--------------------------

Abbreviations:

TPPH = Total petroleum hydrocarbons as gasoline by modified 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

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 Service Station  
8999 San Ramon Road  
Dublin, 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)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)
---------	------	----------------	----------------	-------------	-------------	-------------	-------------	------------------------	----------------	----------------	----------------	---------------	--------------	----------------------------	--------------------------

Notes:

a = Hydrocarbon reported does not match the pattern of the laboratory's Diesel standard.

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

c = Diesel with silica gel clean-up.

d = Insufficient sample available for reanalysis.

e = 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.

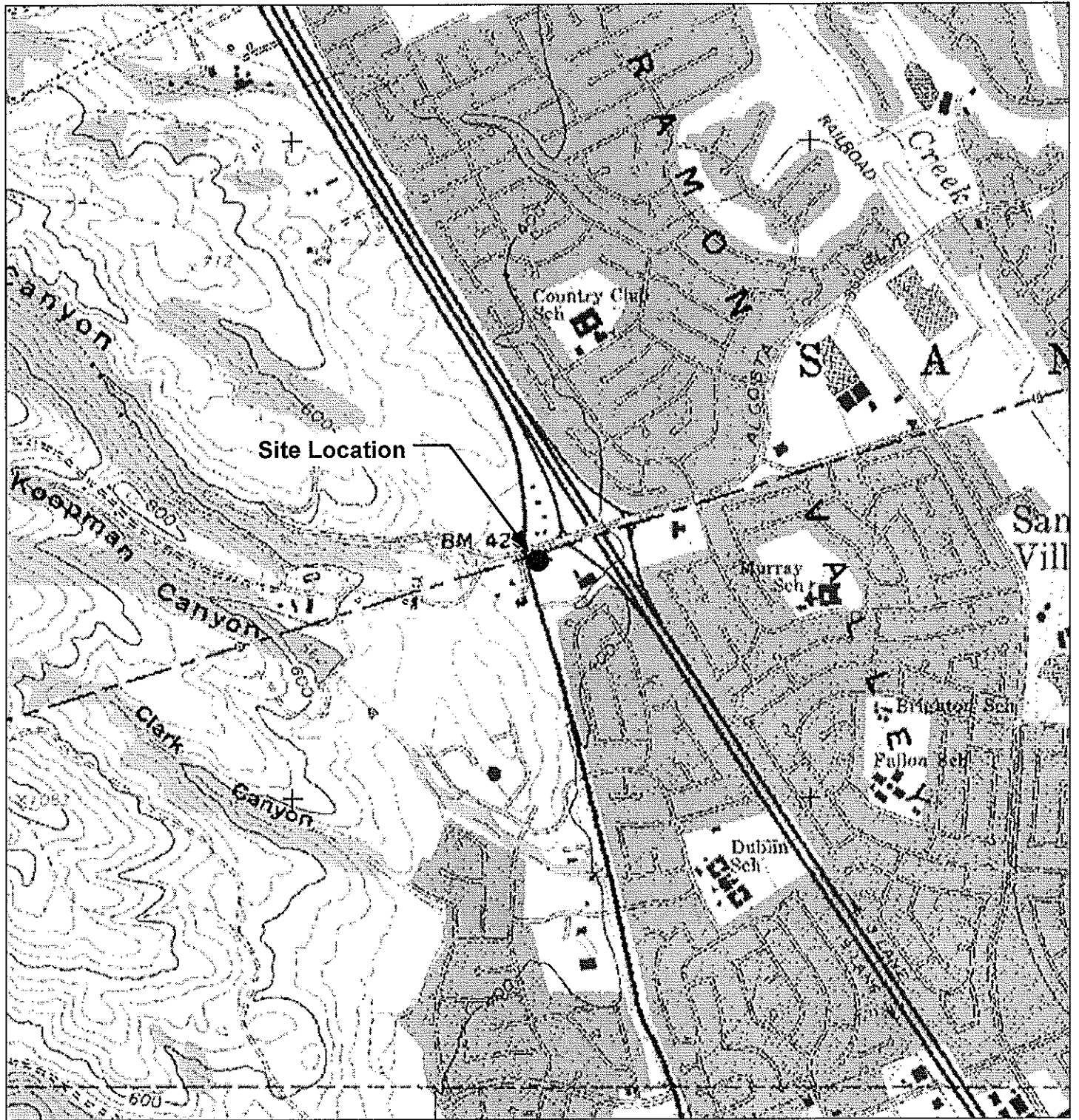
f = Analyzed by EPA Method 8015B (M).

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

Site surveyed May 10, 2005 by Mid Coast Engineers.

Well MW-6 surveyed March 3, 2006 by Mid Coast Engineers.

