May 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: FIRST QUARTER 2008 GROUNDWATER MONITORING REPORT
Shell-Branded Service Station
8999 San Ramon Road
Dublin, California

DELTA

Dear Mr. Wickham:

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

a member of: Inogen Environmental Alliance

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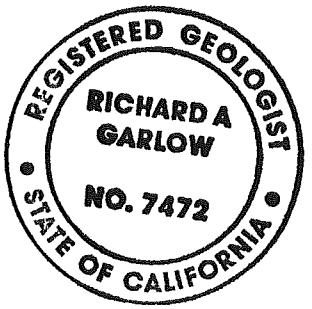
If you have any questions regarding this site, please contact Mr. Richard Garlow (DELTA) at (408) 826-1880 or Mr. Denis Brown (SHELL) at (707) 865-0251.

Sincerely,
Delta Consultants

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



Attachment: First 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 (FIRST - 2008):

1. Quarterly groundwater monitoring and sampling. Develop new wells. Submitted quarterly report.

WORK PROPOSED FOR NEXT QUARTER (SECOND - 2008):

1. Quarterly groundwater monitoring and sampling. Submit quarterly report.
2. Destroy seven on site monitoring wells, provide support with station renovation as requested.

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):	☐ Yes ☒ No
Cumulative SPH Recovered to Date:	NA
SPH Recovered This Quarter:	NA
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:	23.60 feet to 34.25 feet below top of well casing (2/15/08)
Groundwater Gradient:	Southeast at 0.06 ft/ft.
Current Agency Correspondence:	NA
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-5, MW-7, and MW-9 contained insufficient water for sampling. Well MW-11 was dry.

ATTACHED:

- Table 1 – Well Concentrations
- Figure 1 – Site Location Map
- Figure 2 – Groundwater Elevation Map
- Figure 3 – Hydrocarbon Distribution in Groundwater Map
- Appendix A – Field Data Sheets
- Appendix B – Field Procedures
- Appendix C – Laboratory Report and Chain-of-Custody Documentation
- Appendix D – Well Development Data

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-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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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-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
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**

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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-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-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-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
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-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

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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-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-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-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**
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**

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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-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-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
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-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-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**

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.

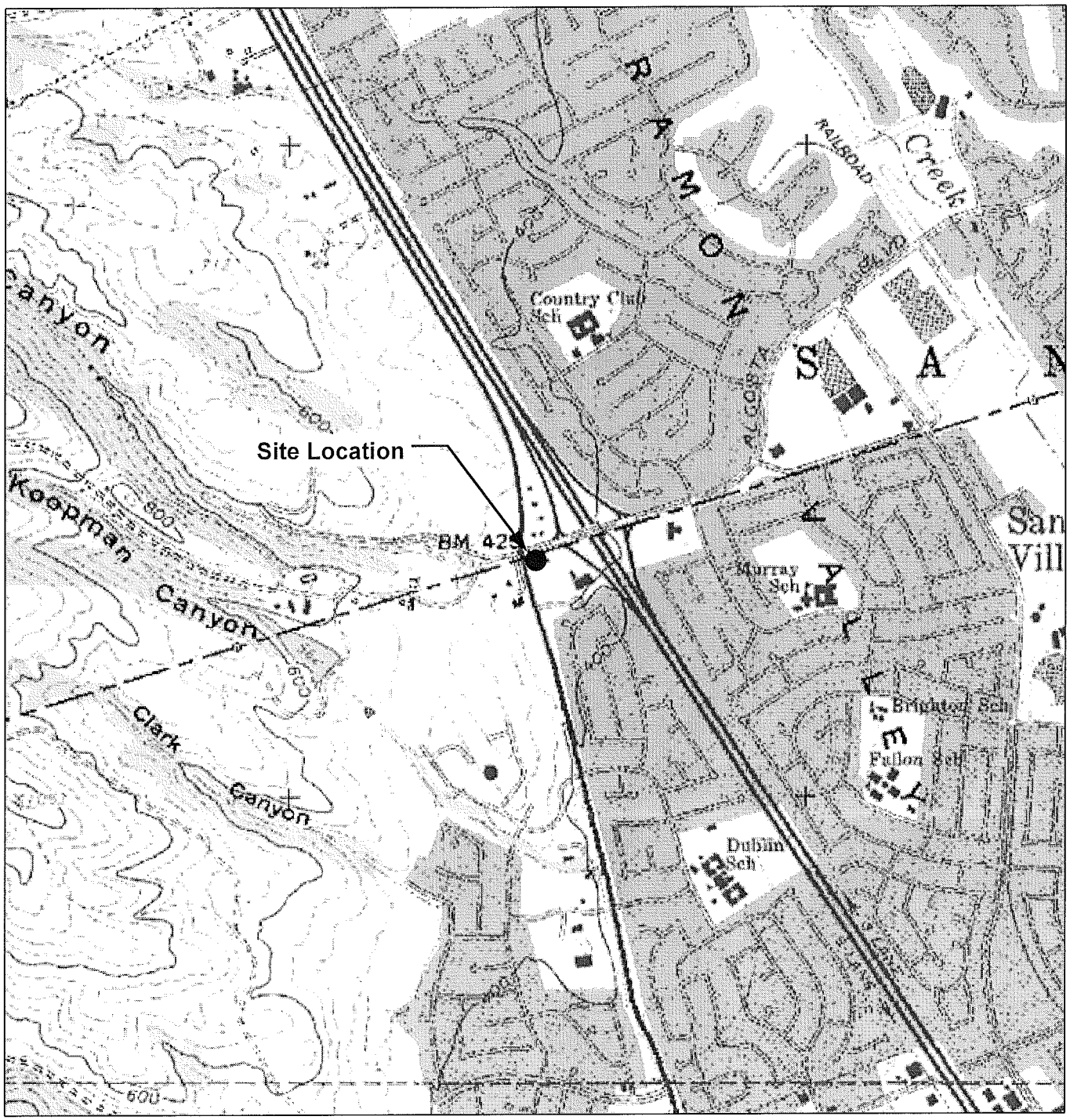
f = Analyzed by EPA Method 8015B (M).

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

North

QUADRANGLE LOCATION

0 1,300 2,600

Scale, Feet

FIGURE 1

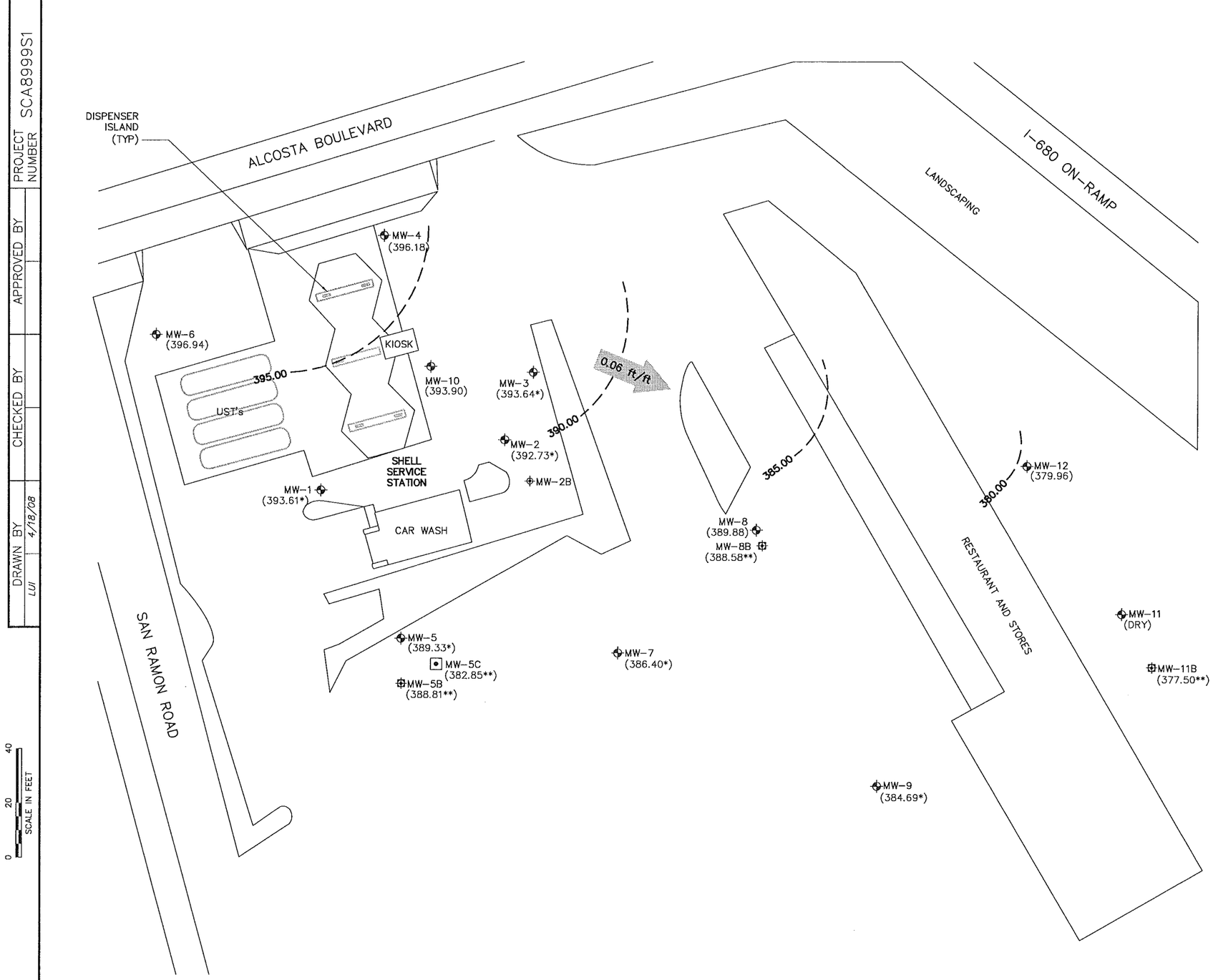
SITE LOCATION MAP

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

PROJECT NO. SJ89-99S-1.2005	DRAWN BY V. F. 12/9/04
FILE NO. SJ89-99S-1.2004	PREPARED BY VF
REVISION NO.	REVIEWED BY

Delta
Environmental
Consultants, Inc.

