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Alameda County  
 JUL 21 2005  
 Environmental Health

**Letter of Transmittal**

To: Alameda County Health Care Services Agency Date: 7/20/2005  
 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
20-Jul-05	1	Quarterly Monitoring Report - Second Quarter 2005
		Shell-branded Service Station
		11989 Dublin Boulevard
		Dublin, California

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

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July 20, 2005

Alameda County  
JUL 21 2005  
Environmental Health

Re: **Quarterly Monitoring Reports – Second 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



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175 Bernal Road • Suite 200  
San Jose, California 95119 USA  
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July 20, 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 – Second 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 second 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 April 14, 2005. Depth to groundwater was measured in Wells MW-1 through 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.

A member of:



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-1 through MW-3 has increased by an average of 0.15 feet since last quarter, while the depth to water in Well MW-4 has decreased by 0.75 feet. The groundwater gradient on March 14, 2005 was toward the east at a magnitude of 0.13 feet/feet, consistent with previous data.

MTBE continues to be detected in Wells MW-2 and MW-3 at 1,300 ug/l and 16 ug/l, respectively. MTBE was also detected in Well MW-4 for the first time since fourth quarter 2003 at 6.2 ug/l. MTBE concentrations remain within historic fluctuations. TBA continues to be detected in Wells MW-2 through MW-4 at 15,000 ug/l, 580 ug/l, and 5,800 ug/l, respectively. TBA concentrations remain within historic fluctuations. TPH-G continues to be detected in Wells MW-2 through MW-4 at concentrations ranging from 1,000 ug/l to 8,200 ug/l. The sample from Well MW-4 contained a quantity of unknown hydrocarbon(s) based on gasoline. BTEX compounds were detected in Wells MW-2 and MW-3. Benzene was detected in Wells MW-2 and MW-3 at 170 ug/l and 1.3 ug/l, respectively. 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 submitted a work plan to the Alameda County Health Care Services Agency (ACHCSA) dated February 28, 2005 for additional down-gradient assessment of the MTBE and TBA groundwater plume. Delta and Shell are waiting for approval of the work plan.

## 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.

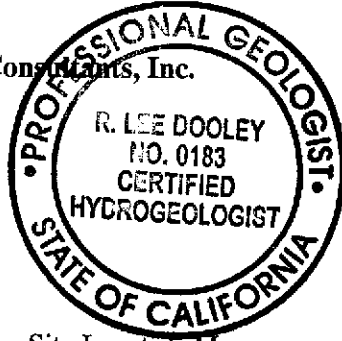
Please call if you have any questions regarding the contents of this letter.

Sincerely,

Delta Environmental Consultants, Inc.

