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San Jose, California 95119 USA  
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Fax 408.225.8506

September 6, 2005  
Project No. SJ42-26F-1.2005

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

Re: **Quarterly Monitoring Report – Third Quarter 2005**  
**Shell-branded Service Station**  
**4226 First Street**  
**Pleasanton, 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. Groundwater sampling was performed by Blaine Tech Services (Blaine) at the direction of Delta. A site location map is included as Figure 1.

#### **QUARTERLY GROUND WATER MONITORING PROGRAM**

Groundwater monitoring wells were gauged and sampled by Blaine on August 5, 2005. Depth to groundwater was measured in Wells MW-1 through MW-3. Groundwater elevation data and contours are presented on Figure 2.

Groundwater samples were collected from Wells MW-1 through MW-3. 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); and methyl tert butyl ether (MTBE) using EPA Method 8260B. TPH-G, benzene and MTBE concentrations are presented on Figure 3.

Alameda County  
Environmental Health  
SEP 14 2005



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Alameda County  
SEP 14 2005  
Environmental Health

**Letter of Transmittal**

To:	Alameda County Health Care Services Agency Environmental Health Service - Environmental Protection	Date: 9/9/2005
	1131 Harbor Bay Parkway, Suite 250 Alameda, California 94502-6577	Job No: SJ42-26F-1.2005
Attn:	Jerry Wickham	

We are sending the following items:

Date	Copies	Description
6-Sep-05	1	<b>Quarterly Monitoring Report - Third Quarter 2005</b>
		<b>Shell-branded Service Station</b>
		<b>4226 First Street</b>
		<b>Pleasanton, California</b>

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

The information contained in this transmission is confidential and only intended for the addressee. If you are not the intended recipient, you are hereby notified that any disclosure, copying, distribution or action taken in reliance on the contents of this facsimile transmittal is strictly prohibited. If you have received this facsimile in error, please call us immediately to arrange for the return of these documents.

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 Well MW-1 decreased by 2.97 feet, significant fluctuations in depth to groundwater are typical for this well. The depth to groundwater in Well MW-2 increased by 0.24 feet, and decreased in Well MW-3 by 0.07 feet. The groundwater gradient on August 5, 2005 was towards the northeast at magnitude of 0.05 ft/ft. The gradient is typically to the northwest.

MTBE continues to be detected in all site wells at concentrations ranging from 2.4 micrograms per liter (ug/l) to 480 ug/l. TPH-G and benzene were detected in Well MW-1 at 910 ug/l and 230 ug/l, respectively. Concentrations remain within historic ranges.

In its second quarter 2005 groundwater monitoring and sampling report, Delta proposed prepare an electronic Site Conceptual Model for summarizing existing site data, identifying data gaps, and for development of a work plan for additional site assessment activities. The Site Conceptual Model will be submitted in the Third Quarter 2005.

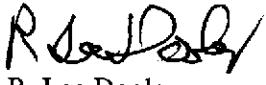
#### REMARKS

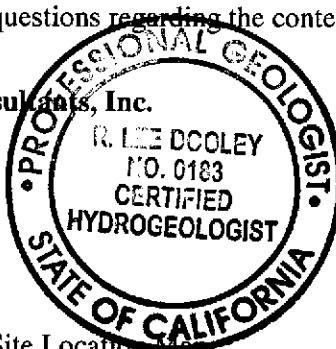
The information and recommendations contained in this report represent Delta's professional opinions based upon the currently available information and are arrived at in accordance with currently acceptable professional standards. This report is based upon a specific scope of work requested by the client. 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.**

