Delta
Environmental Consultants, Inc.

Solving environment-related business problems worldwide

www.deltaenv.com

175 Bernal Road • Suite 200
San Jose, California 95119 USA

408.224.4724 800.477.7411
Fax 408.225.8506

Letter of Transmittal

To:	Alameda County Health Care Services Agenecy	Date: 10/12/2005
	Environmental Health Service - Environmental Protection	
	1131 Harbor Bay Parkway, Suite 250	Job No: SJ11-989-1.2005
	Alameda, California 94502-6577	
Attn:	Jerry Wickham	

We are sending the following items:

Date	Copies	Description
15-Oct-05	1	**Quarterly Monitoring Report - Third Quarter 2005**
		Shell-branded Service Station
		11989 Dbulin Boulevard
		Dublin, CA

Alameda County
Environmental Health
OCT 17 2005

These are transmitted:

☐ For your Information ☐ For action specified below ☐ For review and comment ☐ For your use ☒ As requested

Remarks

Copies to:

By: R. Lee Dooley

Title: Senior Hydrogeologist

Shell Oil Products US

October 15, 2005

Re: **Quarterly Monitoring Report – Third Quarter 2005**
Shell-branded Service Station
11989 Dublin Boulevard
Dublin, California

Dear Mr. Jerry Wickham:

I declare, under penalty of perjury, that the information and/or recommendations contained in the attached document or report is true and correct to the best of my knowledge.

Sincerely,
Shell Oil Products US

Denis L. Brown
Sr. Environmental Engineer

20945 S. Wilmington Avenue, Carson, CA 90810 P: (559) 645-9306; F: (559) 645-5643

Delta
Environmental
Consultants, Inc.

Solving environment-related business problems worldwide

www.deltaenv.com

175 Bernal Road • Suite 200
San Jose, California 95119 USA

408.224.4724 800.477.7411
Fax 408.225.8506

October 15, 2005
Project No. SJ11-989-1.2005

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

Re: **Quarterly Monitoring Report – Third Quarter 2005**
Shell-branded Service Station
11989 Dublin Boulevard
Dublin, California

Dear Mr. Wickham:

Delta Environmental Consultants, Inc. (Delta), on behalf of Shell Oil Products US (Shell), has prepared the following third quarter 2005 groundwater monitoring and sampling report for the above referenced site. A site location map is included as Figure 1.

QUARTERLY GROUND WATER MONITORING PROGRAM

Groundwater monitoring wells were gauged and sampled by Blaine Tech Services (Blaine), at the direction of Delta, on July 21, 2005. Depth to groundwater was measured in Wells MW-1 though MW-4. Groundwater elevation data and contours are presented on Figure 2.

Groundwater samples were collected from Wells MW-1 through MW-4. Samples were submitted by Blaine to Severn Trent Laboratories, Inc. (STL) in Pleasanton, California for analysis for total purgeable petroleum hydrocarbons as gasoline (TPH-G); benzene, toluene, ethylbenzene, and total xylenes (BTEX compounds); methyl tert butyl ether (MTBE). The groundwater samples from Wells MW-2 through MW-4 were also analyzed for di-isopropyl ether (DIPE), ethyl tertiary butyl ether (ETBE), tertiary amyl methyl ether (TAME), and tertiary butyl alcohol (TBA) using EPA Method 8260B. Benzene, MTBE, and TBA concentrations in groundwater are presented on Figure 3.

Blaine's groundwater monitoring and sampling report, which includes historical and current groundwater elevation data, historical and current analytical results, and field data records for the current monitoring event, is included as Attachment A.

DISCUSSION

Depth to groundwater in Wells MW-2 through MW-4 has increased by an average of 4.77 feet since last quarter, while the depth to water in Well MW-1 has decreased by 0.54 feet. The groundwater gradient on July 21, 2005 was toward the east at a magnitude of 0.09 feet/feet, consistent with previous data.

MTBE concentrations in Wells MW-2, MW-3, and MW-4 have decreased from 1,300 micrograms per liter (ug/l) to 96 ug/l, from 16 ug/l to 4.2 ug/l, and from 6.2 ug/l to less then 2.5 ug/l, respectively since the last quarter. MTBE concentrations have decreased to historic lows in Wells MW-2 through MW-4. TBA concentrations have decreased in Wells MW-2 through MW-4 to 4,600 ug/l, 400 ug/l, and 2,400 ug/l, respectively. TBA concentrations have decreased from the previous quarter, and remain within historic fluctuations. TPH-G concentrations decreased in Wells MW-2 through MW-4 to 4,100 ug/l, 490 ug/l, and 390 ug/l. BTEX compound concentrations decreased in Wells MW-2 and MW-3. Benzene was detected in Well MW-2 at 23 ug/l and decreased to less then 0.50 ug/l in Well MW-3. Well MW-1 remains below laboratory detection limits for all analytes tested. Fuel oxygenates DIPE, ETBE, and TAME remain below laboratory detection limits in all wells tested.

Delta has received approval from the Alameda County Health Care Services Agency (ACHCSA) for an additional on- and off-site groundwater investigation. The investigation report is due to the ACHCSA by December 2, 2005.

REMARKS

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

Please call if you have any questions regarding the contents of this letter.

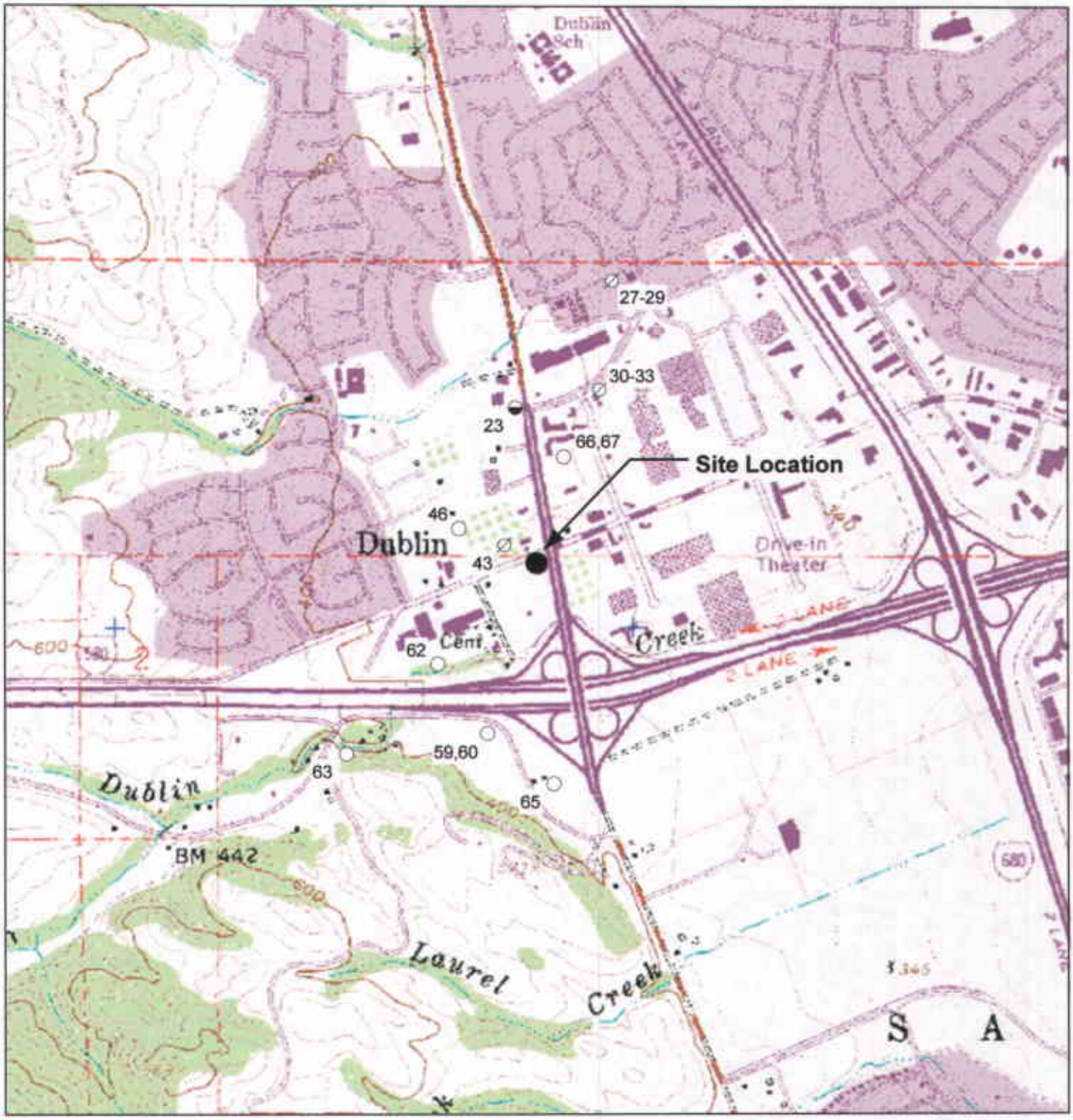
Sincerely,
Delta Environmental Consultants, Inc.