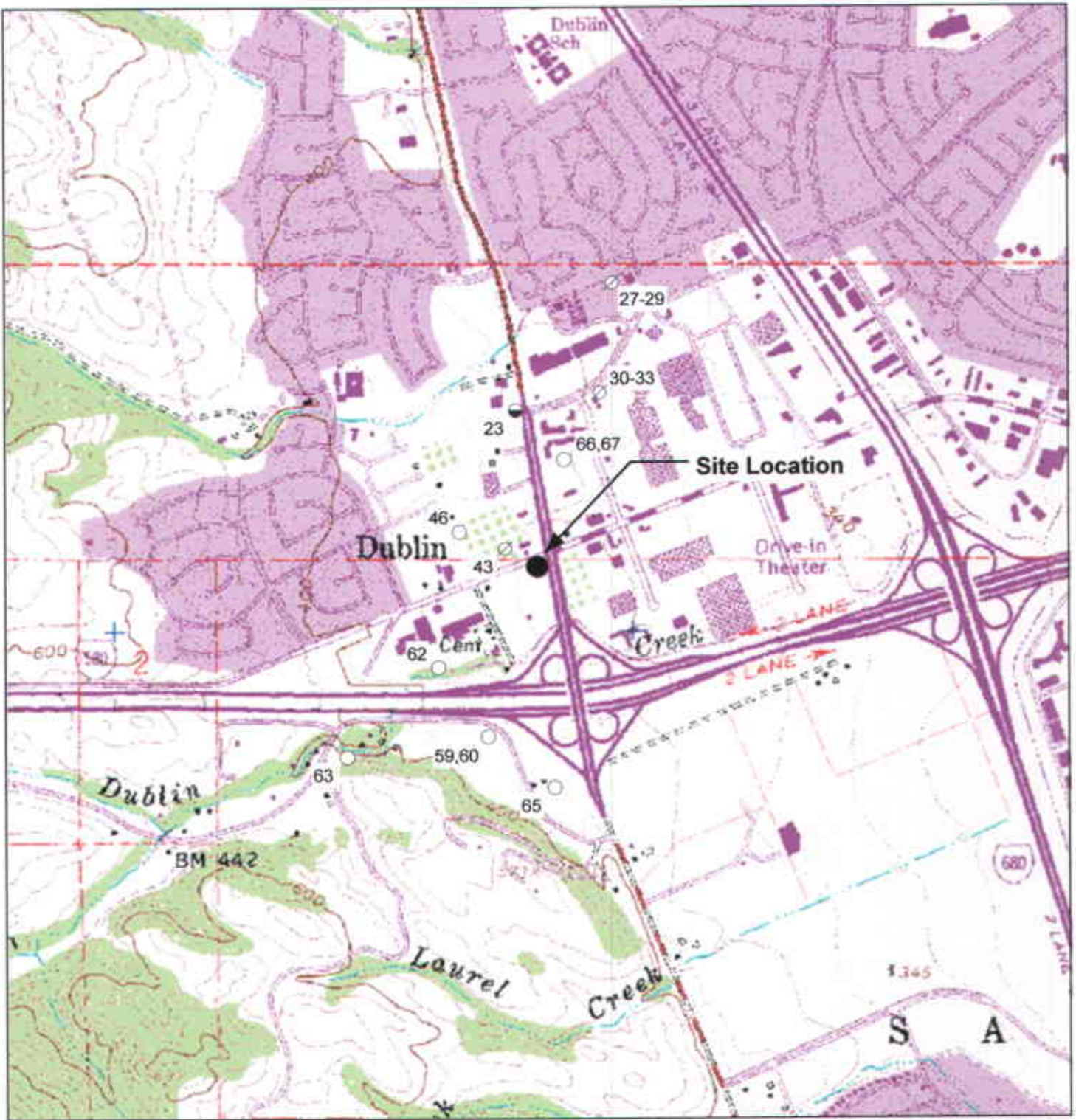


R. Lee Dooley  
Senior Hydrogeologist  
CHG 0183



Attachments: Figure 1 – Site Location Map  
Figure 2 – Groundwater Elevation Contour Map, April 14, 2005  
Figure 3 – Benzene, MTBE, and TBA Concentrations Map, April 14, 2005  
Attachment A – Groundwater Monitoring and Sampling Report, May 6, 2005

cc: Denis Brown, Shell Oil Products US, Carson



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



QUADRANGLE LOCATION

Legend

- Domestic Well
- Irrigation Well
- ⊘ Destroyed/Abandoned Well



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

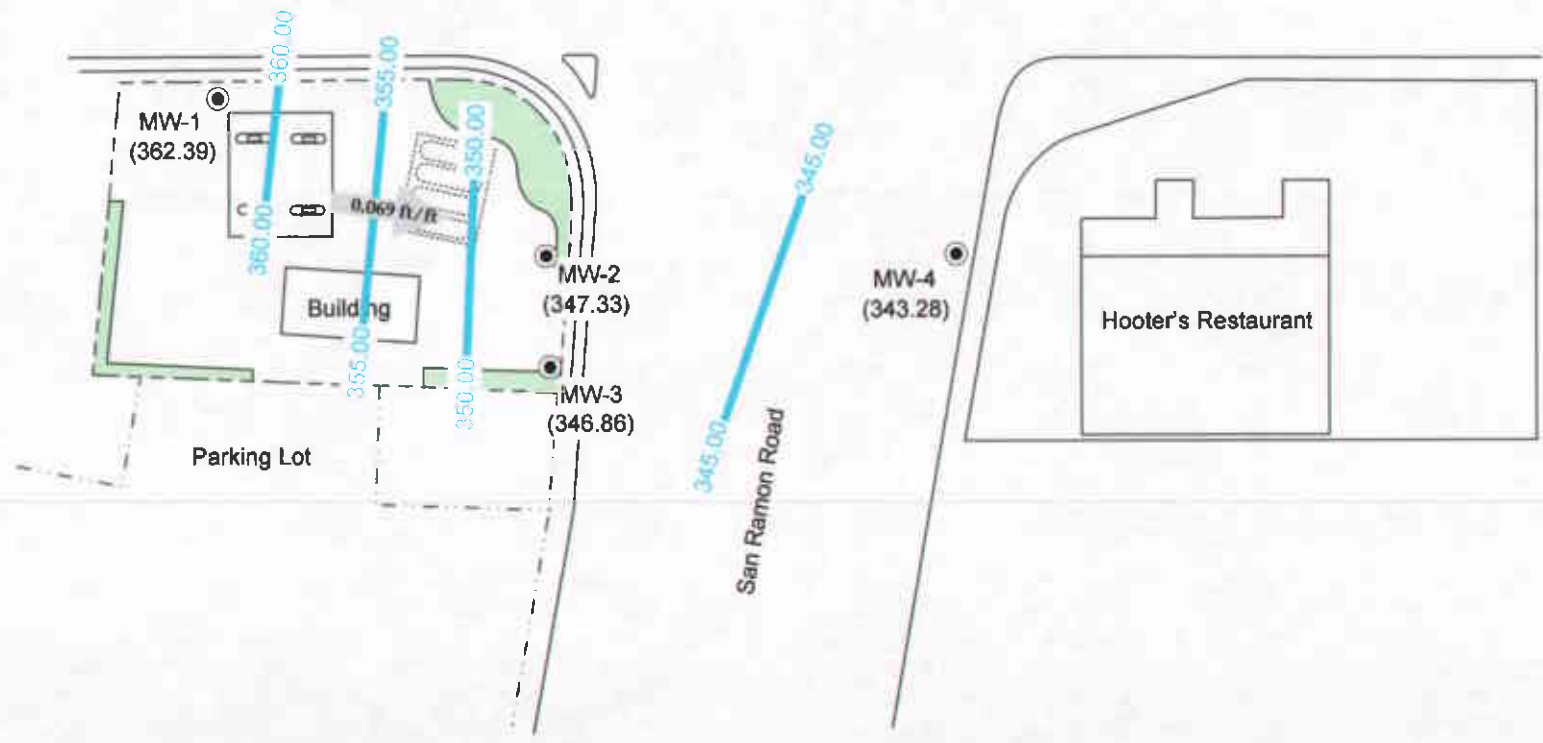




Petsmart

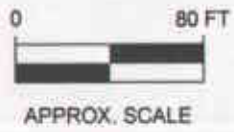
Chevron Service Station  
7007 San Ramon Road

Dublin Boulevard



**LEGEND**

- MW-1 ● **GROUNDWATER MONITORING WELL**
- (342.52) **GROUNDWATER ELEVATION (FEET-MSL), 4/14/05**
- 342.00 — **GROUNDWATER ELEVATION CONTOUR**
- 0.13 ft/ft **APPROXIMATE GROUNDWATER FLOW DIRECTION AND GRADIENT**



**FIGURE 2**  
**GROUNDWATER ELEVATION CONTOUR MAP,**  
**APRIL 14, 2005**

**SHELL-BRANDED SERVICE STATION**  
11989 Dublin Boulevard  
Dublin, California

PROJECT NO. SJ11-999-1.2005 FILE NO. SJ11-999-1.2005 REVISION NO. 2	DRAWN BY V. F. 2/11/05 PREPARED BY V. F. REVIEWED BY
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**Delta**  
Environmental  
Consultants, Inc.