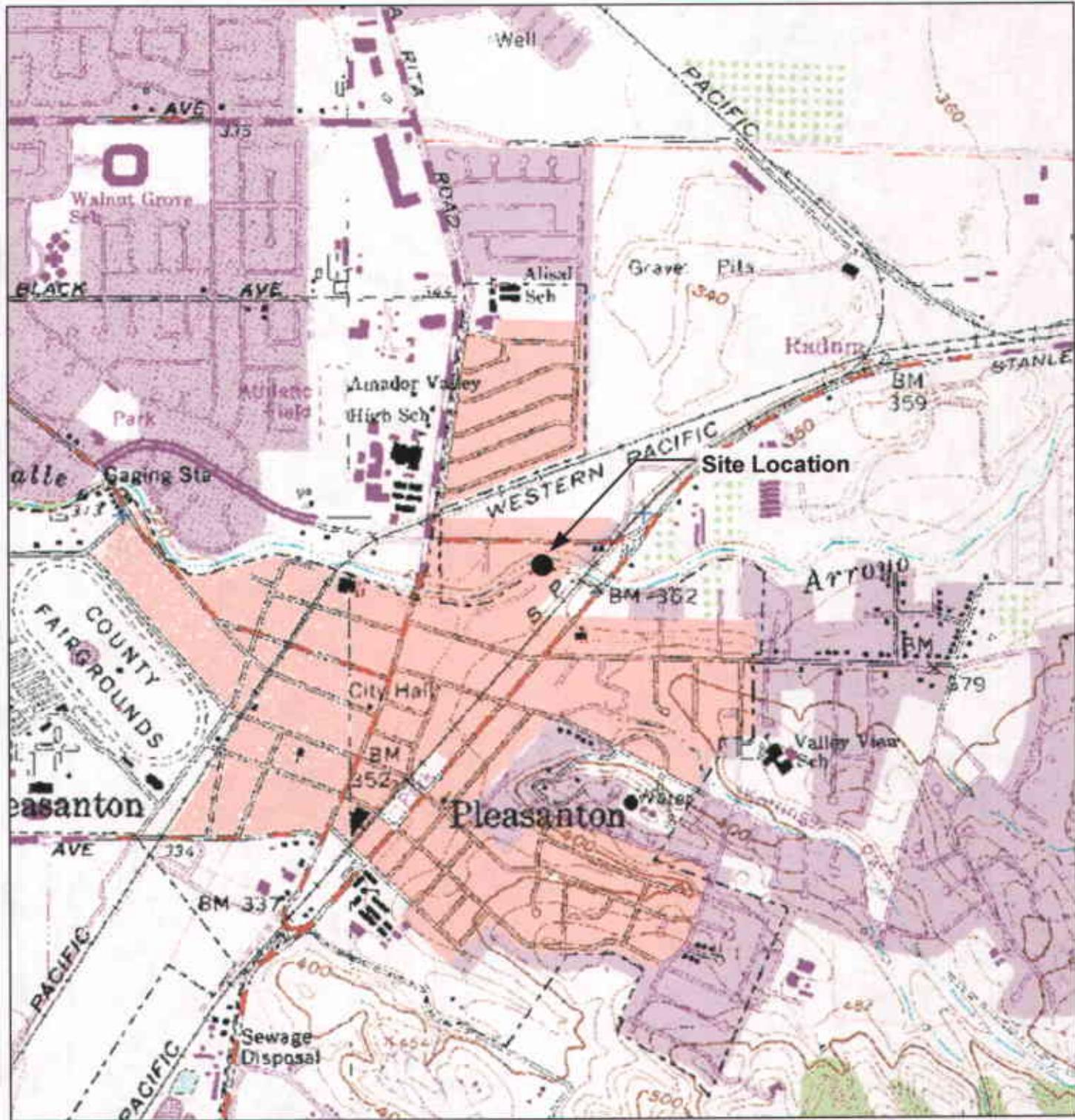
  
R. Lee Dooley  
Senior Hydrogeologist  
CHG 0183



Attachments: Figure 1 – Site Location Map  
Figure 2 – Groundwater Elevation Contour Map, August 5, 2005  
Figure 3 – TPH-G, Benzene, and MTBE Concentration Map, August 5, 2005

Attachment A – Groundwater Monitoring and Sampling Report, August 26, 2005

cc: Denis Brown, Shell Oil Products US, Carson



**GENERAL NOTES:**

Base Map from: DeLorme Yarmouth, ME 04096

Source Data: USGS



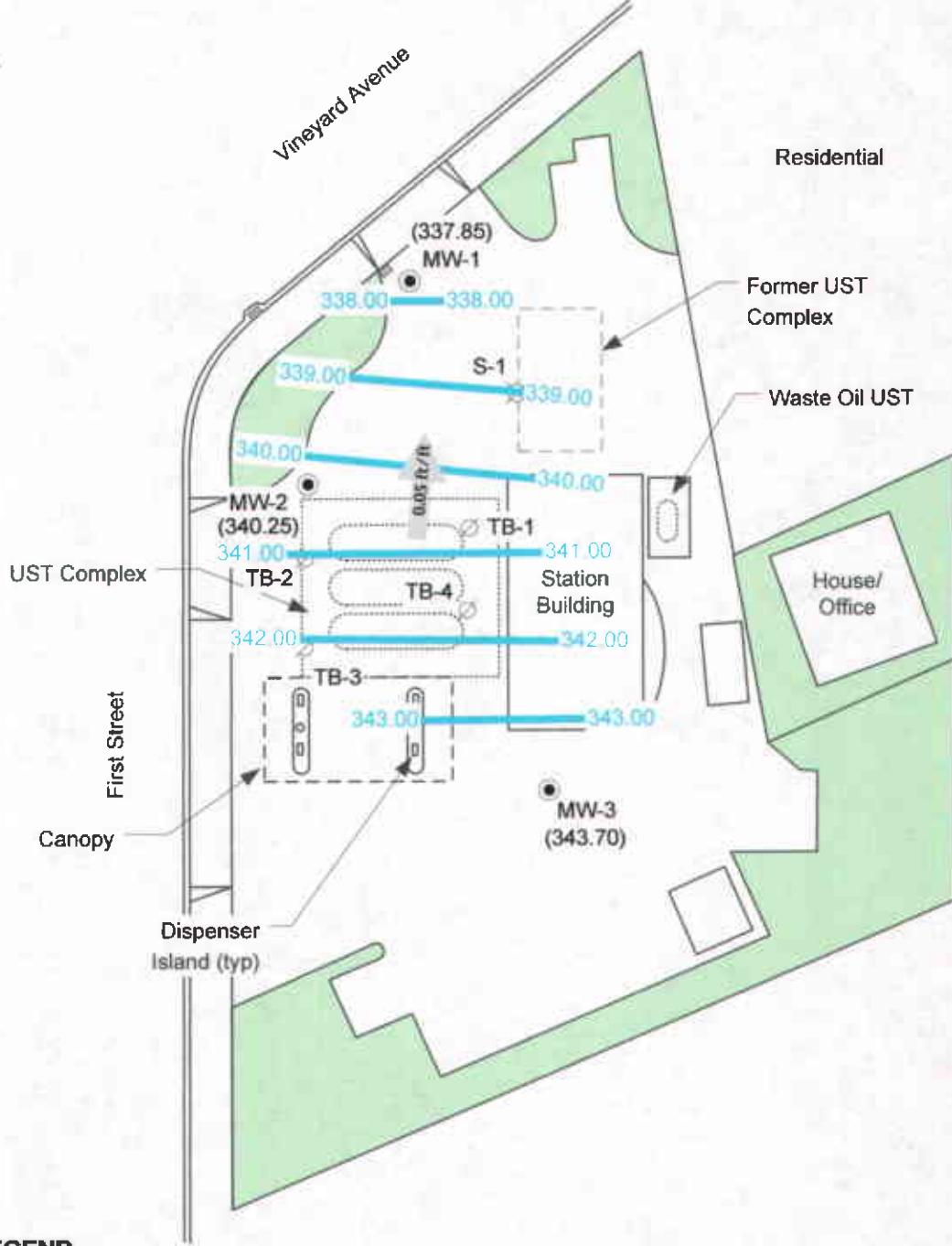
**FIGURE 1**  
**SITE LOCATION MAP**

SHELL-BRANDED SERVICE STATION  
4226 First Street  
Pleasanton, California

PROJECT NO. SJ42-26F-1 2005	DRAWN BY V. F. 5/5/05
FILE NO. SJ42-26F-1 2005	PREPARED BY VF
REVISION NO.	REVIEWED BY



North



**LEGEND**

- MW-2 ● **GROUNDWATER MONITORING WELL LOCATION**
- S-1 ☒ **DESTROYED WELL**
- TB-1 Ⓜ **ABANDONED TANK BACKFILL WELL LOCATION**
- (343.63) **GROUNDWATER ELEVATION (FEET - MSL), 8/5/05**
- 343.00 **GROUNDWATER ELEVATION CONTOUR**
- 0.02 ft/ft **APPROXIMATE GROUNDWATER FLOW DIRECTION AND GRADIENT**

BaseMap from: Cambia Environmental Technology, Inc. and Toxichem Management Systems, Inc.