R. Lee Dooley
Senior Hydrogeologist
CHG 0183

PROFESSIONAL GEOLOGIST
R. LEE DOOLEY
NO. 0183
CERTIFIED
HYDROGEOLOGIST
STATE OF CALIFORNIA

Attachments: Figure 1 – Site Location Map
Figure 2 – Groundwater Elevation Contour Map, July 21, 2005
Figure 3 – Benzene, MTBE, and TBA Concentrations Map, July 21, 2005
Attachment A – Groundwater Monitoring and Sampling Report, August 8, 2005

cc: Denis Brown, Shell Oil Products US, Carson



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

Legend

- ○ Domestic Well
- ◒ Irrigation Well
- ∅ Destroyed/Abandoned Well

QUADRANGLE LOCATION

North

0 1,800 3,600

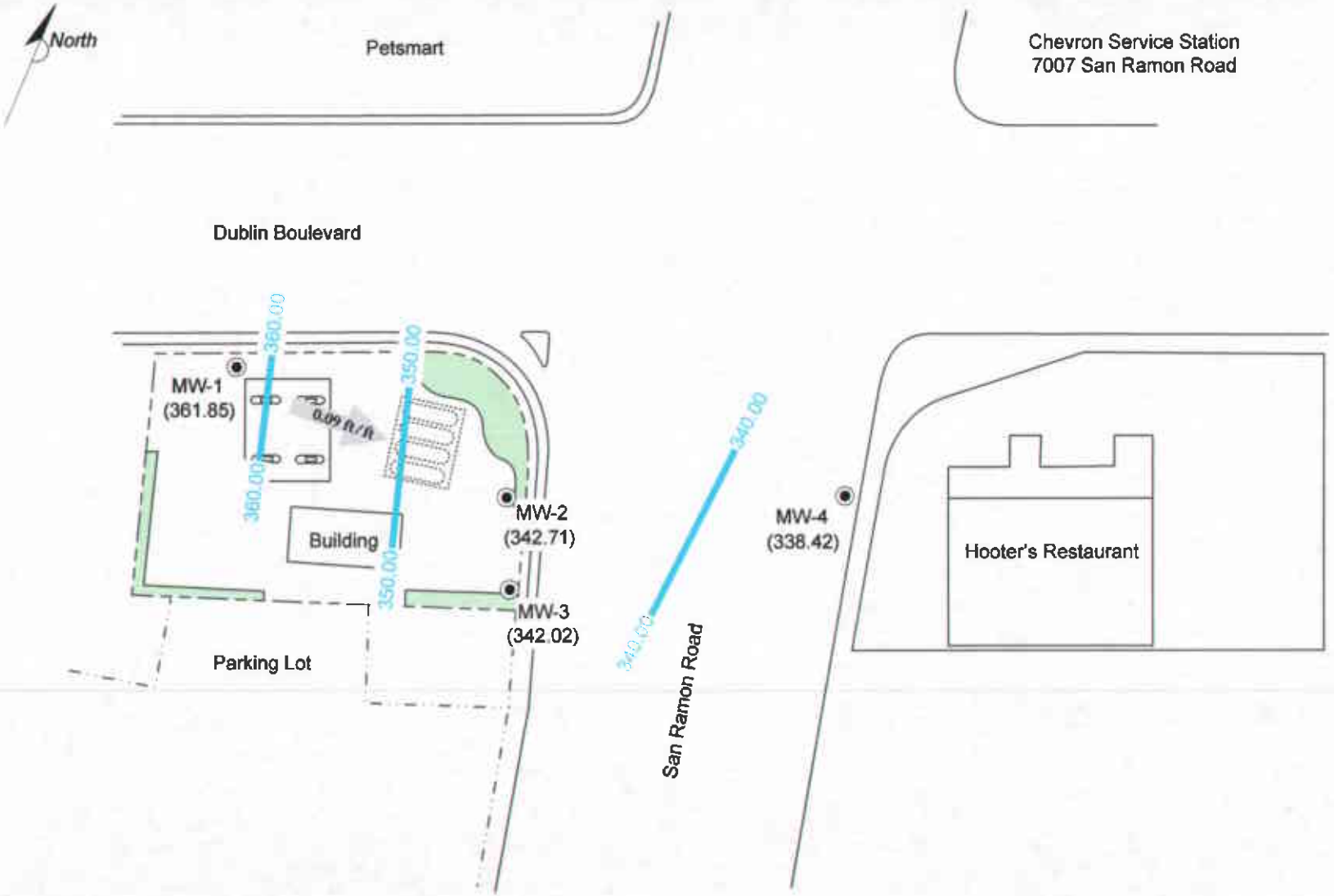
Scale, Feet

FIGURE 1
SITE LOCATION MAP

SHELL-BRANDED SERVICE STATION
11989 Dublin Blvd.
Dublin, California

PROJECT NO. SJ11-989-1.2005	DRAWN BY VF 10/22/03
FILE NO. SJ11-989-1.2005	PREPARED BY VF
REVISION NO.	REVIEWED BY

Delta
Environmental
Consultants, Inc.



LEGEND

MW-1 ◉ **GROUNDWATER MONITORING WELL**

(342.52) **GROUNDWATER ELEVATION (FEET-MSL), 7/21/05**

342.00 **GROUNDWATER ELEVATION CONTOUR**

0.13 ft/ft **APPROXIMATE GROUNDWATER FLOW DIRECTION AND GRADIENT**

0 80 FT

APPROX. SCALE

FIGURE 2

GROUNDWATER ELEVATION CONTOUR MAP, JULY 21, 2005

SHELL-BRANDED SERVICE STATION
11989 Dublin Boulevard
Dublin, California

PROJECT NO. SJ11-989-1.2005	DRAWN BY V. F. 2/11/05
FILE NO. SJ11-989-1.2005	PREPARED BY V. F.
REVISION NO. 2	REVIEWED BY

Delta Environmental Consultants, Inc

LEGEND

MW-1 ◉	**GROUNDWATER MONITORING WELL**
<0.50/<0.50/**3,700**	**BENZENE/MTBE/TBA CONCENTRATIONS (UG/L), 7/21/05**
NA	**NOT ANALYZED**

0 80 FT

APPROX. SCALE

FIGURE 3

BENZENE, MTBE, AND TBA CONCENTRATIONS MAP, JULY 21, 2005

SHELL-BRANDED SERVICE STATION
11989 Dublin Boulevard
Dublin, California

PROJECT NO. SJ11-989-1.2005	DRAWN BY V. F. 2/11/05
FILE NO. SJ11-989-1.2005	PREPARED BY V. F.
REVISION NO. 2	REVIEWED BY

Delta Environmental Consultants, Inc.

Attachment A

GROUNDWATER MONITORING AND SAMPLING REPORT

BLAINE
TECH SERVICES INC.