PROJECT NUMBER	APPROVED BY	CHECKED BY	DRAWN BY
SCA8999S1			LUI 4/18/08



LEGEND

MW-1 ⊕	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=5.00 FEET
0.06 ft/ft	APPROXIMATE GROUNDWATER GRADIENT DIRECTION (ft/ft)
**	B AND C LEVEL WELLS NOT USED IN CONTOURING
*	INSUFFICIENT WATER FOR SAMPLING DATA NOT USED IN CONTOURING
DRY	WELL DRY, NOT SAMPLED

DELTA CONSULTANTS

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

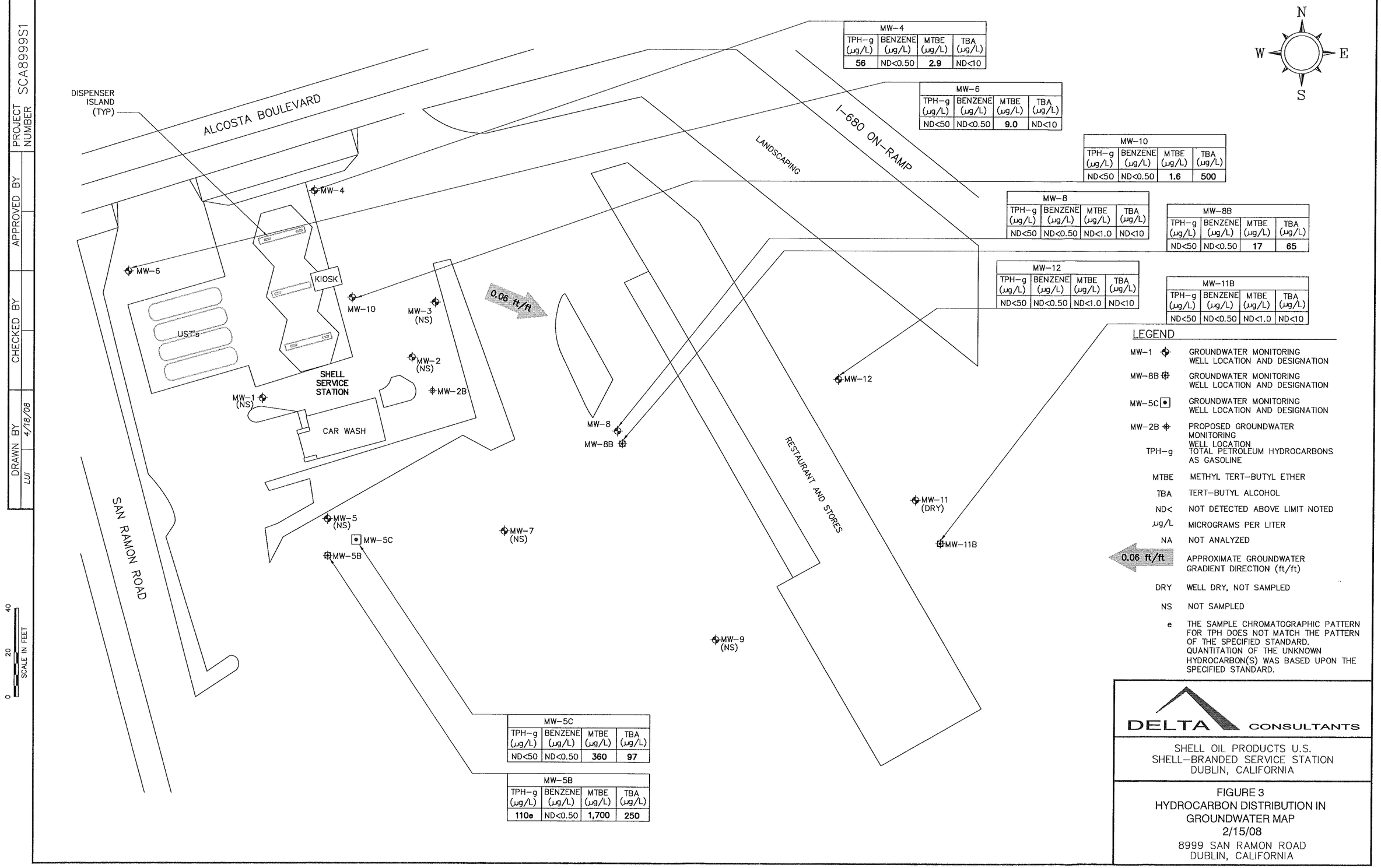
FIGURE 2
GROUNDWATER ELEVATION MAP

2/15/08

8999 SAN RAMON ROAD
DUBLIN, CALIFORNIA

Y:_She Sites\8\8999 San Ramon Road\2008-05-XX_1Q08 GWM Report\FIGURES (8999 SAN RAMON)_1Q08 GMR.dwg, FIGURE 2, 4/24/2008 10:15:26 AM, RICOH Aficio MP 5500 PCL 6, 1:0.996289, 7, 7

PROJECT NUMBER	APPROVED BY	CHECKED BY	DRAWN BY
SCA8999S1			LUI 4/18/08



MW-4			
TPH-g (µg/L)	BENZENE (µg/L)	MTBE (µg/L)	TBA (µg/L)
56	ND<0.50	**2.9**	ND<10

MW-6			
TPH-g (µg/L)	BENZENE (µg/L)	MTBE (µg/L)	TBA (µg/L)
ND<50	ND<0.50	**9.0**	ND<10

MW-10			
TPH-g (µg/L)	BENZENE (µg/L)	MTBE (µg/L)	TBA (µg/L)
ND<50	ND<0.50	**1.6**	**500**

MW-8			
TPH-g (µg/L)	BENZENE (µg/L)	MTBE (µg/L)	TBA (µg/L)
ND<50	ND<0.50	ND<1.0	ND<10

MW-8B			
TPH-g (µg/L)	BENZENE (µg/L)	MTBE (µg/L)	TBA (µg/L)
ND<50	ND<0.50	**17**	**65**

MW-12			
TPH-g (µg/L)	BENZENE (µg/L)	MTBE (µg/L)	TBA (µg/L)
ND<50	ND<0.50	ND<1.0	ND<10

MW-11B			
TPH-g (µg/L)	BENZENE (µg/L)	MTBE (µg/L)	TBA (µg/L)
ND<50	ND<0.50	ND<1.0	ND<10

MW-5C			
TPH-g (µg/L)	BENZENE (µg/L)	MTBE (µg/L)	TBA (µg/L)
ND<50	ND<0.50	**360**	**97**

MW-5B			
TPH-g (µg/L)	BENZENE (µg/L)	MTBE (µg/L)	TBA (µg/L)
110e	ND<0.50	**1,700**	**250**

LEGEND

MW-1	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
µg/L	MICROGRAMS PER LITER
NA	NOT ANALYZED
0.06 ft/ft	APPROXIMATE GROUNDWATER GRADIENT DIRECTION (ft/ft)
DRY	WELL DRY, NOT SAMPLED
NS	NOT SAMPLED
e	THE SAMPLE CHROMATOGRAPHIC PATTERN FOR TPH DOES NOT MATCH THE PATTERN OF THE SPECIFIED STANDARD. QUANTITATION OF THE UNKNOWN HYDROCARBON(S) WAS BASED UPON THE SPECIFIED STANDARD.