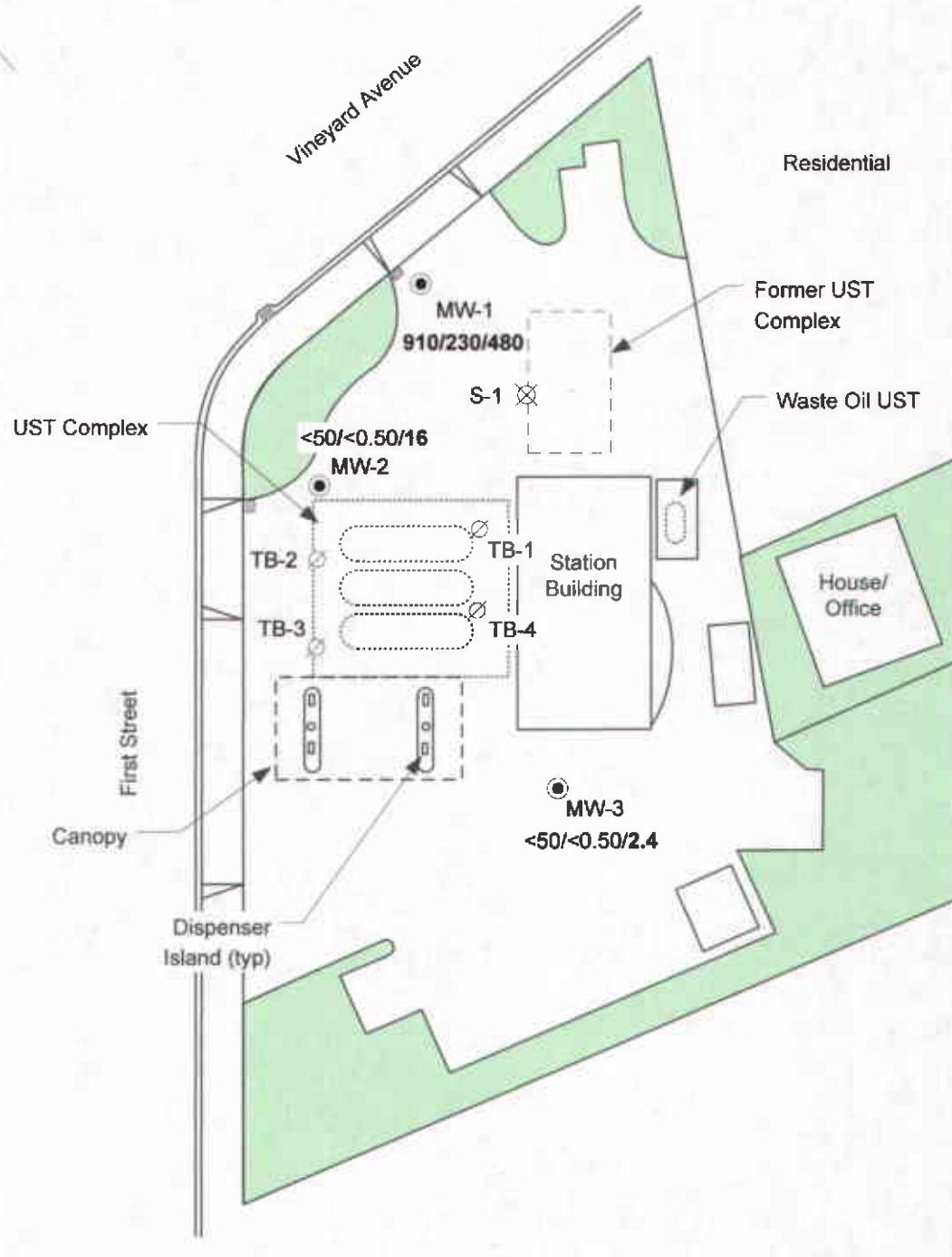


APPROX. SCALE

**FIGURE 2**  
**GROUNDWATER ELEVATION CONTOUR MAP,**  
**AUGUST 5, 2005**  
**SHELL-BRANDED SERVICE STATION**  
**4226 First Street**  
**Pleasanton, California**

PROJECT NO. SJ42-26F-1.2005	DRAWN BY V.F. 5/9/05
FILE NO. SJ42-26F-1.2005	PREPARED BY J.T.
REVISION NO. 2	REVIEWED BY





0 40 FT  
APPROX. SCALE

#### LEGEND

- MW-2 ● **GROUNDWATER MONITORING WELL LOCATION**
- S-1 ✘ **DESTROYED WELL**
- TB-1 ○ **ABANDONED TANK BACKFILL WELL LOCATION**
- <50/<0.50/<0.50 **TPH-G/BENZENE/MTBE CONCENTRATION MAP, 8/5/05**

BaseMap from: Cambria Environmental Technology, Inc. and Toxicem Management Systems, Inc.

**FIGURE 3**  
**TPH-G, BENZENE, AND MTBE CONCENTRATION MAP,**  
**AUGUST 5, 2005**

**SHELL-BRANDED SERVICE STATION**  
**4226 First Street**  
**Pleasanton, California**

PROJECT NO. SJ42-26F-1.2005	DRAWN BY V.F. 5/6/05
FILE NO. SJ42-26F-1.2005	PREPARED BY J.T.
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 1986

August 26, 2005

Denis Brown  
Shell Oil Products US  
2095 South Wilmington Avenue  
Carson, CA 90810

Third Quarter 2005 Groundwater Monitoring at  
Shell-branded Service Station  
4226 First Street  
Pleasanton, CA

Monitoring performed on August 5, 2005

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**Groundwater Monitoring Report 050805-WC-2**

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.

