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Alameda County

APR 18 2004

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Environmental Health

Letter of Transmittal

To: Alameda County Environmental Health Services Date: 4/14/2004
1131 Harbor Bay Pkwy
Alameda CA 94502 Job No: SJ67-50S-1.2004

Attn: Mr. Scott Seery

We are sending the following items:

Date	Copies	Description
14-Apr-04	1	1Q04 - Monitoring, Sampling & Rem. Status Report
		Shell Service Station
		6750 Santa Rita Road
		Pleasanton, CA
		Incident No. 97464711

These are transmitted:

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

Remarks:

By: Debbie Arnold

Title: Project Geologist

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April 14, 2004
Project No. SJ67-50S-1.2004

Mr. Scott O. Seery
Alameda County Health Care Services Agency
Environmental Health Services
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577

**Re: First Quarter 2004 - Quarterly Monitoring, Sampling and Remediation Status Report
Shell Service Station
6750 Santa Rita Road
Pleasanton, California
Incident No. 97464711**

Dear Mr. Seery:

Delta Environmental Consultants, Inc. (Delta), on behalf of Shell Oil Products US (Shell), has prepared the following first quarter 2004 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 January 6, 2004. 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 submitted by Blaine to Severn Trent Laboratories, Inc. in Pleasanton, California for analysis for total purgeable petroleum hydrocarbons as gasoline (TPH-G); benzene, toluene, ethylbenzene, and total xylenes (BTEX compounds); and fuel oxygenates methyl tert-butyl ether (MTBE), diisopropyl ether (DIPE), ethyl-t-butyl ether (ETBE), tert-amyl methyl ether (TAME), and tert-butanol (TBA) using EPA Method 8260B. Benzene and MTBE concentrations 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.

REMEDIATION SUMMARY

Monthly batch extraction on Wells MW-2 and MW-3 was initiated during the third quarter 2003, and continued through the fourth quarter 2003. This remedial action was taken to address the presence of MTBE in groundwater. Delta/Shell discontinued monthly groundwater batch extractions during the first quarter 2004. On average, less than 40 gallons of water could be extracted from each well during a two-hour period. The final groundwater batch extraction event occurred on December 29, 2003. Over the course of six months, the MTBE concentration in Well MW-3 was lowered from a historic high of 15,000 micrograms per liter (ug/l) to 9,800 ug/l. However during the fourth quarter 2003, the MTBE concentrations in Wells MW-2 and MW-3 increased by approximately 1,000 ug/l. Current MTBE concentrations are 4,500 ug/l (MW-2) and 9,800 ug/l (MW-3).

Delta plans to initiate a short-term groundwater extraction event involving Wells MW-2 and MW-3 during the second quarter 2004 (emphasis will be on MW-3). The duration of the extraction event will be approximately 14 days, and approximately 6,500 gallons of groundwater will be removed utilizing a submersible pump. A step-test and a constant-rate test will be conducted at the start of the event in order to determine an appropriate sustainable pumping rate. Extracted groundwater will be temporarily stored on-site in a Baker tank. The groundwater will be transported to the Shell refinery in Martinez, California for recycling following completion of the event. Delta considers that this method of bulk extraction will be more effective at reducing the mass of oxygenates beneath the site than a re-instatement of the former monthly batch extraction program.

DISCUSSION

Previous site data has indicated that the groundwater flow direction varies from southeast to southwest. The groundwater gradient on January 6, 2004 was toward the southeast at a magnitude of 0.01 feet/feet, consistent with the previous quarter.

MTBE continues to be detected in all site wells, current concentrations range from 40 ug/l to 9,800 ug/l. TBA concentrations in Wells MW-1, MW-2, and MW-3 have decreased since last quarter, current concentrations range from 280 ug/l to 3,800 ug/l. TBA has not been detected in Well MW-4. TPH-G and BTEX compounds remain below laboratory detection limits in all site wells.

In the second quarter 2004 Blaine will gauge and sample site wells and tabulate the data. Delta proposes to eliminate oxygenates DIPE, ETBE, and TAME from the list of monitoring parameters, as these constituents have never been detected in any site well since sampling began in December 2002. Delta will prepare a second quarter 2004 monitoring and sampling report for submittal to the Alameda County Health Care Services Agency.

REMARKS

The 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 report.

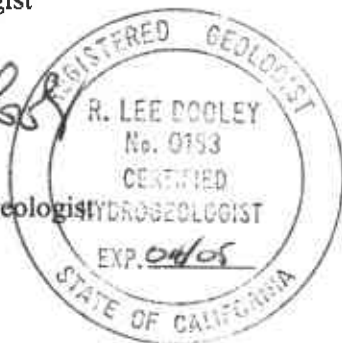
Sincerely,
Delta Environmental Consultants, Inc.