Petsmart

Chevron Service Station  
7007 San Ramon Road

Dublin Boulevard



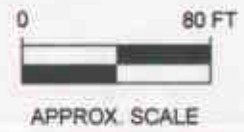
MW-4 <0.50/6.2/5,800

Hooter's Restaurant

San Ramon Road

**LEGEND**

- MW-1 ● **GROUNDWATER MONITORING WELL**
- <0.50/<0.50/3,700 **BENZENE/MTBE/TBA CONCENTRATIONS (UG/L), 4/14/05**
- NA **NOT ANALYZED**



**FIGURE 3**  
**BENZENE, MTBE, AND TBA CONCENTRATIONS MAP,**  
**APRIL 14, 2005**

**SHELL-BRANDED SERVICE STATION**  
 11989 Dublin Boulevard  
 Dublin, California

PROJECT NO. SJ11-999-1 2005	DRAWN BY V. F. 2/11/05
FILE NO. SJ11-999-1 2005	PREPARED BY V. F.
REVISION NO. 2	REVIEWED BY





**Attachment A**

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**GROUNDWATER MONITORING AND SAMPLING REPORT**

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**BLAINE**  
**TECH SERVICES** INC.

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GROUNDWATER SAMPLING SPECIALISTS  
SINCE 1985

May 6, 2005

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

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

Monitoring performed on April 14, 2005

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Groundwater Monitoring Report **050414-MN-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-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
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

**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	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	1700	<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-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
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

**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	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
<b>MW-3</b>	<b>4/14/2005</b>	<b>1,100</b>	<b>NA</b>	<b>1.3</b>	<b>&lt;0.50</b>	<b>&lt;0.50</b>	<b>&lt;1.0</b>	<b>NA</b>	<b>16</b>	<b>&lt;2.0</b>	<b>&lt;2.0</b>	<b>&lt;2.0</b>	<b>580</b>	<b>NA</b>	<b>364.97</b>	<b>18.11</b>	<b>346.86</b>	<b>NA</b>
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
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

**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	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

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)
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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.



**Blaine Tech Services, Inc.**

May 03, 2005

1680 Rogers Avenue  
San Jose, CA 95112-1105  
Attn.: Leon Gearhart  
Project#: 050414-MN1  
Project: 98995328  
Site: 11989 Dublin Boulevard, Dublin

Dear Mr. Gearhart,

Attached is our report for your samples received on 04/15/2005 15:53  
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  
05/30/2005 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](mailto:mbrewer@stl-inc.com)

Sincerely,



Melissa Brewer  
Project Manager

**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: 050414-MN1

98995328

Received: 04/15/2005 15:53

Site: 11989 Dublin Boulevard, Dublin

**Samples Reported**

Sample Name	Date Sampled	Matrix	Lab #
MW-1	04/14/2005 13:06	Water	1
MW-2	04/14/2005 13:24	Water	2
MW-3	04/14/2005 13:43	Water	3
MW-4	04/14/2005 11:39	Water	4

Severn Trent Laboratories, Inc.

STL San Francisco \* 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 \* www.stl-inc.com \* CA DHS ELAP# 2496

05/02/2005 15:19

**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: 050414-MN1  
98995328

Received: 04/15/2005 15:53

Site: 11989 Dublin Boulevard, Dublin

Prep(s): 5030B	Test(s): 8260B
Sample ID: MW-1	Lab ID: 2005-04-0542 - 1
Sampled: 04/14/2005 13:06	Extracted: 4/27/2005 19:00
Matrix: Water	QC Batch#: 2005/04/27-2A.68
pH: <2	

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	ND	50	ug/L	1.00	04/27/2005 19:00	
Benzene	ND	0.50	ug/L	1.00	04/27/2005 19:00	
Toluene	ND	0.50	ug/L	1.00	04/27/2005 19:00	
Ethylbenzene	ND	0.50	ug/L	1.00	04/27/2005 19:00	
Total xylenes	ND	1.0	ug/L	1.00	04/27/2005 19:00	
Methyl tert-butyl ether (MTBE)	ND	0.50	ug/L	1.00	04/27/2005 19:00	
<b>Surrogate(s)</b>						
1,2-Dichloroethane-d4	103.1	73-130	%	1.00	04/27/2005 19:00	
Toluene-d8	98.5	81-114	%	1.00	04/27/2005 19:00	

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

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San Jose, CA 95112-1105

Phone: (408) 573-0555 Fax: (408) 573-7771

Project: 050414-MN1

98995328

Received: 04/15/2005 15:53

Site: 11989 Dublin Boulevard, Dublin

Prep(s): 5030B	Test(s): 8260B
Sample ID: MW-2	Lab ID: 2005-04-0542 - 2
Sampled: 04/14/2005 13:24	Extracted: 4/28/2005 16:05
Matrix: Water	QC Batch#: 2005/04/28-1A.62
Analysis Flag: L2, pH: <2 ( See Legend and Note Section )	