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

FIGURE 3
HYDROCARBON DISTRIBUTION IN GROUNDWATER MAP
2/15/08
8999 SAN RAMON ROAD
DUBLIN, CALIFORNIA

Y:_She Sites\8\8999 San Ramon Road\2008-05-XX_1Q08 GWM Report\FIGURES (8999 SAN RAMON)_1Q08 QMR.dwg, FIGURE 3, 4/24/2008 10:15:30 AM, RICOH Aficio MP 5500 PCL 6, 1:0.996252, 7, 7

APPENDIX A

FIELD DATA SHEETS

SHELL WELLHEAD INSPECTION FORM

(FOR SAMPLE TECHNICIAN)

Site Address 8999 San Ramon Rd Dublin Date 2-15-08

Job Number 080215-DW-1 Technician DW Page 1 of 1

Well ID	Well Inspected - No Corrective Action Required	Well Box Meets Compliance Requirements *See Below	Water Bailed From Wellbox	Cap Replaced	Lock Replaced	Well Not Inspected (explain in notes)	New Deficiency Identified	Previously Identified Deficiency Persists	Notes
MW-1	X	X							
MW-2	X	X							
MW-3	X	X							
MW-4		X						X	Apron deteriorating
MW-5		No tag						X	
MW-5B		No tag						X	
MW-5C		No tag						X	
MW-6	X	X						X	
MW-7		No tag						X	
MW-8		No tag						X	
MW-8B		No tag						X	
MW-9		No tag						X	
MW-10		No tag						X	
MW-11		No tag					X	X	Christy box
MW-11B		No tag						X	
MW-12		No tag						X	annular seal has fallen ~1'

*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 # 080215-DW-1 Date 2-15-08 Client Shell

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-1	0903	4					26.45	26.72		
MW-2	0844	4					26.15	26.75		
MW-3	0857	4					23.60	24.30		
MW-4	0848	4					24.34	26.44		
MW-5	0833	4					27.55	28.45		
MW-5B	0832	4					28.85	66.77		
MW-5C	0831	4					34.25	99.19		
MW-6	0841	4					25.56	28.47		
MW-7	0824	4					27.95	28.45		
MW-8	0810	4					24.66	28.80		
MW-8B	0812	4					26.23	68.65		
MW-9	0818	4					28.00	28.78		
MW-10	0853	4					25.58	28.78		
MW-11	0750	2					Dry	28.46		
MW-11B	0755	4					31.53	38.15		
MW-12	0801	4					31.22	38.66	↓	

SHELL WELL MONITORING DATA SHEET

BTS #: 080215-OW-1	Site: 8999 San Ramon Rd
Sampler: OW	Date: 2-15-08
Well I.D.: MW-1	Well Diameter: 2 3 (4) 6 8 ___
Total Well Depth (TD): 26.72	Depth to Water (DTW): 26.45
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]:	

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

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

_____(Gals.) X 3 = _____ Gals.
1 Case Volume | Specified Volumes | Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius² * 0.163

Time	Temp (°F)	pH	Cond. (mS or (µS))	Turbidity (NTUs)	Gals. Removed	Observations
	Insufficient water. No samples					

Did well dewater? Yes No Gallons actually evacuated:

Sampling Date: 2-15-08 Sampling Time: Depth to Water:

Sample I.D.: MW-1 Laboratory: STL Other CalScience

Analyzed for: (TPH-G) (BTEX) MTBE (TPH-D) Other: Oxy's

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 #: 080215-DW-1	Site: 8999 San Ramon Rd
Sampler: DW	Date: 2-15-08
Well I.D.: MW-2	Well Diameter: 2 3 (4) 6 8 ____
Total Well Depth (TD): 26.75	Depth to Water (DTW): 26.15
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]:	

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

Sampling Method: X Bailer / Disposable Bailer / Extraction Port / Dedicated Tubing / Other: ____

____ (Gals.) X 3 = ____ Gals.
1 Case Volume | Specified Volumes | Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius² * 0.163

Time	Temp (°F)	pH	Cond. (mS or (µS))	Turbidity (NTUs)	Gals. Removed	Observations
	Insufficient water. No samples					

Did well dewater? Yes No Gallons actually evacuated:

Sampling Date: 2-15-08 Sampling Time: Depth to Water:

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

Analyzed for: (TPH-G) (BTEX) MTBE (TPH-D) Other: Oxy's

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 #: 080215-OW-1	Site: 8999 San Ramon Rd
Sampler: OW	Date: 2-15-08
Well I.D.: MW-3	Well Diameter: 2 3 (4) 6 8 ____
Total Well Depth (TD): 24.30	Depth to Water (DTW): 23.60
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]:	

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

Sampling Method: Bailer / Disposable Bailer / Extraction Port / Dedicated Tubing / Other: ____

____(Gals.) X 3 = ____ Gals.
1 Case Volume | Specified Volumes | Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius² * 0.163

Time	Temp (°F)	pH	Cond. (mS or (µS))	Turbidity (NTUs)	Gals. Removed	Observations
	Insufficient water. No samples					

Did well dewater? Yes No Gallons actually evacuated:

Sampling Date: 2-15-08 Sampling Time: Depth to Water:

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

Analyzed for: (TPH-G) (BTEX) MTBE (TPH-D) Other: Oxy's

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 #: 080215-DW-1	Site: 8999 San Ramon Rd
Sampler: DW	Date: 2-15-08
Well I.D.: MW-4	Well Diameter: 2 3 (4) 6 8 ____
Total Well Depth (TD): 26.44	Depth to Water (DTW): 24.34
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]: 24.76	

Purge Method: X Bailer; Disposable Bailer; Positive Air Displacement; Electric Submersible; Waterra; Peristaltic; Extraction Pump; Other____

Sampling Method: X Bailer; Disposable Bailer; Extraction Port; Dedicated Tubing; Other: ____

1.4 (Gals.) X	3	=	4.2 Gals.
1 Case Volume	Specified Volumes		Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius² * 0.163

Time	Temp (°F)	pH	Cond. (mS or (µS))	Turbidity (NTUs)	Gals. Removed	Observations
1149	67.1	6.4	677	392	1.4	gray/odor
1151	67.8	6.4	689	581	2.8	" "
1152	67.9	6.4	695	494	4.2	" "

Did well dewater? Yes (No) Gallons actually evacuated: 4.2

Sampling Date: 2-15-08 Sampling Time: 1200 Depth to Water: 24.76

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

Analyzed for: (TPH-G) (BTEX) MTBE (TPH-D) Other: Oxy's

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 #: 080215-DW-1	Site: 8999 San Ramon Rd
Sampler: DW	Date: 2-15-08
Well I.D.: MW-5	Well Diameter: 2 3 (4) 6 8 ___
Total Well Depth (TD): 28.45	Depth to Water (DTW): 27.55
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]:	

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

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

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

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius² * 0.163

Time	Temp (°F)	pH	Cond. (mS or (µS))	Turbidity (NTUs)	Gals. Removed	Observations
	Insufficient water. No samples.					

Did well dewater? Yes No Gallons actually evacuated:

Sampling Date: 2-15-08 Sampling Time: Depth to Water:

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

Analyzed for: (TPH-G) (BTEX) MTBE (TPH-D) Other: Oxy's

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 #: 080215-OW-1	Site: 8999 San Ramon Rd
Sampler: OW	Date: 2-15-08
Well I.D.: MW-5B	Well Diameter: 2 3 (4) 6 8 ____
Total Well Depth (TD): 66.77	Depth to Water (DTW): 28.85
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]: 36.43	

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

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

24.6 (Gals.) X 3 = 73.8 Gals.		
1 Case Volume	Specified Volumes	Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius² * 0.163

Time	Temp (°F)	pH	Cond. (mS or (µS))	Turbidity (NTUs)	Gals. Removed	Observations
1009	64.2	7.1	1124	467	24.6	
1014	66.4	7.0	1113	385	49.2	
1019	66.2	7.0	1107	>1000	73.8	

Did well dewater? Yes (No) Gallons actually evacuated: 73.8

Sampling Date: 2-15-08 Sampling Time: 1345 Depth to Water: 28.85

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

Analyzed for: (TPH-G) (BTEX) MTBE (TPH-D) Other: Oxy's

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 #: 080215-OW-1	Site: 8999 San Ramon Rd
Sampler: OW	Date: 2-15-08
Well I.D.: MW-5C	Well Diameter: 2 3 (4) 6 8 ____
Total Well Depth (TD): 99.19	Depth to Water (DTW): 34.25
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]: 47.23	

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

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

42.2 (Gals.) X 3 = 126.6 Gals.
1 Case Volume | Specified Volumes | Calculated Volume

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

Time	Temp (°F)	pH	Cond. (mS or (µS))	Turbidity (NTUs)	Gals. Removed	Observations
0958	64.3	7.4	1131	586	42.2	.
	well dewatered @ 45 gls.					
1335	65.6	7.3	1198	74	—	

Did well dewater? (Yes) No Gallons actually evacuated: 45

Sampling Date: 2-15-08 Sampling Time: 1335 Depth to Water: 69.22

Sample I.D.: MW-5C Laboratory: STL Other CalScience

Analyzed for: (TPH-G) (BTEX) MTBE (TPH-D) Other: Oxy's

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 #: 080215-OW-1	Site: 8999 San Ramon Rd
Sampler: OW	Date: 2-15-08
Well I.D.: MW-6	Well Diameter: 2 3 (4) 6 8 ____
Total Well Depth (TD): 28.47	Depth to Water (DTW): 25.56
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]: 26.14	

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

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

1.9 (Gals.) X 3 = 5.7 Gals.
1 Case Volume | Specified Volumes | Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius² * 0.163

Time	Temp (°F)	pH	Cond. (mS or (µS))	Turbidity (NTUs)	Gals. Removed	Observations
1057	65.5	6.6	943	123	1.9	
	well dewatered @ 2 gls.					
1358	66.0	6.7	1005	42	—	