SAN JOSE

1680 ROGERS AVENUE SAN JOSE, CA 95112-1105

SACRAMENTO

(408) 573-0555

LOS ANGELES

FAX (408) 573-7771 LIC. 746684

SAN DIEGO

[www.blainetech.com](http://www.blainetech.com)

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 Rd., Suite 200  
San Jose, CA 95119

**WELL CONCENTRATIONS**  
**Shell-branded Service Station**  
**4226 First Street**  
**Pleasanton, CA**

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)
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MW-1	6/16/1999	NA	NA	NA	NA	NA	NA	NA	371.20	37.81	333.39
MW-1	6/30/1999	89.0	5.89	<0.500	<0.500	0.652	<5.00	NA	371.20	33.65	337.55
MW-1	9/24/1999	1,560	473	<10.0	<10.0	22.8	<2.50	NA	371.20	37.04	334.16
MW-1	12/8/1999	1,020	375	<5.00	<5.00	15.2	<50.0	NA	371.20	36.79	334.41
MW-1	2/10/2000	523	106	<5.00	<5.00	31.8	2.90	NA	371.20	34.90	336.30
MW-1	5/17/2000	<50.0	<0.500	<0.500	<0.500	<0.500	37.0	29.5	371.20	32.55	338.65
MW-1	8/3/2000	808	290	<2.50	<2.50	8.90	<12.5	NA	371.20	39.13	332.07
MW-1	10/31/2000	507	250	0.962	<0.500	23.5	3.76	NA	371.20	37.91	333.29
MW-1	3/1/2001	<50.0	<0.500	<0.500	<0.500	<0.500	74.6	NA	371.20	39.60	331.60
MW-1	5/30/2001	780	280	<2.0	<2.0	11	NA	<2.0	371.20	39.53	331.67
MW-1	8/2/2001	1,900	580	<2.5	<2.5	12	NA	<25	371.20	39.61	331.59
MW-1	12/6/2001	840	190	<0.50	<0.50	13	NA	<5.0	371.20	39.63	331.57
MW-1	2/5/2002	2,700	650	<2.5	<2.5	7.2	NA	<25	371.20	35.53	335.67
MW-1	6/17/2002	2,500	550	<2.0	<2.0	5.9	NA	<20	371.20	39.29	331.91
MW-1	7/25/2002	690	130	<0.50	<0.50	4.4	NA	18	371.20	39.39	331.81
MW-1	11/14/2002	400	31	<0.50	<0.50	2.7	NA	27	371.20	40.00	331.20
MW-1	2/12/2003	840	0.85	<0.50	<0.50	<0.50	NA	40	371.20	32.92	338.28
MW-1	5/14/2003	680	190	<2.5	<2.5	<5.0	NA	95	371.20	32.57	338.63
MW-1	7/29/2003	870	190	<2.5	<2.5	<5.0	NA	150	371.20	33.82	337.38
MW-1	11/19/2003	<200	14	<2.0	<2.0	<4.0	NA	230	371.20	38.28	332.92
MW-1	2/19/2004	58 d	11	<0.50	<0.50	<1.0	NA	85	371.20	36.93	334.27
MW-1	5/3/2004	670	310	<2.5	<2.5	<5.0	NA	420	371.20	32.70	338.50
MW-1	8/24/2004	430 d	34	<2.5	<2.5	<5.0	NA	690	371.20	34.66	336.54
MW-1	11/15/2004	<250	29	<2.5	<2.5	<5.0	NA	470	371.20	38.27	332.93
MW-1	2/2/2005	540 e	87	<2.5	<2.5	<5.0	NA	700	371.20	32.02	339.18
MW-1	5/5/2005	460 e	88	<2.5	<2.5	<5.0	NA	300	371.20	36.82	334.38
MW-1	8/5/2005	910	230	<2.5	<2.5	<5.0	NA	480	371.20	33.35	337.85

MW-2	2/3/2000	NA	372.40	32.65	339.75						
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**WELL CONCENTRATIONS**  
**Shell-branded Service Station**  
**4226 First Street**  
**Pleasanton, CA**

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)
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MW-2	2/7/2000	NA	NA	NA	NA	NA	NA	NA	372.40	35.51	336.89
MW-2	2/10/2000	<50.0	<0.500	<0.500	<0.500	<0.500	2.61	NA	372.40	36.62	335.78
MW-2	5/17/2000	120	4.09	<0.500	<0.500	<0.500	29.0	NA	372.40	32.14	340.26
MW-2	8/3/2000	<50.0	0.692	<0.500	<0.500	<0.500	40.5	36.6b	372.40	32.42	339.98
MW-2	10/31/2000	<50.0	<0.500	<0.500	<0.500	<0.500	57.4	44.8c	372.40	33.02	339.38
MW-2	3/1/2001	173	1.64	1.65	2.86	3.97	127	167	372.40	32.54	339.86
MW-2	5/30/2001	<50	<0.50	<0.50	<0.50	<0.50	NA	170	372.40	32.42	339.98
MW-2	8/2/2001	<50	<0.50	<0.50	<0.50	<0.50	NA	160	372.40	32.55	339.85
MW-2	12/6/2001	<50	<0.50	<0.50	<0.50	<0.50	NA	170	372.40	33.15	339.25
MW-2	2/5/2002	<50	0.72	<0.50	<0.50	1.7	NA	170	372.40	32.29	340.11
MW-2	6/17/2002	<50	<0.50	<0.50	<0.50	<0.50	NA	260	372.40	32.63	339.77
MW-2	7/25/2002	<50	<0.50	<0.50	<0.50	<0.50	NA	280	372.40	32.80	339.60
MW-2	11/14/2002	120	13	9.0	3.8	14	NA	430	372.40	33.31	339.09
MW-2	2/12/2003	<100	<1.0	<1.0	<1.0	<1.0	NA	430	372.40	32.15	340.25
MW-2	5/14/2003	<250	<2.5	<2.5	<2.5	<5.0	NA	470	372.40	32.01	340.39
MW-2	7/29/2003	<250	<2.5	<2.5	<2.5	<5.0	NA	670	372.40	32.51	339.89
MW-2	11/19/2003	<50	<0.50	<0.50	<0.50	<1.0	NA	54	372.40	33.83	338.57
MW-2	2/19/2004	65	<0.50	3.4	1.4	6.5	NA	8.2	372.40	32.68	339.72
MW-2	5/3/2004	<50	<0.50	<0.50	<0.50	<1.0	NA	5.2	372.40	32.07	340.33
MW-2	8/24/2004	<50	<0.50	<0.50	<0.50	<1.0	NA	2.7	372.40	32.44	339.96
MW-2	11/15/2004	<50	<0.50	<0.50	<0.50	<1.0	NA	1.3	372.40	32.95	339.45
MW-2	2/2/2005	<50	<0.50	<0.50	<0.50	<1.0	NA	24	372.40	31.94	340.46
MW-2	5/5/2005	72 f	<0.50	<0.50	<0.50	<1.0	NA	4.9	372.40	31.91	340.49
MW-2	8/5/2005	<50	<0.50	<0.50	<0.50	<1.0	NA	16	372.40	32.15	340.25