## FIGURES

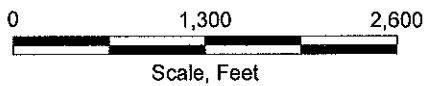


**GENERAL NOTES:**

Base Map from: 3-D TopoQuads DeLorme  
 Yarmouth, ME 04096 Source Data: USGS



QUADRANGLE LOCATION



**FIGURE 1**  
**SITE LOCATION MAP**

**SHELL-BRANDED SERVICE STATION**  
 8999 San Ramon Road  
 Dublin, California

PROJECT NO. SCA8999S1	DRAWN BY V. F. 12/9/04
FILE NO.	PREPARED BY VF
REVISION NO.	REVIEWED BY





PROJECT NUMBER  
SCA8999S1

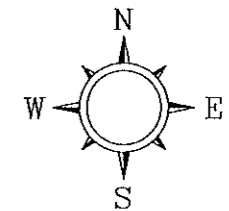
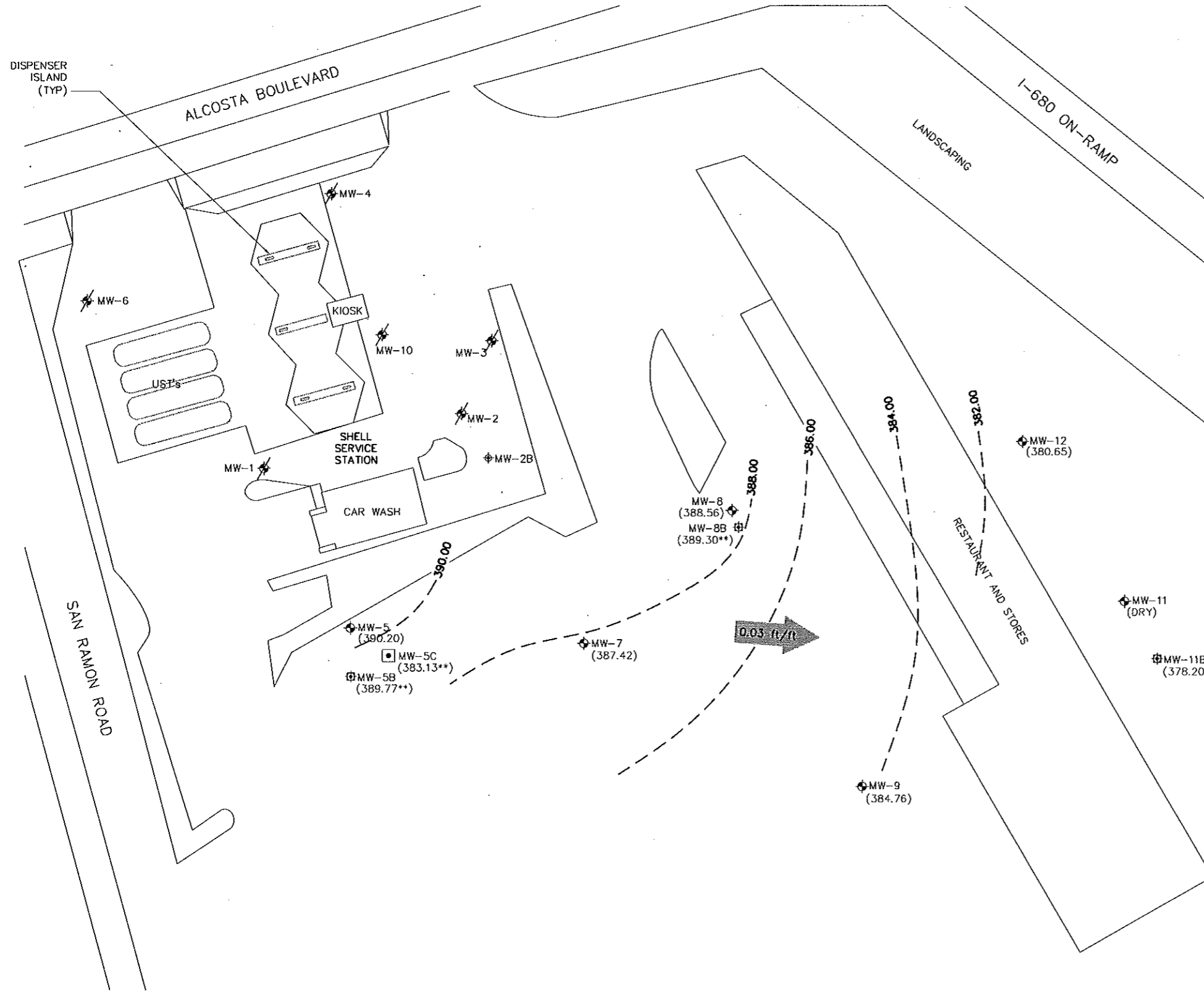
APPROVED BY

CHECKED BY

DRAWN BY  
J.F.F.

7/22/2008

0 20 40  
SCALE IN FEET



- LEGEND**
- MW-5 GROUNDWATER MONITORING WELL LOCATION AND DESIGNATION
  - MW-1 DESTROYED GROUNDWATER MONITORING WELL LOCATION AND DESIGNATION
  - MW-8B GROUNDWATER MONITORING WELL LOCATION AND DESIGNATION
  - MW-5C GROUNDWATER MONITORING WELL LOCATION AND DESIGNATION
  - MW-2B PROPOSED GROUNDWATER MONITORING WELL LOCATION
  - (396.94) GROUNDWATER ELEVATION IN FEET ABOVE MEAN SEA LEVEL (Ft/MSL)
  - 395.00 - - - GROUNDWATER CONTOUR IN FEET ABOVE MEAN SEA LEVEL (Ft/MSL)  
CONTOUR INTERVAL=2.00 FEET
  - 0.03 ft/ft APPROXIMATE GROUNDWATER GRADIENT DIRECTION (ft/ft)
  - \*\* B AND C LEVEL WELLS NOT USED IN CONTOURING
  - DRY WELL DRY, NOT SAMPLED

**NOTE**

WELLS MW-1, MW-2, MW-3, MW-4, MW-6, MW-10 WERE DESTROYED ON 5/15/2008.