GROUNDWATER SAMPLING SPECIALISTS
SINCE 1985

August 8, 2005

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

Third Quarter 2005 Groundwater Monitoring at
Shell-branded Service Station
11989 Dublin Boulevard
Dublin, CA

Monitoring performed on July 21, 2005

Groundwater Monitoring Report **050721-PM-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,

Leon Gearhart
Project Coordinator

LG/cl

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

cc: Vera Fischer
Delta Environmental
175 Bernal Road, Suite 200
San Jose, CA 95119

WELL CONCENTRATIONS
Shell-branded Service Station
11989 Dublin Boulevard
Dublin, CA

Well ID	Date	TPPH (ug/L)	TEPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	Ethanol (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	DO Reading (ppm)
MW-1	7/20/1999	<50.0	<50.0	<0.500	<0.500	<0.500	<0.500	<5.00	NA	NA	NA	NA	NA	NA	367.99	6.24	361.75	NA
MW-1	10/25/1999	<50.0	<50.0	<0.500	<0.500	<0.500	<0.500	<5.00	NA	NA	NA	NA	NA	NA	367.99	6.36	361.63	NA
MW-1	1/27/2000	<50.0	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	NA	NA	NA	NA	NA	NA	367.99	5.65	362.34	NA
MW-1	4/3/2000	<50.0	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	NA	NA	NA	NA	NA	NA	367.99	5.68	362.31	1.2/1.6
MW-1	7/27/2000	<50.0	NA	<0.500	<0.500	<0.500	<0.500	<2.50	NA	NA	NA	NA	NA	NA	367.99	5.69	362.30	1.0/1.1
MW-1	10/16/2000	<50.0	NA	<0.500	<0.500	<0.500	<0.500	<2.50	NA	NA	NA	NA	NA	NA	367.99	5.74	362.25	1.2/0.8
MW-1	1/16/2001	<50.0	NA	<0.500	<0.500	<0.500	<0.500	<2.50	NA	NA	NA	NA	NA	NA	367.99	5.71	362.28	0.59/2.8
MW-1	4/19/2001	<50.0	NA	<0.500	<0.500	<0.500	<0.500	<2.50	NA	NA	NA	NA	NA	NA	367.99	5.63	362.36	1.4/1.5
MW-1	7/13/2001	<50	NA	<0.50	<0.50	<0.50	<0.50	NA	<5.0	NA	NA	NA	NA	NA	367.99	5.70	362.29	2.3/3.1
MW-1	8/13/2001	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	367.99	5.72	362.27	NA
MW-1	10/26/2001	<50	NA	<0.50	<0.50	<0.50	<0.50	NA	<5.0	NA	NA	NA	NA	NA	367.99	5.73	362.26	0.4/0.0
MW-1	1/11/2002	<50	NA	<0.50	<0.50	<0.50	<0.50	NA	<5.0	NA	NA	NA	NA	NA	367.99	5.55	362.44	5.4/2.0
MW-1	5/22/2002	<50	NA	<0.50	<0.50	<0.50	<0.50	NA	<5.0	NA	NA	NA	NA	NA	367.99	5.55	362.44	NA
MW-1	7/15/2002	<50	NA	<0.50	<0.50	<0.50	<0.50	NA	<5.0	NA	NA	NA	NA	NA	367.99	5.70	362.29	NA
MW-1	10/11/2002	<50	NA	<0.50	<0.50	<0.50	<0.50	NA	<5.0	NA	NA	NA	NA	NA	367.99	5.87	362.12	NA
MW-1	1/17/2003	<50	NA	<0.50	<0.50	<0.50	<0.50	NA	<5.0	NA	NA	NA	NA	NA	367.99	5.79	362.20	NA
MW-1	5/1/2003	52	NA	<0.50	<0.50	<0.50	<1.0	NA	<5.0	NA	NA	NA	NA	NA	367.99	5.61	362.38	NA
MW-1	8/27/2003	<50	NA	<0.50	<0.50	<0.50	<1.0	NA	<0.50	NA	NA	NA	NA	NA	367.99	5.84	362.15	NA
MW-1	10/3/2003	<50	NA	<0.50	<0.50	<0.50	<1.0	NA	<0.50	NA	NA	NA	NA	NA	367.99	5.95	362.04	NA
MW-1	1/5/2004	<50	NA	<0.50	<0.50	<0.50	<1.0	NA	<0.50	NA	NA	NA	NA	NA	367.99	5.66	362.33	NA
MW-1	4/9/2004	<50	NA	<0.50	<0.50	<0.50	<1.0	NA	<0.50	NA	NA	NA	NA	NA	367.99	5.55	362.44	NA
MW-1	7/22/2004	<50	NA	<0.50	<0.50	<0.50	<1.0	NA	<0.50	NA	NA	NA	NA	NA	367.99	5.73	362.26	NA
MW-1	11/1/2004	<50	NA	<0.50	<0.50	<0.50	<1.0	NA	<0.50	NA	NA	NA	NA	NA	367.99	5.73	362.26	NA
MW-1	1/26/2005	<50	NA	<0.50	<0.50	<0.50	<1.0	NA	<0.50	NA	NA	NA	NA	NA	367.99	5.50	362.49	NA
MW-1	4/14/2005	<50	NA	<0.50	<0.50	<0.50	<1.0	NA	<0.50	NA	NA	NA	NA	NA	367.99	5.60	362.39	NA
MW-1	**7/21/2005**	**<50**	**NA**	**<0.50**	**<0.50**	**<0.50**	**<1.0**	**NA**	**<0.50**	**NA**	**NA**	**NA**	**NA**	**NA**	**367.99**	**6.14**	**361.85**	**NA**
MW-2	7/20/1999	2,600	699	55.0	<2.50	59.5	<2.50	9,370	NA	NA	NA	NA	NA	NA	365.43	20.31	345.12	NA

WELL CONCENTRATIONS
Shell-branded Service Station
11989 Dublin Boulevard
Dublin, CA

Well ID	Date	TPPH (ug/L)	TEPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	Ethanol (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	DO Reading (ppm)
MW-2	10/25/1999	4,710	761	61.1	<10.0	74.6	<10.0	22,800	NA	NA	NA	NA	NA	NA	365.43	22.80	342.63	NA
MW-2	1/27/2000	3,820	1490	60.8	<10.0	156	<10.0	13,400	15,000a	NA	NA	NA	NA	NA	365.43	19.17	346.26	NA
MW-2	4/3/2000	7,130	NA	184	14.9	238	18.8	34,200	28,000	NA	NA	NA	NA	NA	365.43	19.03	346.40	1.6/1.7
MW-2	7/27/2000	311	NA	10.0	<0.500	<0.500	<0.500	280	NA	NA	NA	NA	NA	NA	365.43	19.09	346.34	1.9/1.7
MW-2	10/16/2000	3,970	NA	123	<5.00	68.5	<5.00	14,000	15,600	NA	NA	NA	NA	NA	365.43	23.98	341.45	0.5/0.5
MW-2	1/16/2001	5,780	NA	125	9.71	139	6.93	7,660	7,810	NA	NA	NA	NA	NA	365.43	22.12	343.31	0.90/2.61
MW-2	4/19/2001	4,460	NA	114	7.61	115	4.87	15,200	18,400	NA	NA	NA	NA	NA	365.43	20.95	344.48	1.6/1.5
MW-2	7/13/2001	<5,000	NA	<25	<25	110	<25	NA	15,000	NA	NA	NA	NA	NA	365.43	22.62	342.81	2.7/1.8
MW-2	8/13/2001	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	365.43	22.33	343.10	NA
MW-2	10/26/2001	3,700	NA	<20	<20	66	<20	NA	9,200	<20	<20	<20	1,800	<500	365.43	22.32	343.11	0.7/0.8
MW-2	1/11/2002	<5,000	NA	<50	<50	54	<50	NA	15,000	NA	NA	NA	NA	NA	365.43	18.72	346.71	5.1/c
MW-2	5/22/2002	<5,000	NA	53	<50	57	<50	NA	20,000	<50	<50	<50	6,300	NA	365.43	20.59	344.84	NA
MW-2	7/15/2002	<5,000	NA	<50	<50	<50	<50	NA	16,000	<50	<50	<50	3,100	NA	365.43	21.90	343.53	NA
MW-2	10/11/2002	3,600	NA	<20	<20	48	<20	NA	8,200	<20	<20	<20	1,600	NA	365.43	22.45	342.98	NA
MW-2	1/17/2003	4,700	NA	<25	<25	87	<25	NA	13,000	<25	<25	<25	7,700	NA	365.43	19.27	346.16	NA
MW-2	5/1/2003	6,000	NA	<50	<50	110	<100	NA	12,000	<200	<200	<200	6,700	NA	365.43	19.09	346.34	NA
MW-2	8/27/2003	2,500	NA	32	<25	100	<50	NA	4,800	<100	<100	<100	9,100	NA	365.43	22.53	342.90	NA
MW-2	10/3/2003	5,500 d	NA	32	<13	86	<25	NA	2,200	<50	<50	<50	9,900	NA	365.43	23.02	342.41	NA
MW-2	1/5/2004	6,500	NA	22	<13	58	<25	NA	1,200	<50	<50	<50	7,400	NA	365.43	19.08	346.35	NA
MW-2	4/9/2004	6,500	NA	72	<13	30	<25	NA	1,600	<50	<50	<50	11,000	NA	365.43	20.22	345.21	NA
MW-2	7/22/2004	4,900	NA	32	<13	19	<25	NA	180	<50	<50	<50	7,100	NA	365.43	22.14	343.29	NA
MW-2	11/1/2004	5,700	NA	42	<13	13	<25	NA	190	<50	<50	<50	6,100	NA	365.43	20.72	344.71	NA
MW-2	1/26/2005	6,600	NA	94	<13	13	<25	NA	1,700	<50	<50	<50	16,000	NA	365.43	17.95	347.48	NA
MW-2	4/14/2005	8,200	NA	170	<10	92	<20	NA	1,300	<40	<40	<40	15,000	NA	365.43	18.10	347.33	NA
MW-2	**7/21/2005**	**4,100**	**NA**	**23**	**<10**	**13**	**<20**	**NA**	**96**	**<40**	**<40**	**<40**	**4,600**	**NA**	**365.43**	**22.72**	**342.71**	**NA**
MW-3	7/20/1999	208	177	4.69	<0.500	<0.500	<0.500	664	NA	NA	NA	NA	NA	NA	364.97	24.23	340.74	NA
MW-3	10/25/1999	378	182	9.49	<0.500	<0.500	<0.500	1,410	NA	NA	NA	NA	NA	NA	364.97	23.26	341.71	NA
MW-3	1/27/2000	428	100	29.4	<0.500	<0.500	<0.500	941	NA	NA	NA	NA	NA	NA	364.97	19.53	345.44	NA