MW-3	2/3/2000	NA	NA	NA	NA	NA	NA	NA	375.05	32.06	342.99
MW-3	2/7/2000	NA	NA	NA	NA	NA	NA	NA	375.05	32.57	342.48
MW-3	2/10/2000	180	5.12	<0.500	<0.500	0.714	26.8	21.5a	375.05	32.77	342.28
MW-3	5/17/2000	1,360	414	<5.00	<5.00	17.6	<25.0	NA	375.05	31.00	344.05

**WELL CONCENTRATIONS**  
**Shell-branded Service Station**  
**4226 First Street**  
**Pleasanton, CA**

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)
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MW-3	8/3/2000	<50.0	0.536	<0.500	<0.500	<0.500	22.0	NA	375.05	31.03	344.02
MW-3	10/31/2000	<50.0	<0.500	<0.500	<0.500	<0.500	31.1	NA	375.05	31.28	343.77
MW-3	3/1/2001	384	172	0.815	<0.500	8.00	5.16	NA	375.05	31.21	343.84
MW-3	5/30/2001	<50	<0.50	<0.50	<0.50	<0.50	NA	110	375.05	31.02	344.03
MW-3	8/2/2001	<50	<0.50	<0.50	<0.50	<0.50	NA	93	375.05	30.94	344.11
MW-3	12/6/2001	110	<0.50	<0.50	<0.50	2.3	NA	180	375.05	31.28	343.77
MW-3	2/5/2002	<50	0.89	0.60	<0.50	2.1	NA	130	375.05	31.12	343.93
MW-3	6/17/2002	<50	<0.50	<0.50	<0.50	<0.50	NA	72	375.05	31.21	343.84
MW-3	7/25/2002	<50	<0.50	<0.50	<0.50	<0.50	NA	81	375.05	30.96	344.09
MW-3	11/14/2002	<50	<0.50	<0.50	<0.50	<0.50	NA	60	375.05	31.44	343.61
MW-3	2/12/2003	<50	<0.50	<0.50	<0.50	<0.50	NA	43	375.05	31.28	343.77
MW-3	5/14/2003	<50	<0.50	<0.50	<0.50	<1.0	NA	24	375.05	31.20	343.85
MW-3	7/29/2003	<50	<0.50	<0.50	<0.50	<1.0	NA	21	375.05	31.29	343.76
MW-3	11/19/2003	<50	<0.50	<0.50	<0.50	<1.0	NA	8.2	375.05	31.86	343.19
MW-3	2/19/2004	81	0.67	4.4	1.8	8.6	NA	13	375.05	31.66	343.39
MW-3	5/3/2004	<50	<0.50	<0.50	<0.50	<1.0	NA	13	375.05	31.72	343.33
MW-3	8/24/2004	<50	<0.50	<0.50	<0.50	<1.0	NA	10	375.05	32.09	342.96
MW-3	11/15/2004	<50	<0.50	<0.50	<0.50	<1.0	NA	6.6	375.05	31.50	343.55
MW-3	2/2/2005	<50	<0.50	<0.50	<0.50	<1.0	NA	3.1	375.05	31.28	343.77
MW-3	5/5/2005	<50	<0.50	<0.50	<0.50	<1.0	NA	2.3	375.05	31.42	343.63
MW-3	8/5/2005	<50	<0.50	<0.50	<0.50	<1.0	NA	2.4	375.05	31.35	343.70

TB-1	2/12/2003	Well inaccessible	NA	NA	NA	NA	NA	NA	NA	NA	
TB-1	2/28/2003	NA	NA	NA	NA	NA	NA	NA	12.54	NA	
TB-1	5/14/2003	<50	<0.50	<0.50	<0.50	<1.0	NA	<5.0	NA	12.31	NA

TB-2	2/12/2003	Well inaccessible	NA	NA						
TB-2	2/28/2003	NA	NA	NA	NA	NA	NA	NA	12.56	NA
TB-2	5/14/2003	Insufficient water	NA	NA	NA	NA	NA	NA	12.54	NA

**WELL CONCENTRATIONS**  
**Shell-branded Service Station**  
**4226 First Street**  
**Pleasanton, CA**

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)
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TB-3	2/12/2003	Well dry	NA								
TB-3	2/28/2003	Well dry	NA								
TB-3	5/14/2003	Well dry	NA								

TB-4	2/12/2003	Well dry	NA								
TB-4	2/28/2003	Well dry	NA								
TB-4	5/14/2003	Well dry	NA								

Abbreviations:

TPPH = Total petroleum hydrocarbons as gasoline by EPA Method 8260B; prior to May 30, 2001, analyzed by EPA Method 8015.

BTEX = Benzene, toluene, ethylbenzene, xylenes by EPA Method 8260B; prior to May 30, 2001, analyzed by EPA Method 8020.

MTBE = Methyl tertiary butyl ether

TOC = Top of Casing Elevation

GW = Groundwater

ug/L = Parts per billion

MSL = Mean sea level

ft. = Feet

<n = Below detection limit

NA = Not applicable

**WELL CONCENTRATIONS**  
**Shell-branded Service Station**  
**4226 First Street**  
**Pleasanton, CA**

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)
---------	------	----------------	-------------	-------------	-------------	-------------	------------------------	------------------------	--------------	----------------------------	--------------------------

Notes:

- a = Sample was analyzed outside of the EPA recommended holding time.
- b = Concentration is an estimate value above the linear quantitation range.
- c = The result reported was generated out of time. The sample was originally run within hold time, but needed to be re-analyzed.
- d = Sample contains discrete peak in addition to gasoline.
- e = Quantity of unknown hydrocarbon(s) in sample based on gasoline.
- f = The concentration reported reflect(s) individual or discrete unidentified peaks not matching a typical fuel pattern.