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	8200	1000	ug/L	20.00	04/28/2005 16:05	
Benzene	170	10	ug/L	20.00	04/28/2005 16:05	
Toluene	ND	10	ug/L	20.00	04/28/2005 16:05	
Ethylbenzene	92	10	ug/L	20.00	04/28/2005 16:05	
Total xylenes	ND	20	ug/L	20.00	04/28/2005 16:05	
tert-Butyl alcohol (TBA)	15000	100	ug/L	20.00	04/28/2005 16:05	
Methyl tert-butyl ether (MTBE)	1300	10	ug/L	20.00	04/28/2005 16:05	
Di-isopropyl Ether (DIPE)	ND	40	ug/L	20.00	04/28/2005 16:05	
Ethyl tert-butyl ether (ETBE)	ND	40	ug/L	20.00	04/28/2005 16:05	
tert-Amyl methyl ether (TAME)	ND	40	ug/L	20.00	04/28/2005 16:05	
<b>Surrogate(s)</b>						
1,2-Dichloroethane-d4	121.0	73-130	%	20.00	04/28/2005 16:05	
Toluene-d8	110.1	81-114	%	20.00	04/28/2005 16:05	

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

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Project: 050414-MN1  
98995328

Received: 04/15/2005 15:53

Site: 11989 Dublin Boulevard, Dublin

Prep(s): 5030B	Test(s): 8260B
Sample ID: MW-3	Lab ID: 2005-04-0542 - 3
Sampled: 04/14/2005 13:43	Extracted: 4/28/2005 16:31
Matrix: Water	QC Batch#: 2005/04/28-1A.62
pH: <2	

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	1100	50	ug/L	1.00	04/28/2005 16:31	
Benzene	1.3	0.50	ug/L	1.00	04/28/2005 16:31	
Toluene	ND	0.50	ug/L	1.00	04/28/2005 16:31	
Ethylbenzene	ND	0.50	ug/L	1.00	04/28/2005 16:31	
Total xylenes	ND	1.0	ug/L	1.00	04/28/2005 16:31	
tert-Butyl alcohol (TBA)	580	5.0	ug/L	1.00	04/28/2005 16:31	
Methyl tert-butyl ether (MTBE)	16	0.50	ug/L	1.00	04/28/2005 16:31	
Di-isopropyl Ether (DIPE)	ND	2.0	ug/L	1.00	04/28/2005 16:31	
Ethyl tert-butyl ether (ETBE)	ND	2.0	ug/L	1.00	04/28/2005 16:31	
tert-Amyl methyl ether (TAME)	ND	2.0	ug/L	1.00	04/28/2005 16:31	
<b>Surrogate(s)</b>						
1,2-Dichloroethane-d4	116.9	73-130	%	1.00	04/28/2005 16:31	
Toluene-d8	111.0	81-114	%	1.00	04/28/2005 16:31	

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

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Project: 050414-MN1  
98995328

Received: 04/15/2005 15:53

Site: 11989 Dublin Boulevard, Dublin

Prep(s):	5030B	Test(s):	8260B
Sample ID:	MW-4	Lab ID:	2005-04-0542 - 4
Sampled:	04/14/2005 11:39	Extracted:	4/28/2005 16:57 4/30/2005 02:10
Matrix:	Water	QC Batch#:	2005/04/28-1A.62 2005/04/29-2A.66
Analysis Flag: L2 ( See Legend and Note Section )			

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	1000	50	ug/L	1.00	04/28/2005 16:57	Q1
Benzene	ND	0.50	ug/L	1.00	04/28/2005 16:57	
Toluene	ND	0.50	ug/L	1.00	04/28/2005 16:57	
Ethylbenzene	ND	0.50	ug/L	1.00	04/28/2005 16:57	
Total xylenes	ND	1.0	ug/L	1.00	04/28/2005 16:57	
tert-Butyl alcohol (TBA)	5800	100	ug/L	20.00	04/30/2005 02:10	H2
Methyl tert-butyl ether (MTBE)	6.2	0.50	ug/L	1.00	04/28/2005 16:57	
Di-isopropyl Ether (DIPE)	ND	2.0	ug/L	1.00	04/28/2005 16:57	
Ethyl tert-butyl ether (ETBE)	ND	2.0	ug/L	1.00	04/28/2005 16:57	
tert-Amyl methyl ether (TAME)	ND	2.0	ug/L	1.00	04/28/2005 16:57	
<b>Surrogate(s)</b>						
1,2-Dichloroethane-d4	103.1	73-130	%	20.00	04/30/2005 02:10	
1,2-Dichloroethane-d4	115.3	73-130	%	1.00	04/28/2005 16:57	
Toluene-d8	102.1	81-114	%	20.00	04/30/2005 02:10	
Toluene-d8	106.1	81-114	%	1.00	04/28/2005 16:57	

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

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Project: 050414-MN1

98995328

Received: 04/15/2005 15:53

Site: 11989 Dublin Boulevard, Dublin

**Batch QC Report**

Prep(s): 5030B

Method Blank

MB: 2005/04/27-2A.68-021

Water

Test(s): 8260B

QC Batch # 2005/04/27-2A.68

Date Extracted: 04/27/2005 17:21

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline [Shell]	ND	50	ug/L	04/27/2005 17:21	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	04/27/2005 17:21	
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	04/27/2005 17:21	
Di-isopropyl Ether (DIPE)	ND	2.0	ug/L	04/27/2005 17:21	
Ethyl tert-butyl ether (ETBE)	ND	2.0	ug/L	04/27/2005 17:21	
tert-Amyl methyl ether (TAME)	ND	2.0	ug/L	04/27/2005 17:21	
Benzene	ND	0.5	ug/L	04/27/2005 17:21	
Toluene	ND	0.5	ug/L	04/27/2005 17:21	
Ethylbenzene	ND	0.5	ug/L	04/27/2005 17:21	
Total xylenes	ND	1.0	ug/L	04/27/2005 17:21	
<b>Surrogates(s)</b>					
1,2-Dichloroethane-d4	94.6	73-130	%	04/27/2005 17:21	
Toluene-d8	99.2	81-114	%	04/27/2005 17:21	

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

Blaine Tech Services, Inc.