WELL CONCENTRATIONS
Shell-branded Service Station
11989 Dublin Boulevard
Dublin, CA

Well ID	Date	TPPH (ug/L)	TEPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	Ethanol (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	DO Reading (ppm)
MW-3	4/3/2000	<125	NA	11.4	<1.25	<1.25	<1.25	639	NA	NA	NA	NA	NA	NA	364.97	19.13	345.84	1.4/1.9
MW-3	7/27/2000	4,360	NA	78.4	6.95	85.8	2.61	26,600	25,200b	NA	NA	NA	NA	NA	364.97	19.10	345.87	1.9/2.0
MW-3	10/16/2000	586	NA	21.3	<0.500	<0.500	<0.500	3,310	NA	NA	NA	NA	NA	NA	364.97	24.11	340.86	1.1/0.8
MW-3	1/16/2001	558	NA	14.7	<0.500	<0.500	<0.500	2,210	NA	NA	NA	NA	NA	NA	364.97	22.19	342.78	0.87/3.5
MW-3	4/19/2001	376	NA	9.08	<0.500	<0.500	<0.500	667	NA	NA	NA	NA	NA	NA	364.97	20.96	344.01	1.7/1.4
MW-3	7/13/2001	370	NA	<2.0	<2.0	<2.0	<2.0	NA	670	NA	NA	NA	NA	NA	364.97	22.77	342.20	3.1/4.8
MW-3	8/13/2001	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	364.97	22.59	342.38	NA
MW-3	10/26/2001	<200	NA	<2.0	<2.0	<2.0	<2.0	NA	680	<2.0	<2.0	<2.0	79	<500	364.97	22.81	342.16	1.0/3.2
MW-3	1/11/2002	480	NA	<2.0	<2.0	<2.0	<2.0	NA	830	NA	NA	NA	NA	NA	364.97	18.88	346.09	1.1/3.2
MW-3	5/22/2002	570	NA	<1.0	<1.0	<1.0	<1.0	NA	680	<2.0	<2.0	<2.0	58	NA	364.97	20.75	344.22	NA
MW-3	7/15/2002	420	NA	1.1	<1.0	<1.0	1.1	NA	520	<2.0	<2.0	<2.0	53	NA	364.97	22.09	342.88	NA
MW-3	10/11/2002	730	NA	<0.50	<0.50	<0.50	<0.50	NA	320	<2.0	<2.0	<2.0	330	NA	364.97	22.68	342.29	NA
MW-3	1/17/2003	740	NA	<0.50	<0.50	<0.50	<0.50	NA	150	<2.0	<2.0	<2.0	440	NA	364.97	19.34	345.63	NA
MW-3	5/1/2003	890	NA	<0.50	<0.50	<0.50	<1.0	NA	78	<2.0	<2.0	<2.0	300	NA	364.97	19.27	345.70	NA
MW-3	8/27/2003	920 d	NA	<0.50	<0.50	<0.50	<1.0	NA	52	<2.0	<2.0	<2.0	330	NA	364.97	22.73	342.24	NA
MW-3	10/3/2003	870 d	NA	<0.50	<0.50	<0.50	<1.0	NA	65	<2.0	<2.0	<2.0	520	NA	364.97	23.15	341.82	NA
MW-3	1/5/2004	860 d	NA	<0.50	<0.50	<0.50	<1.0	NA	40	<2.0	<2.0	<2.0	750	NA	364.97	19.60	345.37	NA
MW-3	4/9/2004	420 d	NA	<0.50	<0.50	<0.50	<1.0	NA	58	<2.0	<2.0	<2.0	280	NA	364.97	20.30	344.67	NA
MW-3	7/22/2004	570 e	NA	<0.50	<0.50	<0.50	<1.0	NA	20	<2.0	<2.0	<2.0	360	NA	364.97	22.42	342.55	NA
MW-3	11/1/2004	430	NA	<0.50	<0.50	<0.50	<1.0	NA	28	<2.0	<2.0	<2.0	680	NA	364.97	21.00	343.97	NA
MW-3	1/26/2005	1000	NA	0.53	<0.50	<0.50	<1.0	NA	20	<2.0	<2.0	<2.0	820	NA	364.97	17.92	347.05	NA
MW-3	4/14/2005	1,100	NA	1.3	<0.50	<0.50	<1.0	NA	16	<2.0	<2.0	<2.0	580	NA	364.97	18.11	346.86	NA
MW-3	**7/21/2005**	**490**	**NA**	**<0.50**	**<0.50**	**<0.50**	**<1.0**	**NA**	**4.2**	**<2.0**	**<2.0**	**<2.0**	**400**	**NA**	**364.97**	**22.95**	**342.02**	**NA**
MW-4	8/10/2001	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	364.01	25.63	338.38	NA
MW-4	8/13/2001	2,400	NA	<10	<10	<10	<10	NA	8,300	NA	NA	NA	NA	NA	364.01	26.32	337.69	4.2/2.7
MW-4	10/26/2001	<2,000	NA	<20	<20	<20	<20	NA	8,600	NA	NA	NA	NA	NA	364.01	26.02	337.99	3.1/2.8
MW-4	1/11/2002	<2,000	NA	<20	<20	<20	<20	NA	5,100	NA	NA	NA	NA	NA	364.01	22.25	341.76	7.9/3.0
MW-4	5/22/2002	<500	NA	<5.0	<5.0	<5.0	<5.0	NA	3,200	<5.0	<5.0	<5.0	2,500	NA	364.01	23.96	340.05	NA

WELL CONCENTRATIONS
Shell-branded Service Station
11989 Dublin Boulevard
Dublin, CA

Well ID	Date	TPPH (ug/L)	TEPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	Ethanol (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	DO Reading (ppm)
MW-4	7/15/2002	<2,500	NA	<20	<20	<20	<20	NA	7,000	<20	<20	<20	2,000	NA	363.97	25.18	338.79	NA
MW-4	10/11/2002	1,900	NA	<5.0	<5.0	<5.0	<5.0	NA	2,900	<5.0	<5.0	<5.0	5,100	NA	363.97	25.91	338.06	NA
MW-4	1/17/2003	580	NA	<2.5	<2.5	<2.5	<2.5	NA	59	<2.5	<2.5	<2.5	7,000	NA	363.97	22.38	341.59	NA
MW-4	5/1/2003	770	NA	<5.0	<5.0	<5.0	<10	NA	73	<20	<20	<20	4,300	NA	363.97	21.92	342.05	NA
MW-4	8/27/2003	<1,000	NA	<10	<10	<10	<20	NA	370	<40	<40	<40	11,000	NA	363.97	25.31	338.66	NA
MW-4	10/3/2003	<1,000	NA	<10	<10	<10	<20	NA	190	<40	<40	<40	11,000	NA	363.97	26.00	337.97	NA
MW-4	1/5/2004	<1,000	NA	<10	<10	<10	<20	NA	<10	<40	<40	<40	7,400	NA	363.97	23.48	340.49	NA
MW-4	4/9/2004	<1,000	NA	<10	<10	<10	<20	NA	<10	<40	<40	<40	5,700	NA	363.97	23.45	340.52	NA
MW-4	7/22/2004	Well inaccessible		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	363.97	NA	NA	NA
MW-4	11/1/2004	Well inaccessible		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	363.97	NA	NA	NA
MW-4	1/26/2005	1200 f	NA	<10	<10	<10	<20	NA	<10	<40	<40	<40	3700	NA	363.97	21.44	342.53	NA
MW-4	4/14/2005	1,000 f	NA	<0.50	<0.50	<0.50	<1.0	NA	6.2	<2.0	<2.0	<2.0	5,800	NA	363.97	20.69	343.28	NA
MW-4	**7/21/2005**	**390**	**NA**	**<2.5**	**<2.5**	**<2.5**	**<5.0**	**NA**	**<2.5**	**<10**	**<10**	**<10**	**2,400**	**NA**	**363.97**	**25.55**	**338.42**	**NA**