Well MW-1 surveyed on May 4, 1999 by Virgil Chavez Land Surveying of Vallejo, CA.

Site surveyed on March 19, 2000 by Virgil Chavez Land Surveying of Vallejo, CA.

Site surveyed on January 15, 2002 by Virgil Chavez Land Surveying of Vallejo, CA.

**Blaine Tech Services, Inc.**

August 24, 2005

1680 Rogers Avenue  
San Jose, CA 95112-1105

Attn.: Leon Gearhart

Project#: 050805-WC-2

Project: 98995840

Site: 4226 First Street, Pleasanton

Dear Mr.Gearhart,

Attached is our report for your samples received on 08/08/2005 12:40

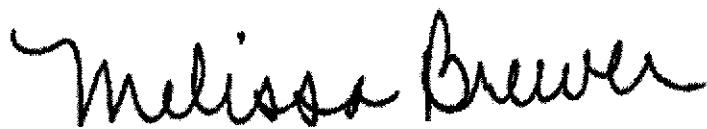
This report has been reviewed and approved for release. Reproduction of this report is permitted only in its entirety.

Please note that any unused portion of the samples will be discarded after 09/22/2005 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  
Project Manager

**Gas/BTEX/MTBE 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: 050805-WC-2  
98995840

Received: 08/08/2005 12:40

Site: 4226 First Street, Pleasanton

**Samples Reported**

Sample Name	Date Sampled	Matrix	Lab #
MW-1	08/05/2005 13:40	Water	1
MW-2	08/05/2005 14:00	Water	2
MW-3	08/05/2005 12:38	Water	3

**Gas/BTEX/MTBE 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) 573-7771Project: 050805-WC-2  
98995840

Received: 08/08/2005 12:40

Site: 4226 First Street, Pleasanton

Prep(s): 5030B

Test(s): 8260B

Sample ID: MW-1

Lab ID: 2005-08-0242 - 1

Sampled: 08/05/2005 13:40

Extracted: 8/17/2005 13:16

Matrix: Water

QC Batch#: 2005/08/17-1B.68

Analysis Flag: L2, pH: &lt;2 ( See Legend and Note Section )

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	910	250	ug/L	5.00	08/17/2005 13:16	
Benzene	230	2.5	ug/L	5.00	08/17/2005 13:16	
Toluene	ND	2.5	ug/L	5.00	08/17/2005 13:16	
Ethylbenzene	ND	2.5	ug/L	5.00	08/17/2005 13:16	
Total xylenes	ND	5.0	ug/L	5.00	08/17/2005 13:16	
Methyl tert-butyl ether (MTBE)	480	2.5	ug/L	5.00	08/17/2005 13:16	
<b>Surrogate(s)</b>						
1,2-Dichloroethane-d4	101.6	73-130	%	5.00	08/17/2005 13:16	
Toluene-d8	97.3	81-114	%	5.00	08/17/2005 13:16	

**Gas/BTEX/MTBE 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: 050805-WC-2  
98995840

Received: 08/08/2005 12:40

Site: 4226 First Street, Pleasanton

Prep(s): 5030B

Test(s): 8260B

Sample ID: MW-2

Lab ID: 2005-08-0242 - 2

Sampled: 08/05/2005 14:00

Extracted: 8/19/2005 19:54

Matrix: Water

QC Batch#: 2005/08/19-2B.65

pH: &lt;2

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	ND	50	ug/L	1.00	08/19/2005 19:54	
Benzene	ND	0.50	ug/L	1.00	08/19/2005 19:54	
Toluene	ND	0.50	ug/L	1.00	08/19/2005 19:54	
Ethylbenzene	ND	0.50	ug/L	1.00	08/19/2005 19:54	
Total xylenes	ND	1.0	ug/L	1.00	08/19/2005 19:54	
Methyl tert-butyl ether (MTBE)	16	0.50	ug/L	1.00	08/19/2005 19:54	
<b>Surrogate(s)</b>						
1,2-Dichloroethane-d4	100.7	73-130	%	1.00	08/19/2005 19:54	
Toluene-d8	97.0	81-114	%	1.00	08/19/2005 19:54	

**Gas/BTEX/MTBE 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: 050805-WC-2  
98995840

Received: 08/08/2005 12:40

Site: 4226 First Street, Pleasanton

Prep(s): 5030B

Test(s): 8260B

Sample ID: MW-3

Lab ID: 2005-08-0242 - 3

Sampled: 08/05/2005 12:38

Extracted: 8/19/2005 20:20

Matrix: Water

QC Batch#: 2005/08/19-2B.65

pH: <2

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	ND	50	ug/L	1.00	08/19/2005 20:20	
Benzene	ND	0.50	ug/L	1.00	08/19/2005 20:20	
Toluene	ND	0.50	ug/L	1.00	08/19/2005 20:20	
Ethylbenzene	ND	0.50	ug/L	1.00	08/19/2005 20:20	
Total xylenes	ND	1.0	ug/L	1.00	08/19/2005 20:20	
Methyl tert-butyl ether (MTBE)	2.4	0.50	ug/L	1.00	08/19/2005 20:20	
<b>Surrogate(s)</b>						
1,2-Dichloroethane-d4	99.5	73-130	%	1.00	08/19/2005 20:20	
Toluene-d8	90.9	81-114	%	1.00	08/19/2005 20:20	