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Phone: (408) 573-0555 Fax: (408) 573-7771

Project: 050414-MN1  
98995328

Received: 04/15/2005 15:53

Site: 11989 Dublin Boulevard, Dublin

**Batch QC Report**

Prep(s): 5030B

Test(s): 8260B

Method Blank

Water

QC Batch # 2005/04/28-1A.62

MB: 2005/04/28-1A.62-042

Date Extracted: 04/28/2005 07:42

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline [Shell]	ND	50	ug/L	04/28/2005 07:42	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	04/28/2005 07:42	
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	04/28/2005 07:42	
Di-isopropyl Ether (DIPE)	ND	2.0	ug/L	04/28/2005 07:42	
Ethyl tert-butyl ether (ETBE)	ND	2.0	ug/L	04/28/2005 07:42	
tert-Amyl methyl ether (TAME)	ND	2.0	ug/L	04/28/2005 07:42	
Benzene	ND	0.5	ug/L	04/28/2005 07:42	
Toluene	ND	0.5	ug/L	04/28/2005 07:42	
Ethylbenzene	ND	0.5	ug/L	04/28/2005 07:42	
Total xylenes	ND	1.0	ug/L	04/28/2005 07:42	
<b>Surrogates(s)</b>					
1,2-Dichloroethane-d4	112.4	73-130	%	04/28/2005 07:42	
Toluene-d8	103.0	81-114	%	04/28/2005 07:42	

Severn Trent Laboratories, Inc.

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05/02/2005 15:19



**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: 050414-MN1

98995328

Received: 04/15/2005 15:53

Site: 11989 Dublin Boulevard, Dublin

**Batch QC Report**

Prep(s): 5030B

Method Blank

MB: 2005/04/29-2A.66-005

Water

Test(s): 8260B

QC Batch # 2005/04/29-2A.66

Date Extracted: 04/29/2005 21:05

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline [Shell]	ND	50	ug/L	04/29/2005 21:05	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	04/29/2005 21:05	
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	04/29/2005 21:05	
Di-isopropyl Ether (DIPE)	ND	2.0	ug/L	04/29/2005 21:05	
Ethyl tert-butyl ether (ETBE)	ND	2.0	ug/L	04/29/2005 21:05	
tert-Amyl methyl ether (TAME)	ND	2.0	ug/L	04/29/2005 21:05	
Benzene	ND	0.5	ug/L	04/29/2005 21:05	
Toluene	ND	0.5	ug/L	04/29/2005 21:05	
Ethylbenzene	ND	0.5	ug/L	04/29/2005 21:05	
Total xylenes	ND	1.0	ug/L	04/29/2005 21:05	
<b>Surrogates(s)</b>					
1,2-Dichloroethane-d4	93.8	73-130	%	04/29/2005 21:05	
Toluene-d8	101.4	81-114	%	04/29/2005 21:05	

Severn Trent Laboratories, Inc.

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**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: 050414-MN1

98995328

Received: 04/15/2005 15:53

Site: 11989 Dublin Boulevard, Dublin

**Batch QC Report**

Prep(s): 5030B

Test(s): 8260B

**Laboratory Control Spike**

**Water**

**QC Batch # 2005/04/27-2A.68**

LCS 2005/04/27-2A.68-003

Extracted: 04/27/2005

Analyzed: 04/27/2005 17:03

LCSD

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Methyl tert-butyl ether (MTBE)	22.4		25	89.6			65-165	20		
Benzene	23.6		25	94.4			69-129	20		
Toluene	26.6		25	106.4			70-130	20		
<b>Surrogates(s)</b>										
1,2-Dichloroethane-d4	432		500	86.4			73-130			
Toluene-d8	506		500	101.2			81-114			

Severn Trent Laboratories, Inc.

STL San Francisco \* 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 \* www.stl-inc.com \* CA DHS ELAP# 2496

05/02/2005 15:19

**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: 050414-MN1  
98995328

Received: 04/15/2005 15:53

Site: 11989 Dublin Boulevard, Dublin

**Batch QC Report**

Prep(s): 5030B

Test(s): 8260B

Laboratory Control Spike

Water

QC Batch # 2005/04/28-1A.62

LCS 2005/04/28-1A.62-016

Extracted: 04/28/2005

Analyzed: 04/28/2005 07:16

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)	19.8		25	79.2			65-165	20		
Benzene	26.2		25	104.8			69-129	20		
Toluene	27.7		25	110.8			70-130	20		
<b>Surrogates(s)</b>										
1,2-Dichloroethane-d4	505		500	101.0			73-130			
Toluene-d8	514		500	102.8			81-114			

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

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Project: 050414-MN1  
98995328

Received: 04/15/2005 15:53

Site: 11989 Dublin Boulevard, Dublin

**Batch QC Report**

Prep(s): 5030B

Test(s): 8260B

**Laboratory Control Spike**

**Water**

**QC Batch # 2005/04/29-2A.66**

LCS 2005/04/29-2A.66-030

Extracted: 04/29/2005

Analyzed: 04/29/2005 21:30

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)	22.0		25	88.0			65-165	20		
Benzene	21.8		25	87.2			69-129	20		
Toluene	25.3		25	101.2			70-130	20		
<b>Surrogates(s)</b>										
1,2-Dichloroethane-d4	423		500	84.6			73-130			
Toluene-d8	510		500	102.0			81-114			

Sewern Trent Laboratories, Inc.