WELL CONCENTRATIONS
Shell-branded Service Station
11989 Dublin Boulevard
Dublin, CA

Well ID	Date	TPPH (ug/L)	TEPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	Ethanol (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	DO Reading (ppm)

Abbreviations:

TPPH = Total petroleum hydrocarbons as gasoline by EPA Method 8260B; prior to July 13, 2001, analyzed by EPA Method 8015.

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

BTEX = Benzene, toluene, ethylbenzene, xylenes by EPA Method 8260B; prior to July 13, 2001, analyzed by EPA Method 8020.

MTBE = Methyl tertiary butyl ether

DIPE = Di-isopropyl ether, analyzed by EPA Method 8260

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

TAME = Tertiary amyl methyl ether, analyzed by EPA Method 8260

TBA = Tertiary butyl alcohol, analyzed by EPA Method 8260

TOC = Top of Casing Elevation

GW = Groundwater

DO = Dissolved Oxygen

n/n = Pre-purge/Post-purge DO Readings

ug/L = Parts per billion

ppm = Parts per million

MSL = Mean sea level

ft. = Feet

<n = Below detection limit

NA = Not applicable

WELL CONCENTRATIONS
Shell-branded Service Station
11989 Dublin Boulevard
Dublin, CA

Well ID	Date	TPPH (ug/L)	TEPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	Ethanol (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	DO Reading (ppm)

Notes:

a = Sample was analyzed outside the EPA recommended holding time.

b = Concentration is an estimate.

c = DO meter malfunctioning.

d = Hydrocarbon does not match pattern of laboratory's standard.

e = Sample contains discrete peak in addition to gasoline.

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

Ethanol analyzed by EPA Method 8260B.

Wells surveyed June 21, 1999 by Virgil Chavez Land Surveying of Vallejo, CA.

Wells surveyed August 23, 2001 and February 18, 2002 by Virgil Chavez Land Surveying of Vallejo, CA.

SEVERN TRENT STL

Submission#: 2005-07-0668

Blaine Tech Services, Inc.

August 04, 2005

1680 Rogers Avenue
San Jose, CA 95112-1105

Attn.: Leon Gearhart

Project#: BTS#050721-PM1
Project: 98995328
Site: 11989 Dublin Boulevard, Dublin

Dear Mr.Gearhart,

Attached is our report for your samples received on 07/22/2005 16:01
This report has been reviewed and approved for release. Reproduction of this report is permitted only in its entirety.

Please note that any unused portion of the samples will be discarded after 09/05/2005 unless you have requested otherwise.
We appreciate the opportunity to be of service to you. If you have any questions,

You can also contact me via email. My email address is: mbrewer@stl-inc.com

Sincerely,

Melissa Brewer

Melissa Brewer
Project Manager

SEVERN TRENT STL

Submission: 2005-07-0668

Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

Blaine Tech Services, Inc.
Attn.: Leon Gearhart

1680 Rogers Avenue
San Jose, CA 95112-1105
Phone: (408) 573-0555 Fax: (408) 573-7771

Project: BTS#050721-PM1
98995328

Received: 07/22/2005 16:01

Site: 11989 Dublin Boulevard, Dublin

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
MW-1	07/21/2005 10:00	Water	1
MW-2	07/21/2005 10:15	Water	2
MW-3	07/21/2005 11:10	Water	3
MW-4	07/21/2005 07:50	Water	4

Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

Blaine Tech Services, Inc.
Attn.: Leon Gearhart

1680 Rogers Avenue
San Jose, CA 95112-1105
Phone: (408) 573-0555 Fax: (408) 573-7771

Project: BTS#050721-PM1
98995328

Received: 07/22/2005 16:01

Site: 11989 Dublin Boulevard, Dublin

Prep(s):	5030B	Test(s):	8260B
Sample ID:	**MW-1**	Lab ID:	2005-07-0668 - 1
Sampled:	07/21/2005 10:00	Extracted:	7/31/2005 09:10
Matrix:	Water	QC Batch#:	2005/07/31-1C.64
pH: <2			

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	ND	50	ug/L	1.00	07/31/2005 09:10	
Benzene	ND	0.50	ug/L	1.00	07/31/2005 09:10	
Toluene	ND	0.50	ug/L	1.00	07/31/2005 09:10	
Ethylbenzene	ND	0.50	ug/L	1.00	07/31/2005 09:10	
Total xylenes	ND	1.0	ug/L	1.00	07/31/2005 09:10	
Methyl tert-butyl ether (MTBE)	ND	0.50	ug/L	1.00	07/31/2005 09:10	
Surrogate(s)						
1,2-Dichloroethane-d4	101.9	73-130	%	1.00	07/31/2005 09:10	
Toluene-d8	84.7	81-114	%	1.00	07/31/2005 09:10	

Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

Blaine Tech Services, Inc.
Attn.: Leon Gearhart

1680 Rogers Avenue
San Jose, CA 95112-1105
Phone: (408) 573-0555 Fax: (408) 573-7771

Project: BTS#050721-PM1
98995328

Received: 07/22/2005 16:01

Site: 11989 Dublin Boulevard, Dublin

Prep(s): 5030B
Sample ID: **MW-2**
Sampled: 07/21/2005 10:15
Matrix: Water
Analysis Flag: L2 (See Legend and Note Section)

Test(s): 8260B
Lab ID: 2005-07-0668 - 2
Extracted: 7/30/2005 17:35
QC Batch#: 2005/07/30-2A.69

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	4100	1000	ug/L	20.00	07/30/2005 17:35	
Benzene	23	10	ug/L	20.00	07/30/2005 17:35	
Toluene	ND	10	ug/L	20.00	07/30/2005 17:35	
Ethylbenzene	13	10	ug/L	20.00	07/30/2005 17:35	
Total xylenes	ND	20	ug/L	20.00	07/30/2005 17:35	
tert-Butyl alcohol (TBA)	4600	100	ug/L	20.00	07/30/2005 17:35	
Methyl tert-butyl ether (MTBE)	96	10	ug/L	20.00	07/30/2005 17:35	
Di-isopropyl Ether (DIPE)	ND	40	ug/L	20.00	07/30/2005 17:35	
Ethyl tert-butyl ether (ETBE)	ND	40	ug/L	20.00	07/30/2005 17:35	
tert-Amyl methyl ether (TAME)	ND	40	ug/L	20.00	07/30/2005 17:35	
Surrogate(s)						
1,2-Dichloroethane-d4	91.4	73-130	%	20.00	07/30/2005 17:35	
Toluene-d8	93.5	81-114	%	20.00	07/30/2005 17:35	

Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

Blaine Tech Services, Inc.
Attn.: Leon Gearhart

1680 Rogers Avenue
San Jose, CA 95112-1105
Phone: (408) 573-0555 Fax: (408) 573-7771

Project: BTS#050721-PM1
98995328

Received: 07/22/2005 16:01

Site: 11989 Dublin Boulevard, Dublin

Prep(s): 5030B
Sample ID: **MW-3**
Sampled: 07/21/2005 11:10
Matrix: Water
pH: <2

Test(s): 8260B
Lab ID: 2005-07-0668 - 3
Extracted: 7/30/2005 17:53
QC Batch#: 2005/07/30-2A.69