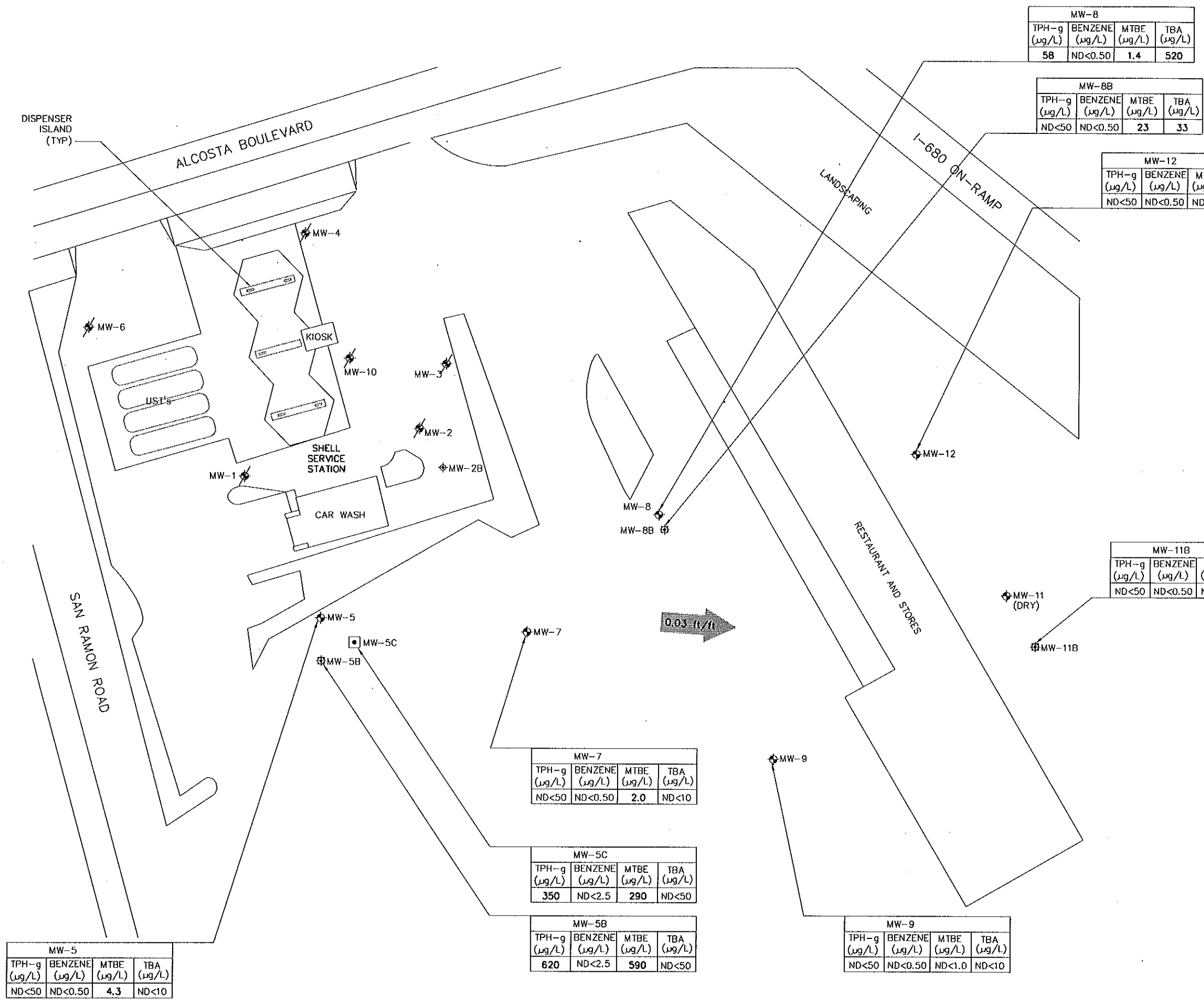
**DELTA CONSULTANTS**

SHELL OIL PRODUCTS U.S.  
SHELL-BRANDED SERVICE STATION  
DUBLIN, CALIFORNIA

**FIGURE 2**  
**GROUNDWATER ELEVATION**  
**CONTOUR MAP**  
5/27/2008  
8999 SAN RAMON ROAD  
DUBLIN, CALIFORNIA

PROJECT NUMBER: SCA8999S1  
 DRAWN BY: J.F.F.  
 CHECKED BY:  
 APPROVED BY:  
 DATE: 7/22/2008

SCALE IN FEET  
 0 20 40



MW-5			
TPH-g ( $\mu\text{g/L}$ )	BENZENE ( $\mu\text{g/L}$ )	MTBE ( $\mu\text{g/L}$ )	TBA ( $\mu\text{g/L}$ )
ND<50	ND<0.50	4.3	ND<10

MW-7			
TPH-g ( $\mu\text{g/L}$ )	BENZENE ( $\mu\text{g/L}$ )	MTBE ( $\mu\text{g/L}$ )	TBA ( $\mu\text{g/L}$ )
ND<50	ND<0.50	2.0	ND<10

MW-5C			
TPH-g ( $\mu\text{g/L}$ )	BENZENE ( $\mu\text{g/L}$ )	MTBE ( $\mu\text{g/L}$ )	TBA ( $\mu\text{g/L}$ )
350	ND<2.5	290	ND<50

MW-5B			
TPH-g ( $\mu\text{g/L}$ )	BENZENE ( $\mu\text{g/L}$ )	MTBE ( $\mu\text{g/L}$ )	TBA ( $\mu\text{g/L}$ )
620	ND<2.5	590	ND<50

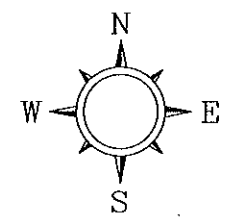
MW-9			
TPH-g ( $\mu\text{g/L}$ )	BENZENE ( $\mu\text{g/L}$ )	MTBE ( $\mu\text{g/L}$ )	TBA ( $\mu\text{g/L}$ )
ND<50	ND<0.50	ND<1.0	ND<10

MW-8			
TPH-g ( $\mu\text{g/L}$ )	BENZENE ( $\mu\text{g/L}$ )	MTBE ( $\mu\text{g/L}$ )	TBA ( $\mu\text{g/L}$ )
58	ND<0.50	1.4	520

MW-8B			
TPH-g ( $\mu\text{g/L}$ )	BENZENE ( $\mu\text{g/L}$ )	MTBE ( $\mu\text{g/L}$ )	TBA ( $\mu\text{g/L}$ )
ND<50	ND<0.50	23	33

MW-12			
TPH-g ( $\mu\text{g/L}$ )	BENZENE ( $\mu\text{g/L}$ )	MTBE ( $\mu\text{g/L}$ )	TBA ( $\mu\text{g/L}$ )
ND<50	ND<0.50	ND<1.0	ND<10

MW-11B			
TPH-g ( $\mu\text{g/L}$ )	BENZENE ( $\mu\text{g/L}$ )	MTBE ( $\mu\text{g/L}$ )	TBA ( $\mu\text{g/L}$ )
ND<50	ND<0.50	ND<1.0	ND<10



- LEGEND**
- MW-5 GROUNDWATER MONITORING WELL LOCATION AND DESIGNATION
  - MW-1 DESTROYED GROUNDWATER MONITORING WELL LOCATION AND DESIGNATION
  - MW-8B GROUNDWATER MONITORING WELL LOCATION AND DESIGNATION
  - MW-5C GROUNDWATER MONITORING WELL LOCATION AND DESIGNATION
  - MW-2B PROPOSED GROUNDWATER MONITORING WELL LOCATION
  - TPH-g TOTAL PETROLEUM HYDROCARBONS AS GASOLINE
  - MTBE METHYL TERT-BUTYL ETHER
  - TBA TERT-BUTYL ALCOHOL
  - ND< NOT DETECTED ABOVE LIMIT NOTED
  - $\mu\text{g/L}$  MICROGRAMS PER LITER
  - NA NOT ANALYZED
  - 0.03 ft/ft APPROXIMATE GROUNDWATER GRADIENT DIRECTION (ft/ft)
  - DRY WELL DRY, NOT SAMPLED

**DELTA CONSULTANTS**

SHELL OIL PRODUCTS U.S.  
 SHELL-BRANDED SERVICE STATION  
 DUBLIN, CALIFORNIA

**FIGURE 3**  
 HYDROCARBON DISTRIBUTION IN  
 GROUNDWATER MAP  
 5/27/2008  
 8999 SAN RAMON ROAD  
 DUBLIN, CALIFORNIA

**APPENDIX A**

**FIELD DATA SHEETS**

# SHELL WELLHEAD INSPECTION FORM

(FOR SAMPLE TECHNICIAN)

Site Address 8999 San Ramon Rd. Dublin Date 5/27/08  
 Job Number 080527-WL1 Technician Will Lampe 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-5	+	+							
MW-5B	+	+							
MW-5C	x	+							
MW-7	+	+	+						
MW-8	+	+	+						
MW-9	+	+							
MW-11	+		+					+	Christy BOX
MW-11B	+	+							
MW-12	x	+							
MW-8B	+	+							

\*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 # 680527-WL1 Date 5/27/08 Client Skell

Site 8999 San Ramon Rd. Dublin

Well ID	Time	Well Size (in.)	Sheen / Odor	Depth to Immiscible Liquid (ft.)	Thickness of Immiscible Liquid (ft.)	Volume of Immiscibles Removed (ml)	Depth to water (ft.)	Depth to well bottom (ft.)	Survey Point: TOB or TOC	Notes
MW-5	0820 0801	4				26.68	23.98	24.63		
MW-5B	0814 0807	4				27.89	25.51	667.98		
MW-5C	0812	4					33.97	102.08		
MW-7	0810	4					26.93	28.43		
MW-8	0801	4					25.98	28.98		
MW-9	0826	4					27.93	28.76		
MW-11	0837	2					dly	26.80		
MW-11B	0832	4					30.83	38.46		
MW-12	0842	4					30.53	39.67		
MW-8B	0807	4					25.51	69.58		

**SHELL WELL MONITORING DATA SHEET**

BTS #: <b>080527-WL</b>	Site: <b>8999 San Ramon Rd.</b>
Sampler: <b>WL</b>	Date: <b>5/27/08</b>
Well I.D.: <b>MW-5</b>	Well Diameter: 2 3 <b>4</b> 6 8
Total Well Depth (TD): <b>28.63</b>	Depth to Water (DTW): <b>26.68</b>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <b>PVC</b> Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: <b>27.07</b>	