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05/02/2005 15:19

**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: 050414-MN1  
98995328

Received: 04/15/2005 15:53

Site: 11989 Dublin Boulevard, Dublin

**Batch QC Report**

Prep(s): 5030B Test(s): 8260B

**Matrix Spike ( MS / MSD )** **Water** **QC Batch # 2005/04/27-2A.68**

MS/MSD Lab ID: 2005-04-0438 - 002

MS: 2005/04/27-2A.68-043 Extracted: 04/27/2005 Analyzed: 04/27/2005 21:43

Dilution: 1.00

MSD: 2005/04/27-2A.68-001 Extracted: 04/27/2005 Analyzed: 04/27/2005 22:01

Dilution: 1.00

Compound	Conc. ug/L			Spk.Level ug/L	Recovery %			Limits %		Flags	
	MS	MSD	Sample		MS	MSD	RPD	Rec.	RPD	MS	MSD
Methyl tert-butyl ether	33.4	34.8	11	25	89.6	95.2	6.1	65-165	20		
Benzene	23.7	23.3	0.548	25	92.6	91.0	1.7	69-129	20		
Toluene	37.2	37.2	12.7	25	98.0	98.0	0.0	70-130	20		
<b>Surrogate(s)</b>											
1,2-Dichloroethane-d4	433	471		500	86.6	94.2		73-130			
Toluene-d8	498	488		500	99.6	97.6		81-114			

Severn Trent Laboratories, Inc.

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05/02/2005 15:19

**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: 050414-MN1

98995328

Received: 04/15/2005 15:53

Site: 11989 Dublin Boulevard, Dublin

**Batch QC Report**

Prep(s): 5030B

Test(s): 8260B

**Matrix Spike (MS / MSD)**

**Water**

**QC Batch # 2005/04/28-1A.62**

**MS/MSD**

Lab ID: 2005-04-0561 - 001

MS: 2005/04/28-1A.62-040

Extracted: 04/28/2005

Analyzed: 04/28/2005 11:40

Dilution: 1.00

MSD: 2005/04/28-1A.62-007

Extracted: 04/28/2005

Analyzed: 04/28/2005 12:07

Dilution: 1.00

Compound	Conc. ug/L		Spk.Level	Recovery %			Limits %		Flags		
	MS	MSD		Sample	ug/L	MS	MSD	RPD	Rec.	RPD	MS
Methyl tert-butyl ether	22.6	23.7	ND	25	90.4	94.8	4.8	65-165	20		
Benzene	27.7	26.7	ND	25	110.8	106.8	3.7	69-129	20		
Toluene	27.6	27.7	ND	25	110.4	110.8	0.4	70-130	20		
<b>Surrogate(s)</b>											
1,2-Dichloroethane-d4	529	537		500	105.8	107.4		73-130			
Toluene-d8	506	521		500	101.2	104.2		81-114			

Severn Trent Laboratories, Inc.

STL San Francisco \* 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 \* www.stl-inc.com \* CA DHS ELAP# 2496

05/02/2005 15:19

**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: 050414-MN1  
98995328

Received: 04/15/2005 15:53

Site: 11989 Dublin Boulevard, Dublin

**Batch QC Report**

Prep(s): 5030B Test(s): 8260B

**Matrix Spike ( MS / MSD )** **Water** **QC Batch # 2005/04/29-2A.66**

MS/MSD Lab ID: 2005-04-0641 - 001  
 MS: 2005/04/29-2A.66-021 Extracted: 04/29/2005 Analyzed: 04/29/2005 22:21 Dilution: 1.00  
 MSD: 2005/04/29-2A.66-046 Extracted: 04/29/2005 Analyzed: 04/29/2005 22:46 Dilution: 1.00

Compound	Conc. ug/L			Spk.Level ug/L	Recovery %			Limits %		Flags	
	MS	MSD	Sample		MS	MSD	RPD	Rec.	RPD	MS	MSD
Methyl tert-butyl ether	20.2	19.5	ND	25	80.8	78.0	3.5	65-165	20		
Benzene	16.7	16.9	1.04	25	62.6	63.4	1.3	69-129	20	M5	M5
Toluene	20.7	19.6	0.549	25	80.6	76.2	5.6	70-130	20		
<b>Surrogate(s)</b>											
1,2-Dichloroethane-d4	438	437		500	87.6	87.4		73-130			
Toluene-d8	517	496		500	103.4	99.2		81-114			

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

Blaine Tech Services, Inc.

Attn.: Leon Gearhart

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San Jose, CA 95112-1105

Phone: (408) 573-0555 Fax: (408) 573-7771

Project: 050414-MN1

98995328

Received: 04/15/2005 15:53

Site: 11989 Dublin Boulevard, Dublin

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**Legend and Notes**

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**Analysis Flag**

L2

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

**Result Flag**

H2

Analyzed out of holding time.

M5

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

Q1

Quantit. of unknown hydrocarbon(s) in sample based on gasoline.



LAB: STC

# SHELL Chain Of Custody Record

114270

Lab Identification (if necessary):

Address:

City, State, Zip:

Shell Project Manager to be invoiced:

- SCIENCE & ENGINEERING
- TECHNICAL SERVICES
- CRMT HOUSTON

Denis Brown

2005-04-0542

INCIDENT NUMBER (S&E ONLY)

9 8 9 9 5 3 2 8

SAP or CRMT NUMBER (TS/CRMT)

DATE: 4/4/05

PAGE: 1 of 1

SAMPLING COMPANY: **Blaine Tech Services**  
 ADDRESS: **1660 Rogers Avenue, San Jose, CA 95112**  
 PROJECT CONTACT (thru phone or PDF Request):  
**Leon Gearhart**  
 TELEPHONE: **408-573-0555** FAX: **408-573-7771** E-MAIL: **lgearhart@blainetech.com**

SITE ADDRESS (Street and City): **11989 Dublin Boulevard, Dublin**  
 GLOBAL ID NO.: **T0600102083**  
 EQUIP DELIVERABLE TO (Responsible Party or Director):  
**Vera Fischer** (408) 224-4724 v.fischer@dellaenv.com  
 CONSULTANT PROJECT NO.: **05244-TMI**  
 CONTRACTOR PROJECT NO.:  
 CHAPER NAME(S) (PH): **Michael Ninobata**