Did well dewater? (Yes) No Gallons actually evacuated: 2

Sampling Date: 2-15-08 Sampling Time: 1358 Depth to Water: 25.56

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

Analyzed for: (TPH-G) (BTEX) MTBE (TPH-D) Other: Oxy's

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 #: 080215-OW-1	Site: 8999 San Ramon Rd
Sampler: OW	Date: 2-15-08
Well I.D.: MW-7	Well Diameter: 2 3 (4) 6 8 ____
Total Well Depth (TD): 28.45	Depth to Water (DTW): 27.95
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]:	

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

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

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

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius² * 0.163

Time	Temp (°F)	pH	Cond. (mS or (µS))	Turbidity (NTUs)	Gals. Removed	Observations
	Insufficient water. No samples					

Did well dewater? Yes / No Gallons actually evacuated:

Sampling Date: 2-15-08 Sampling Time: Depth to Water:

Sample I.D.: MW-7 Laboratory: STL Other CalScience

Analyzed for: (TPH-G) (BTEX) MTBE (TPH-D) Other: Oxy's

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 #: 080215-OW-1	Site: 8999 San Ramon Rd
Sampler: OW	Date: 2-15-08
Well I.D.: MW-8	Well Diameter: 2 3 (4) 6 8 ____
Total Well Depth (TD): 28.80	Depth to Water (DTW): 24.66
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]: 25.48	

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

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

2.7 (Gals.) X 3 = 8.1 Gals.
1 Case Volume | Specified Volumes | Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius² * 0.163

Time	Temp (°F)	pH	Cond. (mS or (µS))	Turbidity (NTUs)	Gals. Removed	Observations
0940	65.9	6.7	827	64	2.7	
	well dewatered @ 4 gls.					
1043	65.5	6.8	810	126	-	

Did well dewater? (Yes) No Gallons actually evacuated: 4

Sampling Date: 2-15-08 Sampling Time: 1043 Depth to Water: 25.30

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

Analyzed for: (TPH-G) (BTEX) MTBE (TPH-D) Other: Oxy's

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 #: 080215-DW-1	Site: 8999 San Ramon Rd
Sampler: DW	Date: 2-15-08
Well I.D.: MW-8B	Well Diameter: 2 3 (4) 6 8 ____
Total Well Depth (TD): 68.65	Depth to Water (DTW): 26.23
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]: 34.71	

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

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

27.6 (Gals.) X	3	=	82.8 Gals.
1 Case Volume	Specified Volumes		Calculated Volume

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

Time	Temp (°F)	pH	Cond. (mS or (µS))	Turbidity (NTUs)	Gals. Removed	Observations
0928	64.5	6.9	924	141	27.6	
0934	65.2	6.9	916	>1000	55.2	
	well	dewatered @ 60 gls				
1030	65.1	7.0	922	340		

Did well dewater? (Yes) No Gallons actually evacuated: 60

Sampling Date: 2-15-08 Sampling Time: 1030 Depth to Water: 29.55

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

Analyzed for: (TPH-G) (BTEX) MTBE (TPH-D) Other: Oxy's

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 #: 080215-OW-1	Site: 8999 San Ramon Rd
Sampler: OW	Date: 2-15-08
Well I.D.: MW-9	Well Diameter: 2 3 (4) 6 8 ____
Total Well Depth (TD): 28.78	Depth to Water (DTW): 28.00
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]:	

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

Sampling Method: X Bailer / Disposable Bailer / Extraction Port / Dedicated Tubing / Other: ____

____(Gals.) X 3 = ____ Gals.
1 Case Volume | Specified Volumes | Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius² * 0.163

Time	Temp (°F)	pH	Cond. (mS or (µS))	Turbidity (NTUs)	Gals. Removed	Observations
	Insufficient water. No samples					

Did well dewater? Yes No Gallons actually evacuated:

Sampling Date: 2-15-08 Sampling Time: Depth to Water:

Sample I.D.: MW-9 Laboratory: STL Other CalScience

Analyzed for: (TPH-G) (BTEX) MTBE (TPH-D) Other: Oxy's

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 #: 080215-OW-1	Site: 8999 San Ramon Rd
Sampler: OW	Date: 2-15-08
Well I.D.: MW-10	Well Diameter: 2 3 (4) 6 8 ____
Total Well Depth (TD): 28.78	Depth to Water (DTW): 25.58
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]: 26.22	

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

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

2.1 (Gals.) X	3	=	6.3 Gals.
1 Case Volume	Specified Volumes		Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius² * 0.163

Time	Temp (°F)	pH	Cond. (mS or (µS))	Turbidity (NTUs)	Gals. Removed	Observations
1212	65.7	6.6	843	254	2.1	gray/odor
	well dewatered @ 2.5 g/s.					
1410	66.3	6.6	871	43	—	

Did well dewater? (Yes) No Gallons actually evacuated: 2.5

Sampling Date: 2-15-08 Sampling Time: 1410 Depth to Water:

Sample I.D.: MW-10 Laboratory: STL Other CalScience

Analyzed for: (TPH-G) (BTEX) MTBE (TPH-D) Other: Oxy's

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 #: 080215-OW-1	Site: 8999 San Ramon Rd
Sampler: OW	Date: 2-15-08
Well I.D.: MW-11	Well Diameter: (2) 3 4 6 8 ____
Total Well Depth (TD): 28.46	Depth to Water (DTW): Dry
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]:	

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

Sampling Method: X Bailer / Disposable Bailer / Extraction Port / Dedicated Tubing / Other:

____(Gals.) X 3 = ____ Gals.
1 Case Volume | Specified Volumes | Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius² * 0.163

Time	Temp (°F)	pH	Cond. (mS or µS)	Turbidity (NTUs)	Gals. Removed	Observations
	Well dry. No samples					

Did well dewater? Yes / No Gallons actually evacuated:

Sampling Date: 2-15-08 Sampling Time: Depth to Water:

Sample I.D.: MW-11 Laboratory: STL Other CalScience

Analyzed for: (TPH-G) (BTEX) MTBE (TPH-D) Other: Oxy's

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 #: 080215-OW-1	Site: 8999 San Ramon Rd
Sampler: OW	Date: 2-15-08
Well I.D.: MW-11B	Well Diameter: 2 3 (4) 6 8 ____
Total Well Depth (TD): 38.15	Depth to Water (DTW): 31.53
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]: 32.85	

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

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

(OW) 8.3 4.3 (Gals.) X 3 = 12.9 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	radius² * 0.163

Time	Temp (°F)	pH	Cond. (mS or (µS))	Turbidity (NTUs)	Gals. Removed	Observations
1106	65.4	6.9	626	233	4.3	
1107	66.5	6.9	663	>1000	8.6	
1108	67.0	6.9	638	>1000	12.9	

Did well dewater? Yes (No) Gallons actually evacuated: 12.9

Sampling Date: 2-15-08 Sampling Time: 1113 Depth to Water: 32.60

Sample I.D.: MW-11B Laboratory: STL Other CalScience

Analyzed for: (TPH-G) (BTEX) MTBE (TPH-D) Other: Oxy's

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 #: 080215-OW-1	Site: 8999 San Ramon Rd
Sampler: OW	Date: 2-15-08
Well I.D.: MW-12	Well Diameter: 2 3 (4) 6 8 ____
Total Well Depth (TD): 38.66	Depth to Water (DTW): 31.82
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]: 32.70	

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

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

4.8 (Gals.) X	3	=	14.4 Gals.
1 Case Volume	Specified Volumes		Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius² * 0.163

Time	Temp (°F)	pH	Cond. (mS or (µS))	Turbidity (NTUs)	Gals. Removed	Observations
1124	65.7	6.9	665	>1000	4.8	
1126	66.7	6.9	716	>1000	9.6	
	well	dewatered @ 10	gls.			
1134	66.3	6.9	649	>1000	—	

Did well dewater? (Yes) No Gallons actually evacuated: 10

Sampling Date: 2-15-08 Sampling Time: 1134 Depth to Water: 32.70

Sample I.D.: MW-12 Laboratory: STL Other CalScience

Analyzed for: (TPH-G) (BTEX) MTBE (TPH-D) Other: Oxy's

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

BLAINE
TECH SERVICES INC.

GROUNDWATER SAMPLING SPECIALISTS
SINCE 1985

March 7, 2008

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

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

Monitoring performed on February 7 and 15, 2008

Groundwater Monitoring Report **080215-DW-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/ju

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 dewaters 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

Calscience
Environmental
Laboratories, Inc.

February 26, 2008

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

Subject: **Calscience Work Order No.:** **08-02-1250**
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 2/16/2008 and analyzed in accordance with the attached chain-of-custody.

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

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

Sincerely,

Calscience Environmental
Laboratories, Inc.
Jessie Kim
Project Manager

Calscience Environmental Laboratories, Inc.

Analytical Report

Blaine Tech Services, Inc.		Date Received:	02/16/08
1680 Rogers Avenue		Work Order No:	08-02-1250
San Jose, CA 95112-1105		Preparation:	EPA 3510C
		Method:	EPA 8015B

Project: 8999 San Ramon Road, Dublin, CA

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-4	08-02-1250-1-G	02/15/08 12:00	Aqueous	GC 23	02/18/08	02/21/08 03:13	080218B16

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	111	68-140	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-5B	08-02-1250-2-G	02/15/08 13:45	Aqueous	GC 23	02/18/08	02/21/08 03:23	080218B16

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	120	68-140	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-5C	08-02-1250-3-G	02/15/08 13:35	Aqueous	GC 23	02/18/08	02/21/08 03:32	080218B16

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	98	68-140	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-6	08-02-1250-4-G	02/15/08 13:58	Aqueous	GC 23	02/18/08	02/21/08 03:41	080218B16

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	78	68-140	

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

Calscience Environmental Laboratories, Inc.