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	490	50	ug/L	1.00	07/30/2005 17:53	
Benzene	ND	0.50	ug/L	1.00	07/30/2005 17:53	
Toluene	ND	0.50	ug/L	1.00	07/30/2005 17:53	
Ethylbenzene	ND	0.50	ug/L	1.00	07/30/2005 17:53	
Total xylenes	ND	1.0	ug/L	1.00	07/30/2005 17:53	
tert-Butyl alcohol (TBA)	400	5.0	ug/L	1.00	07/30/2005 17:53	
Methyl tert-butyl ether (MTBE)	4.2	0.50	ug/L	1.00	07/30/2005 17:53	
Di-isopropyl Ether (DIPE)	ND	2.0	ug/L	1.00	07/30/2005 17:53	
Ethyl tert-butyl ether (ETBE)	ND	2.0	ug/L	1.00	07/30/2005 17:53	
tert-Amyl methyl ether (TAME)	ND	2.0	ug/L	1.00	07/30/2005 17:53	
Surrogate(s)						
1,2-Dichloroethane-d4	94.8	73-130	%	1.00	07/30/2005 17:53	
Toluene-d8	94.6	81-114	%	1.00	07/30/2005 17:53	

Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

Blaine Tech Services, Inc.
Attn.: Leon Gearhart

1680 Rogers Avenue
San Jose, CA 95112-1105
Phone: (408) 573-0555 Fax: (408) 573-7771

Project: BTS#050721-PM1
98995328

Received: 07/22/2005 16:01

Site: 11989 Dublin Boulevard, Dublin

Prep(s): 5030B
Sample ID: **MW-4**
Sampled: 07/21/2005 07:50
Matrix: Water
Analysis Flag: L2 (See Legend and Note Section)

Test(s): 8260B
Lab ID: 2005-07-0668 - 4
Extracted: 7/31/2005 18:17
QC Batch#: 2005/07/31-1B.69

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	390	250	ug/L	5.00	07/31/2005 18:17	
Benzene	ND	2.5	ug/L	5.00	07/31/2005 18:17	
Toluene	ND	2.5	ug/L	5.00	07/31/2005 18:17	
Ethylbenzene	ND	2.5	ug/L	5.00	07/31/2005 18:17	
Total xylenes	ND	5.0	ug/L	5.00	07/31/2005 18:17	
tert-Butyl alcohol (TBA)	2400	25	ug/L	5.00	07/31/2005 18:17	
Methyl tert-butyl ether (MTBE)	ND	2.5	ug/L	5.00	07/31/2005 18:17	
Di-isopropyl Ether (DIPE)	ND	10	ug/L	5.00	07/31/2005 18:17	
Ethyl tert-butyl ether (ETBE)	ND	10	ug/L	5.00	07/31/2005 18:17	
tert-Amyl methyl ether (TAME)	ND	10	ug/L	5.00	07/31/2005 18:17	
Surrogate(s)						
1,2-Dichloroethane-d4	112.3	73-130	%	5.00	07/31/2005 18:17	
Toluene-d8	89.8	81-114	%	5.00	07/31/2005 18:17	

Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

Blaine Tech Services, Inc.
Attn.: Leon Gearhart

1680 Rogers Avenue
San Jose, CA 95112-1105
Phone: (408) 573-0555 Fax: (408) 573-7771

Project: BTS#050721-PM1
98995328

Received: 07/22/2005 16:01

Site: 11989 Dublin Boulevard, Dublin

Batch QC Report

Prep(s): 5030B — Test(s): 8260B

Method Blank — **Water** — **QC Batch # 2005/07/30-2A.69**

MB: 2005/07/30-2A.69-005 — Date Extracted: 07/30/2005 17:05

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline [Shell]	ND	50	ug/L	07/30/2005 17:05	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	07/30/2005 17:05	
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	07/30/2005 17:05	
Di-isopropyl Ether (DIPE)	ND	2.0	ug/L	07/30/2005 17:05	
Ethyl tert-butyl ether (ETBE)	ND	2.0	ug/L	07/30/2005 17:05	
tert-Amyl methyl ether (TAME)	ND	2.0	ug/L	07/30/2005 17:05	
Benzene	ND	0.5	ug/L	07/30/2005 17:05	
Toluene	ND	0.5	ug/L	07/30/2005 17:05	
Ethylbenzene	ND	0.5	ug/L	07/30/2005 17:05	
Total xylenes	ND	1.0	ug/L	07/30/2005 17:05	
Surrogates(s)					
1,2-Dichloroethane-d4	95.6	73-130	%	07/30/2005 17:05	
Toluene-d8	93.4	81-114	%	07/30/2005 17:05	

Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

Blaine Tech Services, Inc.

Attn.: Leon Gearhart

1680 Rogers Avenue
San Jose, CA 95112-1105
Phone: (408) 573-0555 Fax: (408) 573-7771

Project: BTS#050721-PM1
98995328

Received: 07/22/2005 16:01

Site: 11989 Dublin Boulevard, Dublin

Batch QC Report

Prep(s): 5030B — Test(s): 8260B

Method Blank — **Water** — **QC Batch # 2005/07/31-1B.69**

MB: 2005/07/31-1B.69-058 — Date Extracted: 07/31/2005 08:58

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline [Shell]	ND	50	ug/L	07/31/2005 08:58	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	07/31/2005 08:58	
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	07/31/2005 08:58	
Di-isopropyl Ether (DIPE)	ND	2.0	ug/L	07/31/2005 08:58	
Ethyl tert-butyl ether (ETBE)	ND	2.0	ug/L	07/31/2005 08:58	
tert-Amyl methyl ether (TAME)	ND	2.0	ug/L	07/31/2005 08:58	
Benzene	ND	0.5	ug/L	07/31/2005 08:58	
Toluene	ND	0.5	ug/L	07/31/2005 08:58	
Ethylbenzene	ND	0.5	ug/L	07/31/2005 08:58	
Total xylenes	ND	1.0	ug/L	07/31/2005 08:58	
Surrogates(s)					
1,2-Dichloroethane-d4	93.8	73-130	%	07/31/2005 08:58	
Toluene-d8	97.2	81-114	%	07/31/2005 08:58	

Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

Blaine Tech Services, Inc.
Attn.: Leon Gearhart

1680 Rogers Avenue
San Jose, CA 95112-1105
Phone: (408) 573-0555 Fax: (408) 573-7771

Project: BTS#050721-PM1
98995328

Received: 07/22/2005 16:01

Site: 11989 Dublin Boulevard, Dublin

Batch QC Report

Prep(s): 5030B — Test(s): 8260B

Method Blank — **Water** — **QC Batch # 2005/07/31-1C.64**

MB: 2005/07/31-1C.64-040 — Date Extracted: 07/31/2005 08:40

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline [Shell]	ND	50	ug/L	07/31/2005 08:40	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	07/31/2005 08:40	
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	07/31/2005 08:40	
Ethyl tert-butyl ether (ETBE)	ND	2.0	ug/L	07/31/2005 08:40	
tert-Amyl methyl ether (TAME)	ND	2.0	ug/L	07/31/2005 08:40	
Benzene	ND	0.5	ug/L	07/31/2005 08:40	
Toluene	ND	0.5	ug/L	07/31/2005 08:40	
Ethylbenzene	ND	0.5	ug/L	07/31/2005 08:40	
Total xylenes	ND	1.0	ug/L	07/31/2005 08:40	
Surrogates(s)					
1,2-Dichloroethane-d4	97.6	73-130	%	07/31/2005 08:40	
Toluene-d8	83.2	81-114	%	07/31/2005 08:40	

Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

Blaine Tech Services, Inc.