TURNAROUND TIME (BUSINESS DAYS):  
 10 DAYS  5 DAYS  12 HOURS  48 HOURS  24 HOURS  LESS THAN 24 HOURS  
 LA - RAGGED REPORT FORMAT  LIST AGENCY:  
 SPECIAL INSTRUCTIONS OR NOTES:  CHECK BOX IF ESD IS NOT NEEDED

REQUESTED ANALYSIS

TPH - Gas, Purgeable	BTX	MTBE (R21B) - 5ppb RL)	MTBE (R220B) - 0.5ppb RL)	Oxygenates (5) by (R220B)	Ethanol (R220B)	Methanol	1,2-DCA (R220B)	EDB (R220B)	TPH - Diesel, Extractable (50:50)
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FIELD NOTES:  
 Container/Preservative or PID Readings or Laboratory Notes  
3  
 TEMPERATURE ON RECEIPT °C

LAB USE ONLY	Field Sample Identification	SAMPLING		MATRIX	NO. OF CONT.	TPH - Gas, Purgeable	BTX	MTBE (R21B) - 5ppb RL)	MTBE (R220B) - 0.5ppb RL)	Oxygenates (5) by (R220B)	Ethanol (R220B)	Methanol	1,2-DCA (R220B)	EDB (R220B)	TPH - Diesel, Extractable (50:50)
		DATE	TIME												
	MW-1	4/1/05	1306	Water	3	X	X	X							
	MW-2		1324			X	X		X						
	MW-3		1343			X	X		X						
	MW-4		1139			X	X		X						

Requested by (Signature): *[Signature]* Date: 4/1/05 Time: 1:53  
 Received by (Signature): *[Signature]* Date: 04/15/05 Time: 18:35  
 Requisitioned by (Signature): *[Signature]* Date: 4/15/05 Time: 18:35  
 Received by (Signature): *[Signature]* Date: \_\_\_\_\_ Time: \_\_\_\_\_

# WELLHEAD INSPECTION CHECKLIST

Client Shell Date 4/14/05

Site Address 11989 Dublin Blvd, Dublin

Job Number 050414-MNI Technician MDN + PM

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

NOTES: MW-4 - Run loose

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## WELL GAUGING DATA

Project # 050414-MNI Date 4-14-05 Client SHELL

Site 11989 Dublin Blvd, Dublin

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 <u>TOC</u>
MW-1	4					5.60	19.64	
MW-2	4	odor				18.10	32.29	
MW-3	4					18.11	32.81	
MW-4	2					20.69	34.73	

### SHELL WELL MONITORING DATA SHEET

BTS #: 050414-MN1	Site: 48995328
Sampler: MON & PM	Date: 4/14/05
Well I.D.: MW-1	Well Diameter: 2 3 (4) 6 8
Total Well Depth (TD): 1764	Depth to Water (DTW): 5.60
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]: <del>7.1</del> 8.41	

Purge Method: Bailer Disposable Bailer Positive Air Displacement <input checked="" type="checkbox"/> Electric Submersible	Waterra Peristaltic Extraction Pump Other _____	Sampling Method: <input checked="" type="checkbox"/> Bailer Disposable Bailer Extraction Port Dedicated Tubing Other: _____
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$9.2 \text{ (Gals.)} \times 3 = 27.6 \text{ Gals.}$ Case Volume      Specified Volumes      Calculated Volume	<table border="1" style="width: 100%; border-collapse: collapse; font-size: small;"> <tr> <th>Well Diameter</th> <th>Multiplier</th> <th>Well Diameter</th> <th>Multiplier</th> </tr> <tr> <td>1"</td> <td>0.04</td> <td>4"</td> <td>0.65</td> </tr> <tr> <td>2"</td> <td>0.16</td> <td>6"</td> <td>1.47</td> </tr> <tr> <td>3"</td> <td>0.37</td> <td>Other</td> <td>radius<sup>2</sup> * 0.163</td> </tr> </table>	Well Diameter	Multiplier	Well Diameter	Multiplier	1"	0.04	4"	0.65	2"	0.16	6"	1.47	3"	0.37	Other	radius <sup>2</sup> * 0.163
Well Diameter	Multiplier	Well Diameter	Multiplier														
1"	0.04	4"	0.65														
2"	0.16	6"	1.47														
3"	0.37	Other	radius <sup>2</sup> * 0.163														

Time	Temp (°F)	pH	Cond. (mS or µS)	Turbidity (NTUs)	Gals. Removed	Observations
1209	67.6	6.71	1101	29	9.2	clear
1211	68.8	6.72	1118	59	18.4	clear
1214	68.6	6.74	1102	190	27.6	slight cloudy DTW = 6.63

Did well dewater? Yes <input checked="" type="checkbox"/> No	Gallons actually evacuated: 27.6	
Sampling Date: 4/14/05	Sampling Time: 1306	Depth to Water: 7.84
Sample I.D.: MW-1	Laboratory: STL	Other: _____
Analyzed for: TPH-G BTEX MTBE TPH-D	Other: _____	
EB I.D. (if applicable): _____ @ _____ Time	Duplicate I.D. (if applicable): _____	
Analyzed for: TPH-G BTEX MTBE TPH-D	Other: _____	
D.O. (if req'd): Pre-purge: _____ mg/L	Post-purge: _____ mg/L	
O.R.P. (if req'd): Pre-purge: _____ mV	Post-purge: _____ mV	

## SHELL WELL MONITORING DATA SHEET

BTS #: <u>05D414-MN1</u>	Site: <u>98995328</u>
Sampler: <u>MN &amp; PM</u>	Date: <u>4/14/05</u>
Well I.D.: <u>MW-2</u>	Well Diameter: 2 3 <b>(4)</b> 6 8
Total Well Depth (TD): <u>32.29</u>	Depth to Water (DTW): <u>18.10</u>
Depth to Free Product: <u>—</u>	Thickness of Free Product (feet): <u>—</u>
Referenced to: <b>(PVC)</b> Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: <u>20.938</u>	