Analytical Report

Blaine Tech Services, Inc.	Date Received:	02/16/08
1680 Rogers Avenue	Work Order No:	08-02-1250
San Jose, CA 95112-1105	Preparation:	EPA 3510C
	Method:	EPA 8015B

Project: 8999 San Ramon Road, Dublin, CA

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-8	**08-02-1250-5-G**	**02/15/08 10:43**	**Aqueous**	**GC 23**	**02/18/08**	**02/21/08 03:51**	**080218B16**

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	119	68-140	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-8B	**08-02-1250-6-F**	**02/15/08 10:30**	**Aqueous**	**GC 23**	**02/18/08**	**02/21/08 04:00**	**080218B16**

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	88	68-140	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-10	**08-02-1250-7-G**	**02/15/08 14:10**	**Aqueous**	**GC 23**	**02/18/08**	**02/21/08 04:09**	**080218B16**

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	69	68-140	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-11B	**08-02-1250-8-G**	**02/15/08 11:13**	**Aqueous**	**GC 23**	**02/18/08**	**02/21/08 04:18**	**080218B16**

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	93	68-140	

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

Calscience Environmental Laboratories, Inc.

Analytical Report

Blaine Tech Services, Inc.	Date Received:	02/16/08
1680 Rogers Avenue	Work Order No:	08-02-1250
San Jose, CA 95112-1105	Preparation:	EPA 3510C
	Method:	EPA 8015B

Project: 8999 San Ramon Road, Dublin, CA

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-12	**08-02-1250-9-G**	**02/15/08 11:34**	**Aqueous**	**GC 23**	**02/18/08**	**02/21/08 04:28**	**080218B16**

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	

Method Blank	099-12-211-216	N/A	Aqueous	GC 23	02/18/08	02/21/08 02:45	080218B16

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

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	90	68-140	

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

Calscience Environmental Laboratories, Inc.

Analytical Report

Blaine Tech Services, Inc.	Date Received:	02/16/08
1680 Rogers Avenue	Work Order No:	08-02-1250
San Jose, CA 95112-1105	Preparation:	EPA 5030B
	Method:	EPA 8015B (M)

Project: 8999 San Ramon Road, Dublin, CA

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-4	**08-02-1250-1-D**	**02/15/08 12:00**	**Aqueous**	**GC 5**	**02/19/08**	**02/19/08 13:09**	**080218B02**

Parameter	Result	RL	DF	Qual	Units
TPH as Gasoline	56	50	1		ug/L
Surrogates:	**REC (%)**	**Control Limits**		**Qual**	
1,4-Bromofluorobenzene	91	38-134			

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-5B	**08-02-1250-2-E**	**02/15/08 13:45**	**Aqueous**	**GC 5**	**02/19/08**	**02/19/08 14:52**	**080218B02**

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

Parameter	Result	RL	DF	Qual	Units
TPH as Gasoline	110	50	1		ug/L
Surrogates:	**REC (%)**	**Control Limits**		**Qual**	
1,4-Bromofluorobenzene	91	38-134			

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-5C	**08-02-1250-3-E**	**02/15/08 13:35**	**Aqueous**	**GC 5**	**02/19/08**	**02/19/08 15:26**	**080218B02**

Parameter	Result	RL	DF	Qual	Units
TPH as Gasoline	ND	50	1		ug/L
Surrogates:	**REC (%)**	**Control Limits**		**Qual**	
1,4-Bromofluorobenzene	90	38-134			

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-6	**08-02-1250-4-D**	**02/15/08 13:58**	**Aqueous**	**GC 5**	**02/19/08**	**02/19/08 12:00**	**080218B02**

Parameter	Result	RL	DF	Qual	Units
TPH as Gasoline	ND	50	1		ug/L
Surrogates:	**REC (%)**	**Control Limits**		**Qual**	
1,4-Bromofluorobenzene	89	38-134			

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

Calscience Environmental Laboratories, Inc.

Analytical Report

Blaine Tech Services, Inc.	Date Received:	02/16/08
1680 Rogers Avenue	Work Order No:	08-02-1250
San Jose, CA 95112-1105	Preparation:	EPA 5030B
	Method:	EPA 8015B (M)

Project: 8999 San Ramon Road, Dublin, CA

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-8	**08-02-1250-5-E**	**02/15/08 10:43**	**Aqueous**	**GC 5**	**02/19/08**	**02/19/08 12:34**	**080218B02**

Parameter	Result	RL	DF	Qual	Units
TPH as Gasoline	ND	50	1		ug/L
Surrogates:	**REC (%)**	**Control Limits**		**Qual**	
1,4-Bromofluorobenzene	88	38-134			

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-8B	**08-02-1250-6-E**	**02/15/08 10:30**	**Aqueous**	**GC 5**	**02/19/08**	**02/19/08 16:00**	**080218B02**

Parameter	Result	RL	DF	Qual	Units
TPH as Gasoline	ND	50	1		ug/L
Surrogates:	**REC (%)**	**Control Limits**		**Qual**	
1,4-Bromofluorobenzene	88	38-134			

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-10	**08-02-1250-7-D**	**02/15/08 14:10**	**Aqueous**	**GC 5**	**02/19/08**	**02/19/08 16:35**	**080218B02**

Parameter	Result	RL	DF	Qual	Units
TPH as Gasoline	ND	50	1		ug/L
Surrogates:	**REC (%)**	**Control Limits**		**Qual**	
1,4-Bromofluorobenzene	89	38-134			

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-11B	**08-02-1250-8-D**	**02/15/08 11:13**	**Aqueous**	**GC 5**	**02/19/08**	**02/19/08 17:09**	**080218B02**

Parameter	Result	RL	DF	Qual	Units
TPH as Gasoline	ND	50	1		ug/L
Surrogates:	**REC (%)**	**Control Limits**		**Qual**	
1,4-Bromofluorobenzene	90	38-134			

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

Calscience Environmental Laboratories, Inc.

Analytical Report

Blaine Tech Services, Inc.	Date Received:	02/16/08
1680 Rogers Avenue	Work Order No:	08-02-1250
San Jose, CA 95112-1105	Preparation:	EPA 5030B
	Method:	EPA 8015B (M)

Project: 8999 San Ramon Road, Dublin, CA

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-12	**08-02-1250-9-D**	**02/15/08 11:34**	**Aqueous**	**GC 5**	**02/19/08**	**02/19/08 17:44**	**080218B02**

Parameter	Result	RL	DF	Qual	Units
TPH as Gasoline	ND	50	1		ug/L
Surrogates:	REC (%)	Control Limits		Qual	
1,4-Bromofluorobenzene	88	38-134			

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-436-1,490**	**N/A**	**Aqueous**	**GC 5**	**02/18/08**	**02/19/08 04:33**	**080218B02**

Parameter	Result	RL	DF	Qual	Units
TPH as Gasoline	ND	50	1		ug/L
Surrogates:	REC (%)	Control Limits		Qual	
1,4-Bromofluorobenzene	81	38-134			

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

Calscience Environmental Laboratories, Inc.

Analytical Report

Blaine Tech Services, Inc.	Date Received:	02/16/08
1680 Rogers Avenue	Work Order No:	08-02-1250
San Jose, CA 95112-1105	Preparation:	EPA 5030B
	Method:	EPA 8260B
	Units:	ug/L

Project: 8999 San Ramon Road, Dublin, CA

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-4	**08-02-1250-1-A**	**02/15/08 12:00**	**Aqueous**	**GC/MS CC**	**02/24/08**	**02/24/08 16:20**	**080224L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.50	1		Methyl-t-Butyl Ether (MTBE)	2.9	1.0	1	
Ethylbenzene	ND	1.0	1		Tert-Butyl Alcohol (TBA)	ND	10	1	
Toluene	ND	1.0	1		Diisopropyl Ether (DIPE)	ND	2.0	1	
p/m-Xylene	ND	1.0	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	1	
o-Xylene	ND	1.0	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	128	74-140			1,2-Dichloroethane-d4	137	74-146		
Toluene-d8	99	88-112			1,4-Bromofluorobenzene	89	74-110		

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-5B	**08-02-1250-2-A**	**02/15/08 13:45**	**Aqueous**	**GC/MS CC**	**02/24/08**	**02/24/08 16:48**	**080224L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.50	1		Methyl-t-Butyl Ether (MTBE)	1700	20	20	
Ethylbenzene	ND	1.0	1		Tert-Butyl Alcohol (TBA)	250	20	2	
Toluene	ND	1.0	1		Diisopropyl Ether (DIPE)	ND	2.0	1	
p/m-Xylene	ND	1.0	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	1	
o-Xylene	ND	1.0	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	125	74-140			1,2-Dichloroethane-d4	135	74-146		
Toluene-d8	98	88-112			1,4-Bromofluorobenzene	88	74-110		

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-5C	**08-02-1250-3-A**	**02/15/08 13:35**	**Aqueous**	**GC/MS CC**	**02/24/08**	**02/24/08 17:17**	**080224L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.50	1		Methyl-t-Butyl Ether (MTBE)	360	5.0	5	
Ethylbenzene	ND	1.0	1		Tert-Butyl Alcohol (TBA)	97	10	1	
Toluene	ND	1.0	1		Diisopropyl Ether (DIPE)	ND	2.0	1	
p/m-Xylene	ND	1.0	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	1	
o-Xylene	ND	1.0	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	121	74-140			1,2-Dichloroethane-d4	136	74-146		
Toluene-d8	102	88-112			1,4-Bromofluorobenzene	85	74-110		

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

Calscience Environmental Laboratories, Inc.