Attn.: Leon Gearhart

1680 Rogers Avenue
San Jose, CA 95112-1105
Phone: (408) 573-0555 Fax: (408) 573-7771

Project: BTS#050721-PM1
98995328

Received: 07/22/2005 16:01

Site: 11989 Dublin Boulevard, Dublin

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Laboratory Control Spike **Water** **QC Batch # 2005/07/30-2A.69**

LCS 2005/07/30-2A.69-047 Extracted: 07/30/2005 Analyzed: 07/30/2005 16:47
LCSD

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
Methyl tert-butyl ether (MTBE)	26.4		25	105.6			65-165	20		
Benzene	23.9		25	95.6			69-129	20		
Toluene	26.0		25	104.0			70-130	20		
Surrogates(s)										
1,2-Dichloroethane-d4	468		500	93.6			73-130			
Toluene-d8	471		500	94.2			81-114			

Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

Blaine Tech Services, Inc.
Attn.: Leon Gearhart

1680 Rogers Avenue
San Jose, CA 95112-1105
Phone: (408) 573-0555 Fax: (408) 573-7771

Project: BTS#050721-PM1
98995328

Received: 07/22/2005 16:01

Site: 11989 Dublin Boulevard, Dublin

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Laboratory Control Spike | **Water** | **QC Batch # 2005/07/31-1B.69**

LCS 2005/07/31-1B.69-039 | Extracted: 07/31/2005 | Analyzed: 07/31/2005 08:39
LCSD

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
Methyl tert-butyl ether (MTBE)	24.0		25	96.0			65-165	20		
Benzene	23.6		25	94.4			69-129	20		
Toluene	24.7		25	98.8			70-130	20		
Surrogates(s)										
1,2-Dichloroethane-d4	450		500	90.0			73-130			
Toluene-d8	478		500	95.6			81-114			

Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

Blaine Tech Services, Inc.

Attn.: Leon Gearhart

1680 Rogers Avenue
San Jose, CA 95112-1105
Phone: (408) 573-0555 Fax: (408) 573-7771

Project: BTS#050721-PM1
98995328

Received: 07/22/2005 16:01

Site: 11989 Dublin Boulevard, Dublin

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Laboratory Control Spike **Water** **QC Batch # 2005/07/31-1C.64**

LCS 2005/07/31-1C.64-041 Extracted: 07/31/2005 Analyzed: 07/31/2005 07:41

LCSD

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
Methyl tert-butyl ether (MTBE)	25.7		25	102.8			65-165	20		
Benzene	25.8		25	103.2			69-129	20		
Toluene	28.4		25	113.6			70-130	20		
Surrogates(s)										
1,2-Dichloroethane-d4	552		500	110.4			73-130			
Toluene-d8	431		500	86.2			81-114			

Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

Blaine Tech Services, Inc.

Attn.: Leon Gearhart

1680 Rogers Avenue
San Jose, CA 95112-1105
Phone: (408) 573-0555 Fax: (408) 573-7771

Project: BTS#050721-PM1
98995328

Received: 07/22/2005 16:01

Site: 11989 Dublin Boulevard, Dublin

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Matrix Spike (MS / MSD) **Water** **QC Batch # 2005/07/30-2A.69**

MW-3 >> MS

Lab ID: 2005-07-0668 - 003

MS: 2005/07/30-2A.69-012 Extracted: 07/30/2005 Analyzed: 07/30/2005 18:12

Dilution: 1.00

MSD: 2005/07/30-2A.69-030 Extracted: 07/30/2005 Analyzed: 07/30/2005 18:30

Dilution: 1.00

Compound	Conc. ug/L			Spk.Level	Recovery %			Limits %		Flags	
	MS	MSD	Sample	ug/L	MS	MSD	RPD	Rec.	RPD	MS	MSD
Methyl tert-butyl ether	29.3	26.2	4.21	25	100.4	88.0	13.2	65-165	20		
Benzene	22.4	21.9	ND	25	89.6	87.6	2.3	69-129	20		
Toluene	23.7	22.3	ND	25	94.8	89.2	6.1	70-130	20		
Surrogate(s)											
1,2-Dichloroethane-d4	483	459		500	96.7	91.8		73-130			
Toluene-d8	469	465		500	93.8	93.0		81-114			

Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

Blaine Tech Services, Inc.
Attn.: Leon Gearhart

1680 Rogers Avenue
San Jose, CA 95112-1105
Phone: (408) 573-0555 Fax: (408) 573-7771

Project: BTS#050721-PM1
98995328

Received: 07/22/2005 16:01

Site: 11989 Dublin Boulevard, Dublin

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Matrix Spike (MS / MSD) **Water** **QC Batch # 2005/07/31-1B.69**

MS/MSD

Lab ID: 2005-07-0543 - 007

MS: 2005/07/31-1B.69-033 Extracted: 07/31/2005 Analyzed: 07/31/2005 10:33

Dilution: 1.00

MSD: 2005/07/31-1B.69-052 Extracted: 07/31/2005 Analyzed: 07/31/2005 10:52

Dilution: 1.00

Compound	Conc. ug/L			Spk.Level	Recovery %			Limits %		Flags	
	MS	MSD	Sample	ug/L	MS	MSD	RPD	Rec.	RPD	MS	MSD
Methyl tert-butyl ether	18.8	18.9	ND	25	75.2	75.6	0.5	65-165	20		
Benzene	16.4	20.6	ND	25	65.6	82.4	22.7	69-129	20	M5	R1
Toluene	21.1	20.2	ND	25	84.4	80.8	4.4	70-130	20		
Surrogate(s)											
1,2-Dichloroethane-d4	481	460		500	96.2	92.0		73-130			
Toluene-d8	481	453		500	96.2	90.6		81-114			

Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

Blaine Tech Services, Inc.
Attn.: Leon Gearhart

1680 Rogers Avenue
San Jose, CA 95112-1105
Phone: (408) 573-0555 Fax: (408) 573-7771

Project: BTS#050721-PM1
98995328

Received: 07/22/2005 16:01

Site: 11989 Dublin Boulevard, Dublin

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Matrix Spike (MS / MSD) **Water** **QC Batch # 2005/07/31-1C.64**

MW-1 >> MS

Lab ID: 2005-07-0668 - 001

MS: 2005/07/31-1C.64-036 Extracted: 07/31/2005 Analyzed: 07/31/2005 09:36

Dilution: 1.00

MSD: 2005/07/31-1C.64-001 Extracted: 07/31/2005 Analyzed: 07/31/2005 10:01

Dilution: 1.00

Compound	Conc. ug/L			Spk.Level	Recovery %			Limits %		Flags	
	MS	MSD	Sample	ug/L	MS	MSD	RPD	Rec.	RPD	MS	MSD
Methyl tert-butyl ether	28.2	26.3	ND	25	112.8	105.2	7.0	65-165	20		
Benzene	27.4	25.3	ND	25	109.6	101.2	8.0	69-129	20		
Toluene	30.1	28.2	ND	25	120.4	112.8	6.5	70-130	20		
Surrogate(s)											
1,2-Dichloroethane-d4	490	474		500	98.1	94.8		73-130			
Toluene-d8	436	410		500	87.2	82.0		81-114			

Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

Blaine Tech Services, Inc.

Attn.: Leon Gearhart

1680 Rogers Avenue
San Jose, CA 95112-1105
Phone: (408) 573-0555 Fax: (408) 573-7771

Project: BTS#050721-PM1
98995328

Received: 07/22/2005 16:01

Site: 11989 Dublin Boulevard, Dublin

Legend and Notes

Analysis Flag

L2

Reporting limits were raised due to high level of analyte present in the sample.

Result Flag

M5

MS/MSD spike recoveries were below acceptance limits. See blank spike (LCS).

R1

Analyte RPD was out of QC limits.

LAB: STL

SHELL Chain Of Custody Record

116276

Lab Identification (if necessary):
Address:
City, State, Zip:

Shell Project Manager to be invoiced:

- [x] SCIENCE & ENGINEERING
- [ ] TECHNICAL SERVICES
- [ ] CRMT HOUSTON

Denis Brown

2005-07-0668

INCIDENT NUMBER (S&E ONLY): 9 8 9 9 5 3 2 8

SAP or CRMT NUMBER (TS/CRMT):

DATE: 7-21-05

PAGE: 1 of 1

SAMPLING COMPANY: Blaine Tech Services

LOG CODE: BTSS

SITE ADDRESS (Street and City): 11989 Dublin Boulevard, Dublin

GLOBAL ID NO.: T0600102083

ADDRESS: 1680 Rogers Avenue, San Jose, CA 95112

EDF DELIVERABLE TO (Responsible Party or Designee): Vera Fischer

PHONE NO.: (408) 224-4724

E-MAIL: vfischer@deltaenv.com

CONSULTANT PROJECT NO.: BTS # 050721-PM1

PROJECT CONTACT (Hardcopy or PDF Report to): Leon Gearhart

SAMPLER NAME(S) (Print): Paul Monroe

LAB USE ONLY

TELEPHONE: 408-573-0555

FAX: 408-573-7771

E-MAIL: lgearhart@blainetech.com

TURNAROUND TIME (BUSINESS DAYS): [x] 10 DAYS [ ] 5 DAYS [ ] 72 HOURS [ ] 48 HOURS [ ] 24 HOURS [ ] LESS THAN 24 HOURS

[ ] LA - RWQCB REPORT FORMAT [ ] UST AGENCY:

GC/MS MTBE CONFIRMATION: HIGHEST ____ HIGHEST per BORING ____ ALL ____

SPECIAL INSTRUCTIONS OR NOTES: CHECK BOX IF EDD IS NOT NEEDED [ ]

REQUESTED ANALYSIS

FIELD NOTES: Container/Preservative or PID Readings or Laboratory Notes

3°C

TEMPERATURE ON RECEIPT C°

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	TPH - Gas, Purgeable	BTEX	MTBE (8021B - 5ppb RL)	MTBE (8260B - 0.5ppb RL)	Oxygenates (5) by (8260B)	Ethanol (8260B)	Methanol	1,2-DCA (8260B)	EDB (8260B)		TPH - Diesel, Extractable (8015m)									FIELD NOTES
✓	mw-1	7/21/05	1000	H2O	3	X	X		X																
✓	mw-2	↓	1015	↓	3	X	X			X															
✓	mw-3	↓	1110	↓	3	X	X			X															
✓	mw-4	↓	750	↓	3	X	X			X															

Relinquished by: (Signature)	Received by: (Signature)	Date	Time
Paul Monroe	Cynthia [illegible] Sample Custodian	7/21/05	1539
Cynthia [illegible] Sample Custodian	[signature]	7/22/05	1601
[signature] 7/22/05 1832	[signature]	7/22/05	1832

DISTRIBUTION: White with final report, Green to File, Yellow and Pink to Client.

10/16/00 Revision

DAO Graphic (714) 693-9702

WELLHEAD INSPECTION CHECKLIST

Date 7-21-05 Client SHELL 98995328

Site Address 11989 Dublin Blvd., Dublin

Job Number 050721-PM Technician Paul Monroe

Well ID	Well Inspected - No Corrective Action Required	Water Bailed From Wellbox	Wellbox Components Cleaned	Cap Replaced	Debris Removed From Wellbox	Lock Replaced	Other Action Taken (explain below)	Well Not Inspected (explain below)
MW-1	X							
MW-2	X							
MW-3	X							
MW-4	X							

NOTES:

WELL GAUGING DATA

Project # 050721-PM1 Date 7-21-05 Client SHELL 98995328

Site 11989 Dublin Blvd.

Well ID	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	
MW-1	4					6.14	19.85	TOC	
MW-2	4					22.72	32.70	↓	
MW-3	4					22.95	32.83		
MW-4	2					25.55	35.00		

SHELL WELL MONITORING DATA SHEET

BTS #: 050721-PM1	Site: SHELL 9899 5328
Sampler: PM	Date: 7-21-05
Well I.D.: MW-1	Well Diameter: 2 3 (4) 6 8 ___
Total Well Depth (TD): 19.85	Depth to Water (DTW): 6.14
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]: 8.89	

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: ___

8.9 (Gals.) X 3 = 26.7 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
855	73.7	7.4	1109	63	8.9	clear
857	73.8	6.8	1117	46	17.8	"
	Dewatered @		22.8 gal	DTW=	13.90	
1000	71.9	7.8	1127	30		clear

Did well dewater? (Yes) No Gallons actually evacuated: 22.8

Sampling Date: 7-21-05 Sampling Time: 1000 Depth to Water: 8.12

Sample I.D.: MW-1 Laboratory: (STL) Other ___

Analyzed for: (TPH-G) (BTEX) MTBE TPH-D Other: see Scope

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 #: 050721-PM1	Site: SHELL 98995328
Sampler: PM	Date: 7-21-05
Well I.D.: MW-2	Well Diameter: 2 3 (4) 6 8 ___
Total Well Depth (TD): 32.70	Depth to Water (DTW): 22.72
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]: 24.72	

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:

6.5 (Gals.) X 3 = 19.5 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
923	70.8	7.5	1127	76	6.5	clear/odor
925	72.2	6.9	1155	69	13	"
928	72.6	7.1	1154	86	19.5	"
			DTW = 22.10 @ 933			

Did well dewater? Yes (No) Gallons actually evacuated: 19.5

Sampling Date: 7-21-05 Sampling Time: 1015 Depth to Water: 22.92

Sample I.D.: MW-2 Laboratory: (STL) Other_____

Analyzed for: (TPH-G) (BTEX) MTBE TPH-D Other: See Scope

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 #: 050721-PM1	Site: SHELL 98995328
Sampler: PM	Date: 7-21-05
Well I.D.: MW-3	Well Diameter: 2 3 (4) 6 8 ____
Total Well Depth (TD): 32.83	Depth to Water (DTW): 22.95
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]: 24.93	

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: ____

6.4 (Gals.) X 3 = 19.2 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
947	71.0	7.4	1225	61	6.4	clear
949	71.7	7.1	1238	39	12.8	"
	Dewatered @ 14 gal DTW = 30.43 @ 954					
1110	74.0	7.6	1202	37		

Did well dewater? (Yes) No — Gallons actually evacuated: 14

Sampling Date: 7-21-05 — Sampling Time: 1110 — Depth to Water: 24.93

Sample I.D.: MW-3 — Laboratory: (STL) Other____

Analyzed for: (TPH-G) (BTEX) MTBE TPH-D Other: see Scope

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 #: 050721-PM1	Site: SHELL 98995328
Sampler: PM	Date: 7-21-05
Well I.D.: MW-4	Well Diameter: (2) 3 4 6 8 ____
Total Well Depth (TD): 35.00	Depth to Water (DTW): 25.55
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]: 27.44	

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: _____

1.5 (Gals.) X 3 = 4.5 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
724	69.9		1075	47	1.5	clear
731	70.9	6.6	1118	223	3	"
738	70.9	6.4	1130	175	4.5	"

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

Sampling Date: 7-21-05 Sampling Time: 750 Depth to Water: 27.34

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

Analyzed for: (TPH-G) (BTEX) MTBE TPH-D Other: see sheet

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

SITE INSPECTION CHECKLIST

Client Shell Date 6-30-05

Site Address 11989 Dublin Blvd, Dublin

Job Number 050630AA3 Technician Andrew Adinolfi

Site Status Shell Branded Station Vacant Lot Other

Inspected / Labeled / Cleaned - All Wells on Scope Of Work	☒	
Inspected / Cleaned Components - All Other Identifiable Wells	☒	N/A
Inspected Site for Investigation Related Trip Hazards	☒	
Addressed All Outstanding Wellhead Repair Order(s)	☐	N/A
Completed Repair Data Sheets(s)	☒	N/A
Inspected Treatment / Remediation System Compound For Security, Cleanliness and Appearance	☐	N/A
Inspected Vacant Lot for Signs of Habitation, Hazardous Materials or Terrain, Overgrown Vegetation and Security	☒	N/A

PLEASE BE ADVISED THAT, UNLESS OTHERWISE INSTRUCTED, NO REPAIRS ARE PLANNED FOR THE ISSUES DESCRIBED BELOW

Outstanding Problems / Comments (In addition to other issues, note all SOW wellboxes that, by design, are not securable)

PROJECT COORDINATOR ONLY

Checklist Reviewed LG 7/6/05 Initial/Date Notes

Repair Data Sheet

Client Shell Date 6-30-05

Site Address 11989 Dublin Blvd, Dublin

Job Number 050630AA3 Technician Andrew Adinolfi

Inspection Point (Well ID or description of location)	Well Inspected, Cleaned, Labeled - No Further Corrective Action Required	Replaced Cap	Replaced Lock	Replaced Lid Seal	Check Indicates deficiency: Casing	Annular Seal	Tabs / Bolts	Box Structure	Apron	Trip Hazard	Below Grade	Other Deficiency	Lid Not Securable By Design (List Type)	Well Not Inspected (explain in notes)	Deficiency Logged on Repair Order	Deficiency Remains Uncorrected/Logged on Site Inspection Checklist	Partial Repair Completed/Outstanding Deficiency Logged on Repair Order	All Repairs Completed
MW-1	X																	✓
Notes: No repairs																		
MW-2	X																	✓
Notes: No repairs																		
MW-3	X																	✓
Notes: No repairs																		
MW-4	X																	
Notes: No repairs																		
Notes:																		
Notes:																		