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: \_\_\_\_\_

<b>1.2</b> (Gals.) X	<b>3</b>	<b>= 3.6</b> Gals.
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
						<b>Well dewatered @ .6 gallons</b>
<b>1425</b>	<b>66.8</b>	<b>6.9</b>	<b>998</b>	<b>7000</b>	<b>-</b>	<b>Cloudy</b>

Did well dewater?  Yes No      Gallons actually evacuated: **.6**

Sampling Date: **5/27/08**      Sampling Time: **1425**      Depth to Water: **26.76**

Sample I.D.: **MW-5**      Laboratory: STL      Other: **CJ science**

Analyzed for: TPH-G BTEX MTBE TPH-D      Other: **See CoC**

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 #: 080527-WL1	Site: 8999 San Ramon Rd
Sampler: WL	Date: 5/27/08
Well I.D.: MW-5B	Well Diameter: 2 3 4 6 8
Total Well Depth (TD): 67.98	Depth to Water (DTW): 27.89
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]: 35.91	

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: \_\_\_\_\_

26.0 (Gals.) X 3 = 78.0 Gals.  
 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 $\mu$ S)	Turbidity (NTUs)	Gals. Removed	Observations
1141	69.4	6.9	1224	531	26.0	Cloudy
1146	70.2	7.0	1197	250	52.0	↓
1151	70.5	6.8	1187	207	78.0	
					DTW = 48.62 @ 1153	

Did well dewater? Yes  No  Gallons actually evacuated: 78.0

Sampling Date: 5/27/08      Sampling Time: 1405      Depth to Water: 29.21

Sample I.D.: MW-5B      Laboratory: STL      Other: Cal Science

Analyzed for: TPH-G    BTEX    MTBE    TPH-D    Other: See COC

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 #: <b>090527-WL1</b>	Site: <b>8999 San Ramon Ave</b>
Sampler: <b>WL</b>	Date: <b>5/27/08</b>
Well I.D.: <b>MW-5C</b>	Well Diameter: 2 3 <b>(4)</b> 6 8
Total Well Depth (TD): <b>102.08</b>	Depth to Water (DTW): <b>33.97</b>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <b>PVC</b> Grade	D.O. Meter (if req'd): <b>YSI HACH</b>
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: <b>47.59</b>	

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: \_\_\_\_\_

<b>44.2</b> (Gals.) X <b>3</b> = <b>132.8</b> Gals.
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
<b>1054</b>	<b>66.9</b>	<b>7.6</b>	<b>1246</b>	<b>71000</b>	<b>44.2</b>	
<b>403 Well dewatered at 50 gallons DTW 96.97 @ 1056</b>						
<b>1350</b>	<b>66.9</b>	<b>7.7</b>	<b>1274</b>	<b>185</b>	<b>-</b>	

Did well dewater?  Yes  No Gallons actually evacuated: **50**

Sampling Date: **5/27/08** Sampling Time: **1350** Depth to Water: **59.93 (2hrs)**

Sample I.D.: **MW-5C** Laboratory: **STL** Other: **Cal Science**

Analyzed for: **TPH-G BTEX MTBE TPH-D** Other: **See COC**

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>080527-WL1</u>	Site: <u>8999 San Ramon Rd</u>
Sampler: <u>WL</u>	Date: <u>5/27/08</u>
Well I.D.: <u>MW-7</u>	Well Diameter: 2 3 <u>4</u> 6 8 _____
Total Well Depth (TD): <u>28.43</u>	Depth to Water (DTW): <u>28.93</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>27.23</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

<u>.97</u> (Gals.) X <u>3</u> = <u>2.9</u> Gals.	Well Diameter	Multiplier	Well Diameter	Multiplier
1 Case Volume      Specified Volumes      Calculated Volume	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
			<u>.3 gallons</u>	<u>DTW = 27.98 @ 1330</u>		
<u>1330</u>	<u>68.1</u>	<u>6.8</u>	<u>890</u>	<u>71000</u>	<u>-</u>	<u>cloudy</u>
			<u>only able to fill 1/2 ambers</u>			

Did well dewater?  Yes      No      Gallons actually evacuated: .3

Sampling Date: 5/27/08      Sampling Time: 1330      Depth to Water: 27.71 (2 hrs)

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

Analyzed for: TPH-G    BTEX    MTBE    TPH-D    Other: see coc

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>080527-WL1</u>	Site: <u>8999 San Ramon Rd.</u>
Sampler: <u>WL</u>	Date: <u>5/27/08</u>
Well I.D.: <u>MW-8</u>	Well Diameter: 2 3 <u>4</u> 6 8
Total Well Depth (TD): <u>28.98</u>	Depth to Water (DTW): <u>23.98</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>24.98</u>	

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

$3.25 \text{ (Gals.)} \times 3 = 9.75 \text{ Gals.}$ 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
<u>1011</u>	<u>66.4</u>	<u>6.7</u>	<u>918</u>	<u>49</u>	<u>3.25</u>	<u>Clear</u>
<u>Well</u>	<u>dewatered</u>	<u>@</u>	<u>4</u>	<u>sallours</u>	<u>DTW =</u>	<u>26.93 @ 10/2</u>
<u>1300</u>	<u>67.9</u>	<u>7.0</u>	<u>1032</u>	<u>113</u>	<u>—</u>	

Did well dewater?  Yes No      Gallons actually evacuated: 4.0

Sampling Date: 5/27/08      Sampling Time: 1300      Depth to Water: 24.21

Sample I.D.: MW-8      Laboratory: STL Other Cal Science

Analyzed for: TPH-G BTEX MTBE TPH-D Other: see Col

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>080527-WL1</u>	Site: <u>8999 San Ramon Rd</u>
Sampler: <u>WL</u>	Date: <u>5/27/08</u>
Well I.D.: <u>MW-8B</u>	Well Diameter: 2 3 <u>④</u> 6 8 _____
Total Well Depth (TD): <u>69.58</u>	Depth to Water (DTW): <u>23.51</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>RVC</u> Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: <u>34.30</u>	

Purge Method:	Sampling Method:
Bailer	<input checked="" type="checkbox"/> Bailer
Disposable Bailer	Disposable Bailer
Positive Air Displacement	Extraction Port
<input checked="" type="checkbox"/> Electric Submersible	Dedicated Tubing
Waterra	Other:
Peristaltic	
Extraction Pump	
Other _____	

	Well Diameter	Multiplier	Well Diameter	Multiplier
<u>28.6</u> (Gals.) X <u>3</u>	1"	0.04	4"	0.65
= <u>85.9</u> Gals.	2"	0.16	6"	1.47
1 Case Volume      Specified Volumes      Calculated Volume	3"	0.37	Other	radius <sup>2</sup> * 0.163

Time	Temp (°F)	pH	Cond. (mS or μS)	Turbidity (NTUs)	Gals. Removed	Observations
<u>0952</u>	<u>66.6</u>	<u>7.0</u>	<u>974</u>	<u>99</u>	<u>28.6</u>	<u>clear</u>
<u>0957</u>	<u>67.0</u>	<u>6.8</u>	<u>970</u>	<u>63</u>	<u>57.2</u>	↓
<u>1002</u>	<u>67.2</u>	<u>6.8</u>	<u>974</u>	<u>46</u>	<u>85.9</u>	
				<u>DTW = 56.91 @ 1003</u>		