**Gas/BTEX/MTBE 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: 050805-WC-2  
98995840

Received: 08/08/2005 12:40

Site: 4226 First Street, Pleasanton

**Batch QC Report**

Prep(s): 5030B

Test(s): 8260B

**Method Blank****Water****QC Batch # 2005/08/17-1B.68**

MB: 2005/08/17-1B.68-043

Date Extracted: 08/17/2005 12:43

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline [Shell]	ND	50	ug/L	08/17/2005 12:43	
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	08/17/2005 12:43	
Benzene	ND	0.5	ug/L	08/17/2005 12:43	
Toluene	ND	0.5	ug/L	08/17/2005 12:43	
Ethylbenzene	ND	0.5	ug/L	08/17/2005 12:43	
Total xylenes	ND	1.0	ug/L	08/17/2005 12:43	
<b>Surrogates(s)</b>					
1,2-Dichloroethane-d4	100.2	73-130	%	08/17/2005 12:43	
Toluene-d8	108.3	81-114	%	08/17/2005 12:43	

**Gas/BTEX/MTBE 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: 050805-WC-2  
98995840

Received: 08/08/2005 12:40

Site: 4226 First Street, Pleasanton

**Batch QC Report**

Prep(s): 5030B

Test(s): 8260B

**Method Blank**

Water

**QC Batch # 2005/08/19-2B.65**

MB: 2005/08/19-2B.65-028

Date Extracted: 08/19/2005 19:28

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline [Shell]	ND	50	ug/L	08/19/2005 19:28	
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	08/19/2005 19:28	
Benzene	ND	0.5	ug/L	08/19/2005 19:28	
Toluene	ND	0.5	ug/L	08/19/2005 19:28	
Ethylbenzene	ND	0.5	ug/L	08/19/2005 19:28	
Total xylenes	ND	1.0	ug/L	08/19/2005 19:28	
<b>Surrogates(s)</b>					
1,2-Dichloroethane-d4	95.8	73-130	%	08/19/2005 19:28	
Toluene-d8	95.2	81-114	%	08/19/2005 19:28	

**Gas/BTEX/MTBE 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: 050805-WC-2  
98995840

Received: 08/08/2005 12:40

Site: 4226 First Street, Pleasanton

**Batch QC Report**

Prep(s): 5030B

Test(s): 8260B

**Laboratory Control Spike**

LCS      2005/08/17-1B.68-017  
LCSD

**Water**

Extracted: 08/17/2005

**QC Batch # 2005/08/17-1B.68**

Analyzed: 08/17/2005 12:17

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		Rec.	RPD	LCS	LCSD
Methyl tert-butyl ether (MTBE)	26.6		25	106.4		65-165	20			
Benzene	22.5		25	90.0		69-129	20			
Toluene	24.9		25	99.6		70-130	20			
<b>Surrogates(s)</b>										
1,2-Dichloroethane-d4	432		500	86.4		73-130				
Toluene-d8	520		500	104.0		81-114				

## Gas/BTEX/MTBE 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: 050805-WC-2  
98995840

Received: 08/08/2005 12:40

Site: 4226 First Street, Pleasanton

## Batch QC Report

Prep(s): 5030B

Test(s): 8260B

## Laboratory Control Spike

## Water

QC Batch # 2005/08/19-2B.65

LCS 2005/08/19-2B.65-002

Extracted: 08/19/2005

Analyzed: 08/19/2005 19:02

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)	17.8		25	71.2			65-165	20		
Benzene	20.6		25	82.4			69-129	20		
Toluene	23.5		25	94.0			70-130	20		
<b>Surrogates(s)</b>										
1,2-Dichloroethane-d4	411		500	82.2			73-130			
Toluene-d8	490		500	98.0			81-114			

**Gas/BTEX/MTBE 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: 050805-WC-2  
98995840

Received: 08/08/2005 12:40

Site: 4226 First Street, Pleasanton

**Batch QC Report**

Prep(s): 5030B

Test(s): 8260B

**Matrix Spike ( MS / MSD )**

MS/MSD

MS: 2005/08/17-1B.68-008

Extracted: 08/17/2005

Water

QC Batch # 2005/08/17-1B.68

Lab ID: 2005-08-0181 - 001

Analyzed: 08/17/2005 14:08

Dilution: 40.00

MSD: 2005/08/17-1B.68-034

Extracted: 08/17/2005

Analyzed: 08/17/2005 14:34

Dilution: 40.00

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	2840	3110	2170	1000	67.0	94.0	33.5	65-165	20		R4
Benzene	5220	4760	4610	1000	61.0	15.0	121.	69-129	20		M5
Toluene	3750	3650	2830	1000	92.0	82.0	11.5	70-130	20		R1,M5
<b>Surrogate(s)</b>											
1,2-Dichloroethane-d4	397	463		500	79.3	92.6		73-130			
Toluene-d8	533	518		500	106.6	103.6		81-114			

**Gas/BTEX/MTBE 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: 050805-WC-2  
98995840

Received: 08/08/2005 12:40

Site: 4226 First Street, Pleasanton

**Batch QC Report**

Prep(s): 5030B

Test(s): 8260B

**Matrix Spike ( MS / MSD )**

MS/MSD

MS: 2005/08/19-2B.65-013

MSD: 2005/08/19-2B.65-039

**Water**

Extracted: 08/20/2005

Extracted: 08/20/2005

**QC Batch # 2005/08/19-2B.65**

Lab ID: 2005-08-0282 - 009

Analyzed: 08/20/2005 00:13

Dilution: 5.00

Analyzed: 08/20/2005 00:39

Dilution: 5.00

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	927	793	724	125	162.4	55.2	98.5	65-165	20		M5,R1
Benzene	201	209	70.9	125	104.1	110.5	6.0	69-129	20		
Toluene	131	133	1.57	125	103.5	105.1	1.5	70-130	20		
<b>Surrogate(s)</b>											
1,2-Dichloroethane-d4	563	503		500	112.5	100.5		73-130			
Toluene-d8	483	487		500	96.7	97.4		81-114			

**Gas/BTEX/MTBE 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: 050805-WC-2  
98995840

Received: 08/08/2005 12:40

Site: 4226 First Street, Pleasanton

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**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.

R4

RPD exceeded method control limit; % recoveries within limits.