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

$9.3 \text{ (Gals.)} \times 3 = 27.9 \text{ Gals.}$ 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 <b>(μS)</b> )	Turbidity (NTUs)	Gals. Removed	Observations
1250	65.5	6.74	1135	11	9.3	clear / odor
1252	67.7	6.66	1137	28	18.6	clear / odor
1254	67.9	6.65	1142	23	27.9	clear / odor DTW = 27.99

Did well dewater?    Yes <b>(No)</b>	Gallons actually evacuated: <u>27.9</u>
Sampling Date: <u>4/14/05</u> Sampling Time: <u>13:24</u> Depth to Water: <u>18.50</u>	
Sample I.D.: <u>MW2</u> Laboratory: <b>(STL)</b> Other: _____	
Analyzed for: <b>(TPH-G)</b> <b>(BTEX)</b> MTBE    TPH-D    Other: <b>(DMS)</b>	
EB I.D. (if applicable):    @    Time    Duplicate I.D. (if applicable):	
Analyzed for:    TPH-G    BTEX    MTBE    TPH-D    Other:	
D.O. (if req'd):    Pre-purge:    mg/L    Post-purge:    mg/L	
O.R.P. (if req'd):    Pre-purge:    mV    Post-purge:    mV	

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

## SHELL WELL MONITORING DATA SHEET

BTS #: <u>050414-MN1</u>	Site: <u>98995328</u>
Sampler: <u>MDN &amp; PM</u>	Date: <u>4/14/05</u>
Well I.D.: <u>MW-3</u>	Well Diameter: 2 3 <u>4</u> 6 8
Total Well Depth (TD): <u>32.81</u>	Depth to Water (DTW): <u>18.11</u>
Depth to Free Product: _____	Thickness of Free Product (feet): _____
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: <u>21.05</u>	

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

$\frac{9.6 \text{ (Gals.)} \times 3}{\text{I Case Volume Specified Volumes}} = \frac{28.7}{\text{Calculated Volume}} \text{ Gals.}$	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Well Diameter</th> <th>Multiplier</th> <th>Well Diameter</th> <th>Multiplier</th> </tr> </thead> <tbody> <tr> <td>1"</td> <td>0.04</td> <td>4"</td> <td>0.65</td> </tr> <tr> <td>2"</td> <td>0.16</td> <td>6"</td> <td>1.47</td> </tr> <tr> <td>3"</td> <td>0.37</td> <td>Other</td> <td>radius<sup>2</sup> * 0.163</td> </tr> </tbody> </table>	Well Diameter	Multiplier	Well Diameter	Multiplier	1"	0.04	4"	0.65	2"	0.16	6"	1.47	3"	0.37	Other	radius <sup>2</sup> * 0.163
Well Diameter	Multiplier	Well Diameter	Multiplier														
1"	0.04	4"	0.65														
2"	0.16	6"	1.47														
3"	0.37	Other	radius <sup>2</sup> * 0.163														

Time	Temp (°F)	pH	Cond. (mS or <u>µS</u> )	Turbidity (NTUs)	Gals. Removed	Observations
1230	67.0	6.69	1227	33	9.6	clear
1232	67.2	6.69	1281	12	19.2	clear / light odor
1238	Well	dewatered				DTW: 30.50
1343	62.8	6.82	1210	8	—	clear / light odor

Did well dewater?  Yes    No                      Gallons actually evacuated: 19.2

Sampling Date: 4/14/05    Sampling Time: 13:43    Depth to Water: 21.04

Sample I.D.: MW-3                      Laboratory: STL    Other \_\_\_\_\_

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 #: 050414 - MNI	Site: 98995328
Sampler: MNI + PM	Date: 4/14/05
Well I.D.: MW-4	Well Diameter: (2) 3 4 6 8
Total Well Depth (TD): 34.73	Depth to Water (DTW): 20.69
Depth to Free Product: _____	Thickness of Free Product (feet): <del>23.3</del>
Referenced to: (PVC) Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 22.34	

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

$\frac{2.3 \text{ (Gals.)} \times 3}{1 \text{ Case Volume Specified Volumes}} = \frac{6.9 \text{ Gals.}}{\text{Calculated Volume}}$	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th>Well Diameter</th> <th>Multiplier</th> <th>Well Diameter</th> <th>Multiplier</th> </tr> <tr> <td>1"</td> <td>0.04</td> <td>4"</td> <td>0.65</td> </tr> <tr> <td>2"</td> <td>0.16</td> <td>6"</td> <td>1.47</td> </tr> <tr> <td>3"</td> <td>0.37</td> <td>Other</td> <td>radius<sup>2</sup> * 0.163</td> </tr> </table>	Well Diameter	Multiplier	Well Diameter	Multiplier	1"	0.04	4"	0.65	2"	0.16	6"	1.47	3"	0.37	Other	radius <sup>2</sup> * 0.163
Well Diameter	Multiplier	Well Diameter	Multiplier														
1"	0.04	4"	0.65														
2"	0.16	6"	1.47														
3"	0.37	Other	radius <sup>2</sup> * 0.163														

Time	Temp (°F)	pH	Cond. (mS or $\mu$ S)	Turbidity (NTUs)	Gals. Removed	Observations
1124	64.9	6.61	1111	519	2.3	Light Brown, cloudy
1129	66.0	6.61	1082	647	4.6	Light Brown, cloudy
1134	66.5	6.66	1065	631	6.9	Light Brown, cloudy

Did well dewater? Yes  No  Gallons actually evacuated: 6.9

Sampling Date: 4/14/05      Sampling Time: 1139      Depth to Water: 22.65

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

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

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