Did well dewater?    Yes <input checked="" type="checkbox"/> No	Gallons actually evacuated: <u>85.9</u>
Sampling Date: <u>5/27/08</u> Sampling Time: <u>1245</u> Depth to Water: <u>26.01</u>	
Sample I.D.: <u>MW-8B</u> Laboratory: STL    Other: <u>Cal Science</u>	
Analyzed for: TPH-G    BTEX    MTBE    TPH-D    Other: <u>see coc</u>	
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 #: <b>080527-WL1</b>	Site: <b>8999 San Ramon Rd</b>
Sampler: <b>WL</b>	Date: <b>5/27/08</b>
Well I.D.: <b>MW-9</b>	Well Diameter: 2 3 <b>4</b> 6 8
Total Well Depth (TD): <b>28.76</b>	Depth to Water (DTW): <b>27.93</b>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <b>RVC</b> Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: <b>28.09</b>	

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

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

<b>.5</b> (Gals.) X	<b>3</b>	= <b>1.5</b> 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 $\mu$ S)	Turbidity (NTUs)	Gals. Removed	Observations
1024	66.5	7.0	1355	278	.5	cloudy
	well dewatered @ .8 gallons DTW = 28.39					
1315	68.3	6.7	1246	162	—	
	* Insufficient water to fill ambers					

Did well dewater?  Yes    No      Gallons actually evacuated: **.8**

Sampling Date: **5/27/08**    Sampling Time: **1315**    Depth to Water: **28.43 (2hrs)**

Sample I.D.: **MW-9**      Laboratory: STL    Other: **Cyl Science**

Analyzed for: TPH-G BTEX MTBE TPH-D    Other: **See COC**

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 #: <b>080527-WL1</b>	Site: <b>8999 San Ramon Rd</b>
Sampler: <b>WL</b>	Date: <b>5/27/06</b>
Well I.D.: <b>MW-11</b>	Well Diameter: <b>2</b> 3 4 6 8
Total Well Depth (TD): <b>28.80</b>	Depth to Water (DTW): <b>dry</b>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]:	

Purge Method: <del>Bailer</del> <del>Disposable Bailer</del> <del>Positive Air Displacement</del> <del>Electric Submersible</del>	<del>Water</del> <del>Peristaltic</del> <del>Extraction Pump</del> Other _____	Sampling Method: <del>Bailer</del> <del>Disposable Bailer</del> <del>Extraction Port</del> <del>Dedicated Tubing</del> Other: _____
--	---	---

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

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

Time	Temp (°F)	pH	Cond. (mS or µS)	Turbidity (NTUs)	Gals. Removed	Observations
						<b>Unable to Purge or sample well dry</b>

Did well dewater? Yes No	Gallons actually evacuated: _____
Sampling Date: _____	Sampling Time: _____
Sample I.D.: _____	Depth to Water: _____
Laboratory: STL Other _____	
Analyzed for: TPH-G BTEX MTBE TPH-D Other: _____	
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 #: <b>080527-WL1</b>	Site: <b>8999 San Ramon Rd</b>
Sampler: <b>WL1</b>	Date: <b>5/27/08</b>
Well I.D.: <b>MW-11B</b>	Well Diameter: 2 3 <b>4</b> 6 8 _____
Total Well Depth (TD): <b>38.46</b>	Depth to Water (DTW): <b>30.83</b>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <b>PVC</b> Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: <b>32.36</b>	

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

<b>4.9</b> (Gals.) X <b>3</b> = <b>14.7</b> Gals.	<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														
I Case Volume	Specified Volumes	Calculated Volume															

Time	Temp (°F)	pH	Cond. (mS or $\mu$ S)	Turbidity (NTUs)	Gals. Removed	Observations
<b>0920</b>	<b>67.0</b>	<b>7.2</b>	<b>717</b>	<b>167</b>	<b>4.9</b>	
<b>0921</b>	<b>67.2</b>	<b>6.8</b>	<b>715</b>	<b>82</b>	<b>9.8</b>	
<b>0922</b>	<b>67.2</b>	<b>6.8</b>	<b>731.7</b>	<b>76</b>	<b>14.7</b>	

Did well dewater? Yes  No  Gallons actually evacuated: **14.7**

Sampling Date: **5/27/08** Sampling Time: **0925** Depth to Water: **32.12**

Sample I.D.: **MW-11B** Laboratory: STL Other **Cal Science**

Analyzed for: TPH-G BTEX MTBE TPH-D Other: **See col**

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.

---

GROUNDWATER SAMPLING SPECIALISTS

SINCE 1985

June 17, 2008

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

Second Quarter 2008 Groundwater Monitoring at  
Shell-branded Service Station  
8999 San Ramon Road  
Dublin, CA

Monitoring performed on May 27, 2008

---

Groundwater Monitoring Report **080527-WL-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/tm

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.

---

## 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

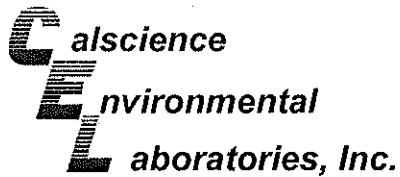
All readings are obtained with either Corning or Myron-L meters (e.g. Corning ORP-65 or a Myron-L Ultrameter GP). The meter is cleaned between wells as described above. The meter is calibrated at the start of each day according to the instruction manual.

## 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**



June 12, 2008

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

Subject: **Calscience Work Order No.: 08-05-2464**  
Client Reference: **8999 San Ramon Road, Dublin, CA**

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 5/29/2008 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.

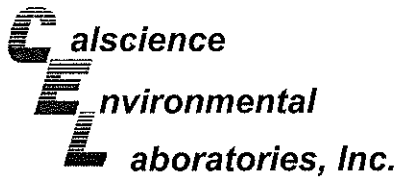
Sincerely,

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 "Michael Ninokata".





## Analytical Report



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

Date Received: 05/29/08  
Work Order No: 08-05-2464  
Preparation: EPA 3510C  
Method: EPA 8015B

Project: 8999 San Ramon Road, Dublin, CA

Page 1 of 3

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-5	08-05-2464-1-E	05/27/08 14:25	Aqueous	GC 15	05/29/08	05/31/08 22:34	080529B12

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

Parameter	Result	RL	DF	Qual	Units
Diesel Range Organics	83	50	1		ug/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
Decachlorobiphenyl	87	68-140			

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-5B	08-05-2464-2-E	05/27/08 14:05	Aqueous	GC 15	05/29/08	05/31/08 23:10	080529B12

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

Parameter	Result	RL	DF	Qual	Units
Diesel Range Organics	ND	50	1		ug/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
Decachlorobiphenyl	81	68-140			

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-5C	08-05-2464-3-D	05/27/08 13:50	Aqueous	GC 15	05/29/08	05/31/08 23:44	080529B12

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

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

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-7	08-05-2464-4-D	05/27/08 13:30	Aqueous	GC 15	05/29/08	06/01/08 00:20	080529B12

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

Parameter	Result	RL	DF	Qual	Units
Diesel Range Organics	ND	50	1		ug/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
Decachlorobiphenyl	73	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: 05/29/08  
 Work Order No: 08-05-2464  
 Preparation: EPA 3510C  
 Method: EPA 8015B