LAB: StL

## SHELL Chain Of Custody Record

117392

### Lab specifications (continued)

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CHY, *Part 2*

Shell Project Manager to be Invoiced:		INCIDENT NUMBER (S&E ONLY)									
<input checked="" type="checkbox"/> SCIENCE & ENGINEERING	<input type="checkbox"/> TECHNOLOGY SERVICES	Denis Brown		9	8	9	9	5	8	4	0
<input type="checkbox"/> CLOUD HUSTON		<b>2005-08-0242</b>		SAP or CRMT NUMBER (TS/CRMT)							
				DATE: <b>8/5/05</b>							
				PAGE: <b>1</b> of <b>1</b>							

COMPANY NAME	LOG CODE	SITE ADDRESS (Street and City)	GLOBAL ID#
Blaine Tech Services	BTSS	4226 First Street, Pleasanton	T0600101259
ADDRESS			
1600 Rogers Avenue, San Jose, CA 95112			
PLATE NUMBER AND EXPIRATION DATE			
Leah Gerschart	Vera Fisher	(408) 224-4724	LEAD USE ONLY
PHONE	FAX	E-MAIL	
408-573-0555	408-573-7771	lgerschart@blainetech.com	
TURNAROUND TIME (Business Days)	Will Grow		

Will Grow

**REQUESTED ANALYSIS**

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

46

INTERPOLATION EQUATIONS

**CHART 17.** White with four red Crosses in the Yellow and Black in Green

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## **WELLHEAD INSPECTION CHECKLIST**

Page \_\_\_\_\_ of \_\_\_\_\_

Date 8/5/05

Client 8 Shell

Site Address 4226 first St., Pleasanton

Job Number 050805-WC-2

## Technician

W:11

**NOTES:**

## WELL GAUGING DATA

Project # 050805-wc-2 Date 8/5/05 Client Shell

Site 4226 First St., Pleasanton

# SHELL WELL MONITORING DATA SHEET

BTS #: 050805-WC-2	Site: 98995840		
Sampler: WC	Date: 8/15/05		
Well I.D.: MW-1	Well Diameter: 2 3 4 6 8		
Total Well Depth (TD): 57.25	Depth to Water (DTW): 33.35		
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]: 38.13			

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: _____	

3.8 (Gals.) X 3 = 11.4 Gals.	Well Diameter	Multiplier	Well Diameter	Multiplier
1 Case Volume	1"	0.04	4"	0.65
	2"	0.16	6"	1.47
	3"	0.37	Other	radius <sup>2</sup> * 0.163

Time	Temp (°F)	pH	Cond. (mS or <del>µS</del> )	Turbidity (NTUs)	Gals. Removed	Observations
1312	77.5	7.0	1727	36	4	
1324	75.8	6.7	1770	32	8	
1335	77.1	6.5	1796	27	12	

Did well dewater? Yes  No  Gallons actually evacuated: 12

Sampling Date: 8/15/05 Sampling Time: 1340 Depth to Water: 37.76

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 #: 050805-WC-2	Site: 98995840		
Sampler: we	Date: 8/15/05		
Well I.D.: MW-2	Well Diameter: 2 3 (4) 6 8		
Total Well Depth (TD): 45.84	Depth to Water (DTW): 32.15		
Depth to Free Product:	Thickness of Free Product (feet):		
Referenced to: PVC	Grade	D.O. Meter (if req'd): YSI	HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 34.90			

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: _____	

3.9	(Gals.) X	3	= 23.7 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	radius <sup>2</sup> * 0.163

Time	Temp (°F)	pH	Cond. (mS or <del>µS</del> )	Turbidity (NTUs)	Gals. Removed	Observations
1246	74.3	6.6	1380	32	9	
1248	72.8	6.8	1382	32	18	
1250	72.6	6.8	1425	33	24	DTW = 39.43

Did well dewater? Yes  No  Gallons actually evacuated: 24  
 Sampling Date: 8/15/05 Sampling Time: 1400 Depth to Water: 38.16 depth

Sample I.D.: MW-2 Laboratory: SPL Other

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

EB I.D. (if applicable): @ Duplicate I.D. (if applicable):

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

D.O. (if req'd):	Pre-purge:	<sup>mg/L</sup>	Post-purge:	<sup>mg/L</sup>
------------------	------------	-----------------	-------------	-----------------

O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV
--------------------	------------	----	-------------	----

### SHELL WELL MONITORING DATA SHEET

BTS #: <u>050805-WC-2</u>	Site: <u>98995840</u>		
Sampler: <u>wc</u>	Date: <u>8/15/05</u>		
Well I.D.: <u>MW-3</u>	Well Diameter: 2 3 <u>4</u> 6 8		
Total Well Depth (TD): <u>34.65</u>	Depth to Water (DTW): <u>31.35</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>32.01</u>			

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

2.2 (Gals.) X 3 = -6.6 Gals.  
1 Case Volume Specified Volumes Calculated Volume

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

Time	Temp (°F)	pH	Cond. (mS or $\mu\text{S}$ )	Turbidity (NTUs)	Gals. Removed	Observations
1225	72.8	7.4	841	116	22	clear
1230	71.0	7.2	793	51	44	
1234	70.6	6.9	787	36	66	↓

Did well dewater? Yes No Gallons actually evacuated: 6.6

Sampling Date: 8/15/05 Sampling Time: 1238 Depth to Water: 32.00

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

Analyzed for: TPH-G BTEX MTBE TPH-D Other: \_\_\_\_\_

EB I.D. (if applicable): @ Duplicate I.D. (if applicable): \_\_\_\_\_

Analyzed for: TPH-G BTEX MTBE TPH-D Other: \_\_\_\_\_

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
------------------	------------	------	-------------	------

O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV
--------------------	------------	----	-------------	----

## SITE INSPECTION CHECKLIST

Client Shell Date 7-28-05  
 Site Address 4226 First Street, Pleasanton  
 Job Number 050728AA3 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

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

PROJECT COORDINATOR ONLY

Checklist Reviewed	<u>16</u> <u>7/29/05</u> Initials/Date	Notes
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## Repair Data Sheet

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Client

Shell

Date

7-28-05

Site Address

4226 First Street, Pleasanton

Job Number

OS0728AA3 Technician Andrew Adino, P.

Inspection Point (Well ID or description of location)	Check indicates deficiency															
	Well Inspected/Cleaned, Labored - No Further Corrective Action Required	Replaced Cap	Replaced Lid Seal	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
MW-1	X															
MW-2	X															
MW-3	X															