Analytical Report

Blaine Tech Services, Inc.	Date Received:	02/16/08
1680 Rogers Avenue	Work Order No:	08-02-1250
San Jose, CA 95112-1105	Preparation:	EPA 5030B
	Method:	EPA 8260B
	Units:	ug/L

Project: 8999 San Ramon Road, Dublin, CA

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-6	**08-02-1250-4-A**	**02/15/08 13:58**	**Aqueous**	**GC/MS CC**	**02/24/08**	**02/24/08 17:46**	**080224L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.50	1		Methyl-t-Butyl Ether (MTBE)	9.0	1.0	1	
Ethylbenzene	ND	1.0	1		Tert-Butyl Alcohol (TBA)	ND	10	1	
Toluene	ND	1.0	1		Diisopropyl Ether (DIPE)	ND	2.0	1	
p/m-Xylene	ND	1.0	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	1	
o-Xylene	ND	1.0	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	127	74-140			1,2-Dichloroethane-d4	139	74-146		
Toluene-d8	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
MW-8	**08-02-1250-5-A**	**02/15/08 10:43**	**Aqueous**	**GC/MS CC**	**02/24/08**	**02/24/08 18:14**	**080224L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.50	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	
Ethylbenzene	ND	1.0	1		Tert-Butyl Alcohol (TBA)	ND	10	1	
Toluene	ND	1.0	1		Diisopropyl Ether (DIPE)	ND	2.0	1	
p/m-Xylene	ND	1.0	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	1	
o-Xylene	ND	1.0	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	127	74-140			1,2-Dichloroethane-d4	138	74-146		
Toluene-d8	101	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
MW-8B	**08-02-1250-6-A**	**02/15/08 10:30**	**Aqueous**	**GC/MS CC**	**02/24/08**	**02/24/08 18:43**	**080224L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.50	1		Methyl-t-Butyl Ether (MTBE)	17	1.0	1	
Ethylbenzene	ND	1.0	1		Tert-Butyl Alcohol (TBA)	65	10	1	
Toluene	ND	1.0	1		Diisopropyl Ether (DIPE)	ND	2.0	1	
p/m-Xylene	ND	1.0	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	1	
o-Xylene	ND	1.0	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	128	74-140			1,2-Dichloroethane-d4	134	74-146		
Toluene-d8	98	88-112			1,4-Bromofluorobenzene	85	74-110		

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

Calscience Environmental Laboratories, Inc.

Analytical Report

Blaine Tech Services, Inc.	Date Received:	02/16/08
1680 Rogers Avenue	Work Order No:	08-02-1250
San Jose, CA 95112-1105	Preparation:	EPA 5030B
	Method:	EPA 8260B
	Units:	ug/L

Project: 8999 San Ramon Road, Dublin, CA

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-10	**08-02-1250-7-A**	**02/15/08 14:10**	**Aqueous**	**GC/MS CC**	**02/24/08**	**02/24/08 19:11**	**080224L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.50	1		Methyl-t-Butyl Ether (MTBE)	1.6	1.0	1	
Ethylbenzene	ND	1.0	1		Tert-Butyl Alcohol (TBA)	500	10	1	
Toluene	ND	1.0	1		Diisopropyl Ether (DIPE)	ND	2.0	1	
p/m-Xylene	ND	1.0	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	1	
o-Xylene	ND	1.0	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	126	74-140			1,2-Dichloroethane-d4	134	74-146		
Toluene-d8	103	88-112			1,4-Bromofluorobenzene	84	74-110		

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-11B	**08-02-1250-8-A**	**02/15/08 11:13**	**Aqueous**	**GC/MS CC**	**02/24/08**	**02/24/08 19:40**	**080224L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.50	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	
Ethylbenzene	ND	1.0	1		Tert-Butyl Alcohol (TBA)	ND	10	1	
Toluene	ND	1.0	1		Diisopropyl Ether (DIPE)	ND	2.0	1	
p/m-Xylene	ND	1.0	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	1	
o-Xylene	ND	1.0	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	130	74-140			1,2-Dichloroethane-d4	140	74-146		
Toluene-d8	99	88-112			1,4-Bromofluorobenzene	84	74-110		

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-12	**08-02-1250-9-A**	**02/15/08 11:34**	**Aqueous**	**GC/MS CC**	**02/24/08**	**02/24/08 20:09**	**080224L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.50	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	
Ethylbenzene	ND	1.0	1		Tert-Butyl Alcohol (TBA)	ND	10	1	
Toluene	ND	1.0	1		Diisopropyl Ether (DIPE)	ND	2.0	1	
p/m-Xylene	ND	1.0	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	1	
o-Xylene	ND	1.0	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	127	74-140			1,2-Dichloroethane-d4	136	74-146		
Toluene-d8	100	88-112			1,4-Bromofluorobenzene	83	74-110		

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

Calscience Environmental Laboratories, Inc.

Analytical Report

Blaine Tech Services, Inc.	Date Received:	02/16/08
1680 Rogers Avenue	Work Order No:	08-02-1250
San Jose, CA 95112-1105	Preparation:	EPA 5030B
	Method:	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	**099-10-006-24,540**	**N/A**	**Aqueous**	**GC/MS CC**	**02/24/08**	**02/24/08 12:31**	**080224L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.50	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	
Ethylbenzene	ND	1.0	1		Tert-Butyl Alcohol (TBA)	ND	10	1	
Toluene	ND	1.0	1		Diisopropyl Ether (DIPE)	ND	2.0	1	
p/m-Xylene	ND	1.0	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	1	
o-Xylene	ND	1.0	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	118	74-140			1,2-Dichloroethane-d4	125	74-146		
Toluene-d8	101	88-112			1,4-Bromofluorobenzene	86	74-110		

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-10-006-24,546**	**N/A**	**Aqueous**	**GC/MS CC**	**02/25/08**	**02/25/08 12:30**	**080225L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.50	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	
Ethylbenzene	ND	1.0	1		Tert-Butyl Alcohol (TBA)	ND	10	1	
Toluene	ND	1.0	1		Diisopropyl Ether (DIPE)	ND	2.0	1	
p/m-Xylene	ND	1.0	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	1	
o-Xylene	ND	1.0	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	116	74-140			1,2-Dichloroethane-d4	125	74-146		
Toluene-d8	99	88-112			1,4-Bromofluorobenzene	87	74-110		

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

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

Blaine Tech Services, Inc.	Date Received: 02/16/08
1680 Rogers Avenue	Work Order No: 08-02-1250
San Jose, CA 95112-1105	Preparation: EPA 5030B
	Method: EPA 8015B (M)

Project 8999 San Ramon Road, Dublin, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
08-02-1150-13	**Aqueous**	**GC 5**	**02/18/08**	**02/19/08**	**080218S02**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
TPH as Gasoline	92	93	68-122	2	0-18	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

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

Date Received: 02/16/08
Work Order No: 08-02-1250
Preparation: EPA 5030B
Method: EPA 8260B

Project 8999 San Ramon Road, Dublin, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
08-02-1214-1	**Aqueous**	**GC/MS CC**	**02/24/08**	**02/24/08**	**080224S01**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	106	105	88-118	1	0-7	
Carbon Tetrachloride	105	101	67-145	3	0-11	
Chlorobenzene	108	107	88-118	1	0-7	
1,2-Dibromoethane	111	112	70-130	2	0-30	
1,2-Dichlorobenzene	108	109	86-116	0	0-8	
1,1-Dichloroethene	96	90	70-130	6	0-25	
Ethylbenzene	112	107	70-130	5	0-30	
Toluene	114	109	87-123	5	0-8	
Trichloroethene	104	105	79-127	1	0-10	
Vinyl Chloride	115	113	69-129	2	0-13	
Methyl-t-Butyl Ether (MTBE)	101	103	71-131	2	0-13	
Tert-Butyl Alcohol (TBA)	111	113	36-168	2	0-45	
Diisopropyl Ether (DIPE)	95	96	81-123	1	0-9	
Ethyl-t-Butyl Ether (ETBE)	100	101	72-126	2	0-12	
Tert-Amyl-Methyl Ether (TAME)	103	105	72-126	2	0-12	
Ethanol	109	107	53-149	2	0-31	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

Blaine Tech Services, Inc.	Date Received:	02/16/08
1680 Rogers Avenue	Work Order No:	08-02-1250
San Jose, CA 95112-1105	Preparation:	EPA 5030B
	Method:	EPA 8260B