Project: 8999 San Ramon Road, Dublin, CA

Page 2 of 3

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-8	08-05-2464-5-E	05/27/08 13:00	Aqueous	GC 15	05/29/08	06/01/08 00:55	080529B12

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

Parameter	Result	RL	DF	Qual	Units
Diesel Range Organics	ND	50	1		ug/L
Surrogates:	REC (%)	Control Limits		Qual	
Decachlorobiphenyl	86	68-140			

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-8B	08-05-2464-6-E	05/27/08 12:45	Aqueous	GC 15	05/29/08	06/01/08 01:32	080529B12

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

Parameter	Result	RL	DF	Qual	Units
Diesel Range Organics	ND	50	1		ug/L
Surrogates:	REC (%)	Control Limits		Qual	
Decachlorobiphenyl	87	68-140			

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-11B	08-05-2464-8-E	05/27/08 09:25	Aqueous	GC 15	05/29/08	06/02/08 15:47	080529B12

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

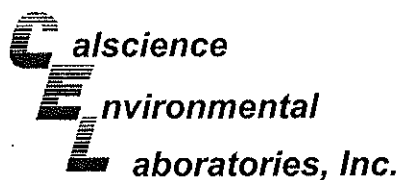
Parameter	Result	RL	DF	Qual	Units
Diesel Range Organics	ND	50	1		ug/L
Surrogates:	REC (%)	Control Limits		Qual	
Decachlorobiphenyl	83	68-140			

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-12	08-05-2464-9-E	05/27/08 12:30	Aqueous	GC 15	05/29/08	06/01/08 02:42	080529B12

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

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

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



## Analytical Report



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

Date Received: 05/29/08  
Work Order No: 08-05-2464  
Preparation: EPA 3510C  
Method: EPA 8015B

Project: 8999 San Ramon Road, Dublin, CA

Page 3 of 3

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-12-211-439	N/A	Aqueous	GC 15	05/29/08	05/31/08 19:00	080529B12

Parameter	Result	RL	DF	Qual	Units
Diesel Range Organics	ND	50	1		ug/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
Decachlorobiphenyl	103	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: 05/29/08  
 Work Order No: 08-05-2464  
 Preparation: EPA 5030B  
 Method: LUFT GC/MS / EPA 8260B  
 Units: ug/L

Project: 8999 San Ramon Road, Dublin, 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-5	08-05-2464-1-B	05/27/08 14:25	Aqueous	GC/MS R	06/05/08	06/06/08 06:41	080605L02

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
TPPH	ND	50	1		Methyl-t-Butyl Ether (MTBE)	4.3	1.0	1	
Benzene	ND	0.50	1		Tert-Butyl Alcohol (TBA)	ND	10	1	
Ethylbenzene	ND	1.0	1		Diisopropyl Ether (DIPE)	ND	2.0	1	
Toluene	ND	1.0	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	1	
p/m-Xylene	ND	1.0	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	1	
o-Xylene	ND	1.0	1						
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
1,4-Bromofluorobenzene	94	70-130			1,4-Bromofluorobenzene-TPPH	98	70-130		

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-5B	08-05-2464-2-B	05/27/08 14:05	Aqueous	GC/MS R	06/05/08	06/06/08 07:11	080605L02

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
TPPH	620	250	5		Methyl-t-Butyl Ether (MTBE)	590	5.0	5	
Benzene	ND	2.5	5		Tert-Butyl Alcohol (TBA)	ND	50	5	
Ethylbenzene	ND	5.0	5		Diisopropyl Ether (DIPE)	ND	10	5	
Toluene	ND	5.0	5		Ethyl-t-Butyl Ether (ETBE)	ND	10	5	
p/m-Xylene	ND	5.0	5		Tert-Amyl-Methyl Ether (TAME)	ND	10	5	
o-Xylene	ND	5.0	5						
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
1,4-Bromofluorobenzene	91	70-130			1,4-Bromofluorobenzene-TPPH	95	70-130		

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-5C	08-05-2464-3-B	05/27/08 13:50	Aqueous	GC/MS R	06/05/08	06/06/08 07:41	080605L02

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
TPPH	350	250	5		Methyl-t-Butyl Ether (MTBE)	290	5.0	5	
Benzene	ND	2.5	5		Tert-Butyl Alcohol (TBA)	ND	50	5	
Ethylbenzene	ND	5.0	5		Diisopropyl Ether (DIPE)	ND	10	5	
Toluene	ND	5.0	5		Ethyl-t-Butyl Ether (ETBE)	ND	10	5	
p/m-Xylene	ND	5.0	5		Tert-Amyl-Methyl Ether (TAME)	ND	10	5	
o-Xylene	ND	5.0	5						
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
1,4-Bromofluorobenzene	92	70-130			1,4-Bromofluorobenzene-TPPH	96	70-130		

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

## Analytical Report



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

Date Received: 05/29/08  
 Work Order No: 08-05-2464  
 Preparation: EPA 5030B  
 Method: LUFT GC/MS / EPA 8260B  
 Units: ug/L

Project: 8999 San Ramon Road, Dublin, 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-7	08-05-2464-4-B	05/27/08 13:30	Aqueous	GC/MS R	06/05/08	06/06/08 08:11	080605L02

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
TPPH	ND	50	1		Methyl-t-Butyl Ether (MTBE)	2.0	1.0	1	
Benzene	ND	0.50	1		Tert-Butyl Alcohol (TBA)	ND	10	1	
Ethylbenzene	ND	1.0	1		Diisopropyl Ether (DIPE)	ND	2.0	1	
Toluene	ND	1.0	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	1	
p/m-Xylene	ND	1.0	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	1	
o-Xylene	ND	1.0	1						
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
1,4-Bromofluorobenzene	93	70-130			1,4-Bromofluorobenzene-TPPH	97	70-130		

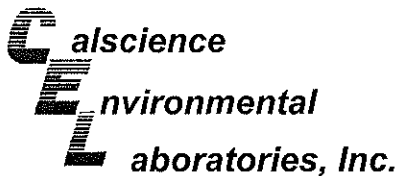
Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-8	08-05-2464-5-B	05/27/08 13:00	Aqueous	GC/MS R	06/05/08	06/06/08 09:42	080605L02

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
TPPH	58	50	1		Methyl-t-Butyl Ether (MTBE)	1.4	1.0	1	
Benzene	ND	0.50	1		Tert-Butyl Alcohol (TBA)	520	10	1	
Ethylbenzene	ND	1.0	1		Diisopropyl Ether (DIPE)	ND	2.0	1	
Toluene	ND	1.0	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	1	
p/m-Xylene	ND	1.0	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	1	
o-Xylene	ND	1.0	1						
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
1,4-Bromofluorobenzene	93	70-130			1,4-Bromofluorobenzene-TPPH	97	70-130		

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-8B	08-05-2464-6-B	05/27/08 12:45	Aqueous	GC/MS R	06/05/08	06/06/08 10:12	080605L02

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
TPPH	ND	50	1		Methyl-t-Butyl Ether (MTBE)	23	1.0	1	
Benzene	ND	0.50	1		Tert-Butyl Alcohol (TBA)	33	10	1	
Ethylbenzene	ND	1.0	1		Diisopropyl Ether (DIPE)	ND	2.0	1	
Toluene	ND	1.0	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	1	
p/m-Xylene	ND	1.0	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	1	
o-Xylene	ND	1.0	1						
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
1,4-Bromofluorobenzene	92	70-130			1,4-Bromofluorobenzene-TPPH	95	70-130		

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



Analytical Report



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

Date Received: 05/29/08  
Work Order No: 08-05-2464  
Preparation: EPA 5030B  
Method: LUFT GC/MS / EPA 8260B  
Units: ug/L

Project: 8999 San Ramon Road, Dublin, 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-9	08-05-2464-7-A	05/27/08 13:15	Aqueous	GC/MS R	06/05/08	06/06/08 10:43	080605L02

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
TPPH	ND	50	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	
Benzene	ND	0.50	1		Tert-Butyl Alcohol (TBA)	ND	10	1	
Ethylbenzene	ND	1.0	1		Diisopropyl Ether (DIPE)	ND	2.0	1	
Toluene	ND	1.0	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	1	
p/m-Xylene	ND	1.0	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	1	
o-Xylene	ND	1.0	1						
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
1,4-Bromofluorobenzene	91	70-130			1,4-Bromofluorobenzene-TPPH	94	70-130		

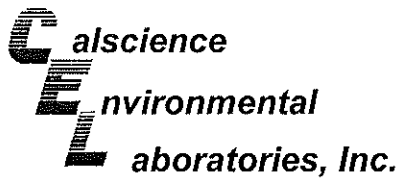
Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-11B	08-05-2464-8-A	05/27/08 09:25	Aqueous	GC/MS R	06/06/08	06/07/08 05:39	080606L02

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
TPPH	ND	50	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	
Benzene	ND	0.50	1		Tert-Butyl Alcohol (TBA)	ND	10	1	
Ethylbenzene	ND	1.0	1		Diisopropyl Ether (DIPE)	ND	2.0	1	
Toluene	ND	1.0	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	1	
p/m-Xylene	ND	1.0	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	1	
o-Xylene	ND	1.0	1						
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
1,4-Bromofluorobenzene	93	70-130			1,4-Bromofluorobenzene-TPPH	96	70-130		

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-12	08-05-2464-9-A	05/27/08 12:30	Aqueous	GC/MS R	06/06/08	06/07/08 06:10	080606L02

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
TPPH	ND	50	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	
Benzene	ND	0.50	1		Tert-Butyl Alcohol (TBA)	ND	10	1	
Ethylbenzene	ND	1.0	1		Diisopropyl Ether (DIPE)	ND	2.0	1	
Toluene	ND	1.0	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	1	
p/m-Xylene	ND	1.0	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	1	
o-Xylene	ND	1.0	1						
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
1,4-Bromofluorobenzene	93	70-130			1,4-Bromofluorobenzene-TPPH	96	70-130		

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



Analytical Report



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

Date Received: 05/29/08  
Work Order No: 08-05-2464  
Preparation: EPA 5030B  
Method: LUFT GC/MS / EPA 8260B  
Units: ug/L

Project: 8999 San Ramon Road, Dublin, CA

Page 4 of 4

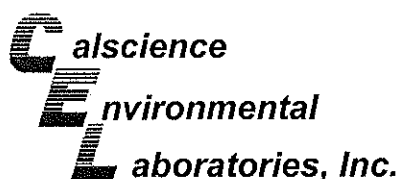
Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-12-715-427	N/A	Aqueous	GC/MS R	06/05/08	06/06/08 03:09	080605L02

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
TPPH	ND	50	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	
Benzene	ND	0.50	1		Tert-Butyl Alcohol (TBA)	ND	10	1	
Ethylbenzene	ND	1.0	1		Diisopropyl Ether (DIPE)	ND	2.0	1	
Toluene	ND	1.0	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	1	
p/m-Xylene	ND	1.0	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	1	
o-Xylene	ND	1.0	1						
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
1,4-Bromofluorobenzene	95	70-130			1,4-Bromofluorobenzene-TPPH	98	70-130		

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-12-715-429	N/A	Aqueous	GC/MS R	06/06/08	06/07/08 03:38	080606L02

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
TPPH	ND	50	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	
Benzene	ND	0.50	1		Tert-Butyl Alcohol (TBA)	ND	10	1	
Ethylbenzene	ND	1.0	1		Diisopropyl Ether (DIPE)	ND	2.0	1	
Toluene	ND	1.0	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	1	
p/m-Xylene	ND	1.0	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	1	
o-Xylene	ND	1.0	1						
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
1,4-Bromofluorobenzene	95	70-130			1,4-Bromofluorobenzene-TPPH	99	70-130		

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: 05/29/08  
Work Order No: 08-05-2464  
Preparation: EPA 5030B  
Method: LUFT GC/MS / EPA 8260B

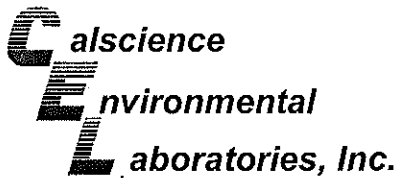
Project 8999 San Ramon Road, Dublin, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
MW-7	Aqueous	GC/MS R	06/05/08	06/06/08	080605S02

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	110	110	70-130	1	0-30	
Ethylbenzene	108	108	70-130	0	0-30	
Toluene	110	110	70-130	0	0-30	
p/m-Xylene	109	107	70-130	2	0-30	
o-Xylene	110	109	70-130	1	0-30	
Methyl-t-Butyl Ether (MTBE)	110	110	70-130	0	0-30	
Tert-Butyl Alcohol (TBA)	107	106	70-130	0	0-30	
Diisopropyl Ether (DIPE)	105	105	70-130	0	0-30	
Ethyl-t-Butyl Ether (ETBE)	113	113	70-130	0	0-30	
Tert-Amyl-Methyl Ether (TAME)	116	118	70-130	1	0-30	
Ethanol	94	97	70-130	3	0-30	

RPD - Relative Percent Difference, CL - Control Limit





## Quality Control - Spike/Spike Duplicate



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

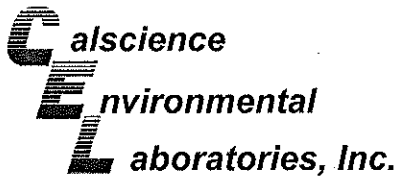
Date Received: 05/29/08  
Work Order No: 08-05-2464  
Preparation: EPA 5030B  
Method: LUFT GC/MS / EPA 8260B

Project 8999 San Ramon Road, Dublin, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
08-05-2582-3	Aqueous	GC/MS R	06/06/08	06/07/08	080606S02

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	109	109	70-130	0	0-30	
Ethylbenzene	109	108	70-130	1	0-30	
Toluene	110	110	70-130	0	0-30	
p/m-Xylene	108	106	70-130	1	0-30	
o-Xylene	110	109	70-130	1	0-30	
Methyl-t-Butyl Ether (MTBE)	109	111	70-130	1	0-30	
Tert-Butyl Alcohol (TBA)	106	104	70-130	2	0-30	
Diisopropyl Ether (DIPE)	99	99	70-130	1	0-30	
Ethyl-t-Butyl Ether (ETBE)	111	113	70-130	2	0-30	
Tert-Amyl-Methyl Ether (TAME)	118	119	70-130	1	0-30	
Ethanol	94	91	70-130	3	0-30	