Project 8999 San Ramon Road, Dublin, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
08-02-1251-1	**Aqueous**	**GC/MS CC**	**02/25/08**	**02/25/08**	**080225S01**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	109	109	88-118	0	0-7	
Carbon Tetrachloride	111	109	67-145	2	0-11	
Chlorobenzene	109	111	88-118	2	0-7	
1,2-Dibromoethane	113	115	70-130	1	0-30	
1,2-Dichlorobenzene	111	112	86-116	1	0-8	
1,1-Dichloroethene	99	99	70-130	1	0-25	
Ethylbenzene	112	114	70-130	1	0-30	
Toluene	115	116	87-123	1	0-8	
Trichloroethene	107	110	79-127	3	0-10	
Vinyl Chloride	118	119	69-129	1	0-13	
Methyl-t-Butyl Ether (MTBE)	111	113	71-131	2	0-13	
Tert-Butyl Alcohol (TBA)	134	134	36-168	0	0-45	
Diisopropyl Ether (DIPE)	101	104	81-123	2	0-9	
Ethyl-t-Butyl Ether (ETBE)	107	110	72-126	2	0-12	
Tert-Amyl-Methyl Ether (TAME)	110	112	72-126	2	0-12	
Ethanol	146	138	53-149	5	0-31	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

Blaine Tech Services, Inc.	Date Received:	N/A
1680 Rogers Avenue	Work Order No:	08-02-1250
San Jose, CA 95112-1105	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
099-12-211-216	Aqueous	GC 23	02/18/08	02/21/08	080218B16

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Diesel Range Organics	89	88	75-117	0	0-13	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

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

Date Received:	N/A
Work Order No:	08-02-1250
Preparation:	EPA 5030B
Method:	EPA 8015B (M)

Project: 8999 San Ramon Road, Dublin, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-436-1,490	**Aqueous**	**GC 5**	**02/18/08**	**02/19/08**	**080218B02**

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
TPH as Gasoline	87	88	78-120	1	0-10	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

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

Date Received: N/A
Work Order No: 08-02-1250
Preparation: EPA 5030B
Method: EPA 8260B

Project: 8999 San Ramon Road, Dublin, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-10-006-24,540	Aqueous	GC/MS CC	02/24/08	02/24/08	080224L01

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	106	108	84-120	1	0-8	
Carbon Tetrachloride	107	103	63-147	3	0-10	
Chlorobenzene	107	108	89-119	0	0-7	
1,2-Dibromoethane	107	108	80-120	1	0-20	
1,2-Dichlorobenzene	110	110	89-119	0	0-9	
1,1-Dichloroethene	99	98	77-125	1	0-16	
Ethylbenzene	114	113	80-120	1	0-20	
Toluene	112	113	83-125	1	0-9	
Trichloroethene	106	106	89-119	0	0-8	
Vinyl Chloride	116	115	63-135	1	0-13	
Methyl-t-Butyl Ether (MTBE)	101	102	82-118	2	0-13	
Tert-Butyl Alcohol (TBA)	99	109	46-154	10	0-32	
Diisopropyl Ether (DIPE)	98	98	81-123	0	0-11	
Ethyl-t-Butyl Ether (ETBE)	102	102	74-122	1	0-12	
Tert-Amyl-Methyl Ether (TAME)	101	102	76-124	1	0-10	
Ethanol	99	104	60-138	5	0-32	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

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

Date Received: N/A
Work Order No: 08-02-1250
Preparation: EPA 5030B
Method: EPA 8260B

Project: 8999 San Ramon Road, Dublin, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-10-006-24,546	Aqueous	GC/MS CC	02/25/08	02/25/08	080225L01

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	105	107	84-120	2	0-8	
Carbon Tetrachloride	104	104	63-147	1	0-10	
Chlorobenzene	109	109	89-119	0	0-7	
1,2-Dibromoethane	110	109	80-120	1	0-20	
1,2-Dichlorobenzene	109	112	89-119	2	0-9	
1,1-Dichloroethene	96	98	77-125	1	0-16	
Ethylbenzene	113	114	80-120	1	0-20	
Toluene	113	115	83-125	1	0-9	
Trichloroethene	105	107	89-119	2	0-8	
Vinyl Chloride	116	118	63-135	2	0-13	
Methyl-t-Butyl Ether (MTBE)	104	105	82-118	1	0-13	
Tert-Butyl Alcohol (TBA)	116	110	46-154	5	0-32	
Diisopropyl Ether (DIPE)	98	101	81-123	3	0-11	
Ethyl-t-Butyl Ether (ETBE)	102	107	74-122	5	0-12	
Tert-Amyl-Methyl Ether (TAME)	104	106	76-124	2	0-10	
Ethanol	104	118	60-138	12	0-32	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Glossary of Terms and Qualifiers

Work Order Number: 08-02-1250

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

Shell Oil Products Chain Of Custody Record

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

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

Print Bill To Contact Name: Denis Brown
INCIDENT # (ENV SERVICES): 97565965
☐ CHECK IF NO INCIDENT # APPLIES
PO #: | SAP #:
DATE: 2-15-08
PAGE: 1 of 1

SAMPLING COMPANY: Blaine Tech Services | LOG CODE: BTSS
ADDRESS: 1680 Rogers Ave, San Jose, CA 95112
PROJECT CONTACT (Hardcopy or PDF Report to): Michael Ninokata
TELEPHONE: (408)573-0555 | FAX: (408)573-7771 | E-MAIL: mninokata@blainetech.com

SITE ADDRESS: Street and City: 8999 San Ramon Road, Dublin | State: CA | GLOBAL ID NO.: T0600159797
EDF DELIVERABLE TO (Name, Company, Office Location): Jon Suing, Delta, Monrovia Office | PHONE NO.: 626.256.6662 | E-MAIL: jsuing@deltaenv.com
CONSULTANT PROJECT NO.: 080215-DW-1 | BTS #
SAMPLER NAME(S) (Print): Dave Walter
LAB USE ONLY: 08-02-1250

TURNAROUND TIME (CALENDAR DAYS):
☑ STANDARD (14 DAY) ☐ 5 DAYS ☐ 3 DAYS ☐ 2 DAYS ☐ 24 HOURS ☐ RESULTS NEEDED ON WEEKEND
☐ LA - RWQCB REPORT FORMAT ☐ UST AGENCY:

SPECIAL INSTRUCTIONS OR NOTES :
Run TPH-d w/Silica Gel Clean Up

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

REQUESTED ANALYSIS

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	MATRIX	PRESERVATIVE HCL	HNO3	H2SO4	NONE	OTHER	NO. OF CONT.	TPH - Purgeable (8260B)	TPH - Extractable (8015M)	BTEX (8260B)	5 Oxygenates (8260B)	MTBE (8260B)	TBA (8260B)	DIPE (8260B)	TAME (8260B)	ETBE (8260B)	1,2 DCA (8260B)	EDB (8260B)	Ethanol (8260B)	Methanol (8015M)	Container PID Readings or Laboratory Notes
1	MW-4	2-15	1200	W	X					7	X	X	X	X										
2	MW-5B		1345							7	X	X	X	X										
3	MW-5C		1335							7	X	X	X	X										
4	MW-6		1358							7	X	X	X	X										
5	MW-8		1043							7	X	X	X	X										
6	MW-8B		1030							7	X	X	X	X										
7	MW-10		1410							7	X	X	X	X										
8	MW-11B		1113							7	X	X	X	X										
9	MW-12		1134							7	X	X	X	X										

TEMPERATURE ON RECEIPT C°

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
David C. Glatt	David C. Glatt (Sample Custodian)	2-15-08	1600
(Sample Custodian)		2/15/08	1655
(FedEx)		2/16/08	0900

05/2/06 Revision

105528164 PEEL OFF HERE

Calscience Environmental Laboratories, Inc.

WORK ORDER #: 08 - 02 - 1250

Cooler 1 of 1

SAMPLE RECEIPT FORM

CLIENT: Blaine Tech DATE: 2/16/08

TEMPERATURE – SAMPLES RECEIVED BY:

CALSCIENCE COURIER:

_____ Chilled, cooler with temperature blank provided.
_____ Chilled, cooler without temperature blank.
_____ Chilled and placed in cooler with wet ice.
_____ Ambient and placed in cooler with wet ice.
_____ Ambient temperature.