RPD - Relative Percent Difference, CL - Control Limit



Quality Control - LCS/LCS Duplicate



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

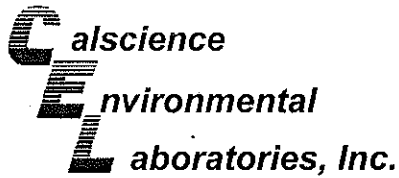
Date Received: N/A  
 Work Order No: 08-05-2464  
 Preparation: EPA 3510C  
 Method: EPA 8015B

Project: 8999 San Ramon Road, Dublin, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-211-439	Aqueous	GC 15	05/29/08	05/31/08	080529B12

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Diesel Range Organics	91	93	75-117	2	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

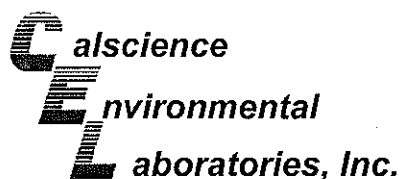
Date Received: N/A  
Work Order No: 08-05-2464  
Preparation: EPA 5030B  
Method: LUFT GC/MS / EPA 8260B

Project: 8999 San Ramon Road, Dublin, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-715-427	Aqueous	GC/MS R	06/05/08	06/06/08	080605L02

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
TPPH	94	93	65-135	1	0-30	
Benzene	109	109	70-130	1	0-30	
Ethylbenzene	108	107	70-130	1	0-30	
Toluene	110	109	70-130	1	0-30	
p/m-Xylene	108	108	70-130	1	0-30	
o-Xylene	109	110	70-130	0	0-30	
Methyl-t-Butyl Ether (MTBE)	111	112	70-130	1	0-30	
Tert-Butyl Alcohol (TBA)	104	106	70-130	2	0-30	
Diisopropyl Ether (DIPE)	104	104	70-130	0	0-30	
Ethyl-t-Butyl Ether (ETBE)	116	114	70-130	2	0-30	
Tert-Amyl-Methyl Ether (TAME)	117	118	70-130	1	0-30	
Ethanol	98	96	70-130	3	0-30	

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: 08-05-2464  
Preparation: EPA 5030B  
Method: LUFT GC/MS / EPA 8260B

Project: 8999 San Ramon Road, Dublin, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-715-429	Aqueous	GC/MS R	06/06/08	06/07/08	080606L02

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
TPPH	97	95	65-135	3	0-30	
Benzene	108	108	70-130	0	0-30	
Ethylbenzene	108	108	70-130	0	0-30	
Toluene	110	109	70-130	1	0-30	
p/m-Xylene	107	107	70-130	0	0-30	
o-Xylene	109	110	70-130	0	0-30	
Methyl-t-Butyl Ether (MTBE)	110	110	70-130	0	0-30	
Tert-Butyl Alcohol (TBA)	97	100	70-130	3	0-30	
Diisopropyl Ether (DIPE)	98	98	70-130	0	0-30	
Ethyl-t-Butyl Ether (ETBE)	115	115	70-130	0	0-30	
Tert-Amyl-Methyl Ether (TAME)	118	117	70-130	1	0-30	
Ethanol	89	92	70-130	3	0-30	

RPD - Relative Percent Difference , CL - Control Limit



Work Order Number: 08-05-2464

<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.

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 5 6 5 9 9 5**

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

CHECK IF NO INCIDENT # APPLIES:

DATE: **5/27/08**

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

SAMPLING COMPANY: **Bialne Tech Services** LOG CODE: **BTSS**

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

PROJECT CONTACT (Photocopy or PDF Reports): **Michael Ninokata**

TELEPHONE: (408)573-0555 FAX: (408)573-7771 E-MAIL: **mninokata@bialnetech.com**

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

LA - RWQCB REPORT FORMAT  UST AGENCY:

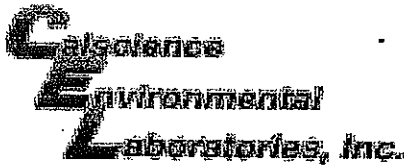
SPECIAL INSTRUCTIONS OR NOTES:  
 SHELL CONTRACT RATE APPLIES  
 STATE REIMBURSEMENT RATE APPLIES  
 EDD NOT NEEDED  
 RECEIPT VERIFICATION REQUESTED

Run TPH-d w/Silica Gel Clean Up

LAB USE ONLY	Field Sample Identification	SAMPLING		MATRIX	PRESERVATIVE					NO. OF CONT.	REQUESTED ANALYSIS												TEMPERATURE ON RECEIPT °C	Container PID Readings or Laboratory Notes			
		DATE	TIME		HCL	HNO3	H2SO4	NONE	OTHER		TPH - Purgeable (8260B)	TPH - Extractable (8015M)	BTX (8260B)	5 Oxygenates (8260B)	MTBE (8260B)	TBA (8260B)	DIPE (8260B)	TAME (8260B)	ETBE (8260B)	1,2 DCA (8260B)	EDB (8260B)	Ethanol (8260B)			Methanol (8015M)		
1	MW-5	5/27	1425	W	3			2	5	X	X	X	X														
2	MW-5B		1405		3			2	5	X	X	X	X														
3	MW-5C		1350		3			2	5	X	X	X	X														
4	MW-7		1330		3			1	4	X	X	X	X														
5	MW-8		1300		3			2	5	X	X	X	X														
6	MW-8B		1245		3			2	5	X	X	X	X														
7	MW-9		1315		3				3	X	X	X	X														
8	MW-11B		0925		3			2	5	X	X	X	X														
9	MW-12		1230		3			2	5	X	X	X	X														

Relinquished by (Signature): <i>[Signature]</i>	Received by (Signature): <i>[Signature]</i> (Sample Custodian)	Date: <b>5/27/08</b>	Time: <b>1810</b>
Relinquished by (Signature): <i>[Signature]</i> (Sample Custodian)	Received by (Signature): <i>[Signature]</i> Tom O'Malley CEL	Date: <b>5/28/08</b>	Time: <b>1430</b>
Relinquished by (Signature): <i>[Signature]</i> TO GSO 5/28/08 509658424	Received by (Signature): <i>[Signature]</i>	Date: <b>5/29/08</b>	Time: <b>1030</b>

06/2006 Revision



WORK ORDER #: 08 - 05 - 2464

Cooler 1 of 1

SAMPLE RECEIPT FORM

CLIENT: Blaine Tech

DATE: 5/29/08

TEMPERATURE - SAMPLES RECEIVED BY:

CALSCIENCE COURIER:

- Chilled, cooler with temperature blank provided.
Chilled, cooler without temperature blank.
Chilled and placed in cooler with wet ice.
Ambient and placed in cooler with wet ice.
Ambient temperature.
°C Temperature blank.

LABORATORY (Other than Calscience Courier):

- 3.6 °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.