_____ °C Temperature blank.

LABORATORY (Other than Calscience Courier):

_____ °C Temperature blank.
2.8 °C IR thermometer.
_____ Ambient temperature.

Initial: HH

CUSTODY SEAL INTACT:

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

Initial: HH

SAMPLE CONDITION:

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

Initial: HH

COMMENTS:

APPENDIX D

WELL DEVELOPMENT DATA

SHELL WELLHEAD INSPECTION FORM

(FOR SAMPLE TECHNICIAN)

Site Address 8999 San Ramon Blvd Dublin Date 2-7-08

Job Number 080207-DW-1 Technician DW 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-5B		NO tag			X		X		
MW-5C		NO tag			X		X		
MW-8B		NO tag			X		X		
MW-11B		NO tag			X		X		
MW-12		NO tag			X		X		Annular seal dropping 1/2'

*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 # 080207-DW-1 Date 2-7-08 Client Shell

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-5B	1350	4					29.74	61.75		
MW-5C	0833	4					33.97	94.10		
MW-8B	0824	4					26.81	62.70		
MW-11B	1211	4					31.47	38.10		
MW-12	1326	4					31.10	38.40		

WELL DEVELOPMENT DATA SHEET

Project #: 080207-0W-1	Client: Shell
Developer: DW	Date Developed: 2-7-08
Well I.D. MW-11B 5B	Well Diameter: (circle one) 2 3 (4) 6
Total Well Depth: Before 61.75 After 66.90	Depth to Water: Before 29.74 After 47.70
Reason not developed:	If Free Product, thickness:
Additional Notations:	

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

20.1	X	10	=	201
1 Case Volume		Specified Volumes		gallons

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

Type of Installed Pump
Other equipment used 4" Surge block

TIME	TEMP (F)	pH	Cond. (mS or µS)	TURBIDITY (NTUs)	VOLUME REMOVED:	NOTATIONS:
1425	64.7	6.9	1337	>1000	20.1	Swabbed well = 15 min Brown/very silty
	Pump	clogged. Swabbed well another			5 min	
1505	64.4	6.9	1265	>1000	40.2	
	Larger sand particles clogging well. Swabbed 5 more min.					
1541	64.0	6.9	1196	>1000	60.3	
1549	64.6	7.0	1240	>1000	80.4	
1552	Well	dewatered @ 95 gal			DTW 61.63	DTB 67.12
0835	DTW=	29.07	DTB= 67.15		Swabbed well = 5 min	
0843	60.3	6.9	1093	>1000	100.5	Brown/silty
0847	63.2	7.0	1163	>1000	120.6	
0851	65.6	6.8	1176	>1000	140.7	Brown
0854	66.5	6.9	1005	>1000	160.8	Brown/silty
	well	dewatered @ 165 gls.				
Did Well Dewater? yes	If yes, note above.			Gallons Actually Evacuated:		201

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WELL DEVELOPMENT DATA SHEET

Well I.D. MW-5B	PAGE 2 OF 2
Project #: 080207-8w-1	Client: Shell

TIME	TEMP (F)	pH	Cond. (mS or µS)	TURBIDITY (NTUs)	VOLUME REMOVED:	NOTATIONS:
1106	DTW = 29.43		swabbed well		= 5 min	
1115	64.5	6.9	1694	>1000	180.9	Brown/silty
1119	65.6	6.8	1145	>1000	201.0	Hard bottom

WELL DEVELOPMENT DATA SHEET

Project #: 080207-DW-1	Client: Shell
Developer: DW	Date Developed: 2-8-08
Well I.D. ~~MW-5~~ (DW) MW-5C	Well Diameter: (circle one) 2 3 (4) 6 ___
Total Well Depth: Before 94.10 After 99.25	Depth to Water: Before 33.97 After ~~47.~~ (DW) 97.88
Reason not developed:	If Free Product, thickness:
Additional Notations:	

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

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

39.1	X	10	=	391
1 Case Volume		Specified Volumes		gallons

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

Type of Installed Pump ______
Other equipment used 4" surge block

TIME	TEMP (F)	pH	Cond. (mS or (µS))	TURBIDITY (NTUs)	VOLUME REMOVED:	NOTATIONS:
Pump	clogged	twice. Swabbed well	2 more times	(5 min)	~~39.1~~ (DW)	Swabbed well = 20 min Brown / very silty
1039	62.4	9.7	596	>1000	39.1	
	well	dewatered	@ 42 gls.			
1200	DTW =	92.20	DTB = 99.20			
1515	DTW = 88.13	Swabbed	well = 5 min			
1538	well	dewatered	@ 50 gls.		50	Hard bottom
Did Well Dewater? yes	If yes, note above.		Gallons Actually Evacuated:		50	

WELL DEVELOPMENT DATA SHEET

Project #: 080207-DW-1	Client: Shell
Developer: DW	Date Developed: 2-7-08
Well I.D. MW-8B	Well Diameter: (circle one) 2 3 (4) 6
Total Well Depth: Before 62.70 After 68.62	Depth to Water: Before 26.81 After 62.05
Reason not developed:	If Free Product, thickness:
Additional Notations:	

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

23.3	X	10	=	233
1 Case Volume		Specified Volumes		gallons

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

Type of Installed Pump _____
Other equipment used 4" surge block

TIME	TEMP (F)	pH	Cond. (mS or µS)	TURBIDITY (NTUs)	VOLUME REMOVED:	NOTATIONS:
1015	58	7.1	984	>1000	23.3	Swabbed well = 20 mins. silty/brown. clogged pump
1045	Swabbed well again for 10 min. Thick sediment at bottom keeps clogging pump					several times
1108	60.9	7.1	956	>1000	46.6	Swabbed well again = 5 min
1158	63.4	6.9	982	>1000	@89.4 699	Silt cleared from bottom
1212	64.9	7.0	917	>1000	93.2	Switched to ES pump
	well dewatered @ 100 g/s.					Hard bottom
1311	DTW = 29.90 swabbed well = 5 min.					
1322	64.8	6.9	969	>1000	186.5	Brown
1326	66.0	6.7	975	>1000	139.8	DTW = 62.16 well dewatered
	well dewatered @ 175 g/s.					DTW = 62.16 Hard bottom
0745	DTW = 26.41 DTB 68.55			Swabbed well = 5 min		
0802	62.9	6.7	960	>1000	@ 93.1 163.1	Brown
0807	65.9	6.7	961	>1000	186.4	
Did Well Dewater? yes	If yes, note above.			Gallons Actually Evacuated:		233

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WELL DEVELOPMENT DATA SHEET

Well I.D. MW-8B	PAGE 2 OF 2
Project #: 080207-DW-1	Client: Shell

TIME	TEMP (F)	pH	Cond. (mS or µS)	TURBIDITY (NTUs)	VOLUME REMOVED:	NOTATIONS:
0812	65.1	6.7	959	>1000	209.7	Brown
	well dewatered @ 215 gls. Recharging good.					
0823	63.7	6.7	954	>1000	233	Hard bottom

WELL DEVELOPMENT DATA SHEET

Project #: 080207-DW-1	Client: Shell
Developer: DW	Date Developed: 2-8-08
Well I.D. MW-11B	Well Diameter: (circle one) 2 3 (4) 6
Total Well Depth: Before 38.10 After 38.28	Depth to Water: Before 31.47 After 33.32
Reason not developed:	If Free Product, thickness:
Additional Notations:	

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

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

4.3	X	10	=	43
1 Case Volume		Specified Volumes		gallons

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

Type of Installed Pump
Other equipment used 4" surge block

TIME	TEMP (F)	pH	Cond. (mS or µS)	TURBIDITY (NTUs)	VOLUME REMOVED:	NOTATIONS:
1225	65.4	6.9	1714	>1000	4.3	Swabbed well = 20 min Brown/silty
1229	66.1	7.0	1403	>1000	8.6	
	well dewatered @ 9 gls.					
1233	DTW = 32.60	Swabbed well = 5 min				
1245	65.4	6.8	999	>1000	12.9	Brown/silty
1251	66.0	6.7	814	>1000	17.2	
1257	66.3	6.7	730	>1000	21.5	Lighter brown
1302	66.5	6.7	705	684	25.8	switched to ES pump
1304	67.5	6.6	777	>1000	30.1	Hard bottom
	Purging	1 case volume. Turning	pump off. Recharging	quickly. Purging	again	
1307	68.0	6.7	688	>1000	34.4	
1310	67.9	6.6	768	>1000	38.7	
1313	68.0	6.6	702	>1000	43.0	Hard bottom

Did Well Dewater? yes	If yes, note above.	Gallons Actually Evacuated:	43.0

WELL DEVELOPMENT DATA SHEET

Project #: 080207-ow-1	Client: Shell
Developer: DW	Date Developed: 2-8-08
Well I.D. MW-18	Well Diameter: (circle one) 2 3 (4) 6
Total Well Depth: Before 38.40 After 38.65	Depth to Water: Before 31.10 After 34.85
Reason not developed:	If Free Product, thickness:
Additional Notations:	

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

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

4.7	X	10	=	47
1 Case Volume		Specified Volumes		gallons

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

Type of Installed Pump
Other equipment used 4" surge block

TIME	TEMP (F)	pH	Cond. (mS or (µS))	TURBIDITY (NTUs)	VOLUME REMOVED:	NOTATIONS:
1356	66.3	6.9	1634	>1000	4.7	swabbed well 2 20 min Brown/silty
1402	66.7	6.8	1442	>1000	9.4	
1408	66.3	6.7	979	>1000	14.1	Hard bottom
1415	66.1	6.6	808	>1000	18.8	lighter brown
1418	66.4	6.6	779	>1000	23.5	Switched to ES
	well dewatered after 1 case volume. Recharges quickly. Resume purge after release					
1425	66.2	6.6	724	>1000	28.2	Brown/silty
1432	66.4	6.6	695	>1000	32.9	
1441	65.7	6.6	676	>1000	37.6	lighter
1449	65.7	6.6	672	>1000	42.3	
1459	65.3	6.6	665	>1000	47.0	Hard bottom

Did Well Dewater? yes | If yes, note above. | Gallons Actually Evacuated: 47.0