Debbie Arnold
Project Geologist



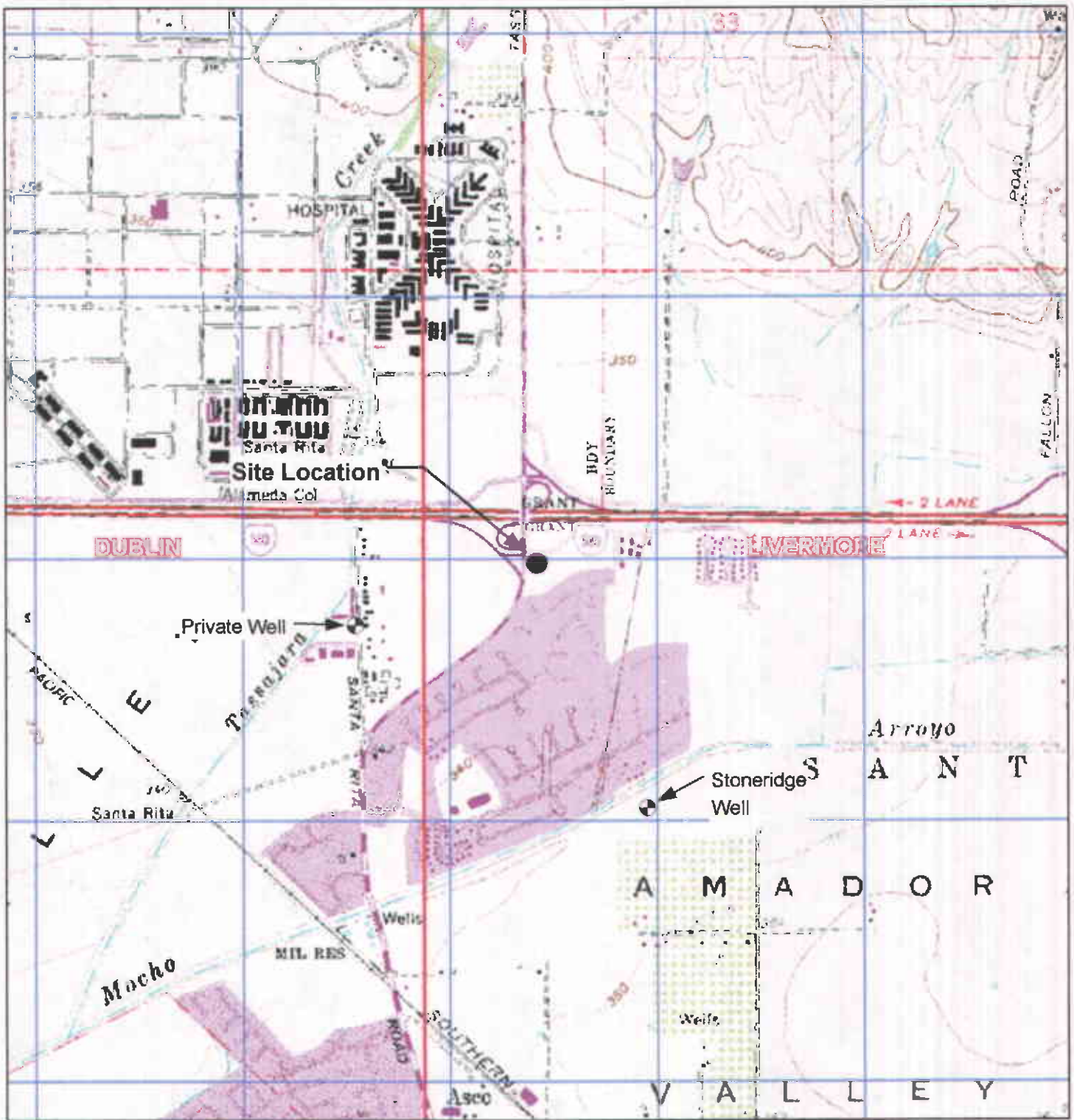
R. Lee Dooley
Senior Hydrogeologist
CHG 0183



Attachments: Figure 1 – Site Location and Well Survey Map
Figure 2 – Groundwater Elevation Contour Map
Figure 3 – Benzene and MTBE Concentration Map

Attachment A – Groundwater Monitoring and Sampling Report, February 5, 2004

cc: Karen Petryna, Shell Oil Products US, Carson
Betty Graham, Regional Water Quality Control Board, San Francisco Bay Region



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



QUADRANGLE LOCATION



Scale, Feet

FIGURE 1
 SITE LOCATION AND WELL SURVEY MAP
 SHELL-BRANDED SERVICE STATION
 6750 Santa Rita Road
 Pleasanton, California

PROJECT NO. SJ67-505-1.2004	DRAWN BY VF 12/04/03
FILE NO. SJ67-505-1.2004	PREPARED BY VF
REVISION NO.	REVIEWED BY



Pimlico Drive



Concrete Block Retaining Wall

Air/Water Dispenser

Trash Compound

Wooden Step (typ)

Trees and Shrubs (typ)

Santa Rita Road

Planter

Dispenser (typ)

Grass

USTs

Vacuum

Entrance to Shopping Center

(314.32) MW-1

MW-2 (312.81)

Private Well 2,200 feet Zone 7 Water Agency (Well 3S/1E 5R1)

Nearest LUFT 2,100 feet East BayBMW

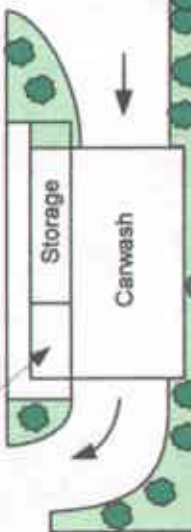
MW-4 (313.20)

Entrance to Shopping Center

MW-3 (312.98)

Nearest Water Supply Well 3,200 feet Zone 7 Water Agency Stoneridge Well 01

Restrooms



LEGEND

- MW-4 ● **GROUNDWATER MONITORING WELL**
- (312.09) **GROUNDWATER ELEVATION (FEET-MSL), 1/6/04**
- 312.25 — **GROUNDWATER ELEVATION CONTOUR**
- 0.01 ft/R **APPROXIMATE GROUNDWATER FLOW DIRECTION AND GRADIENT**

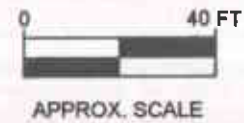
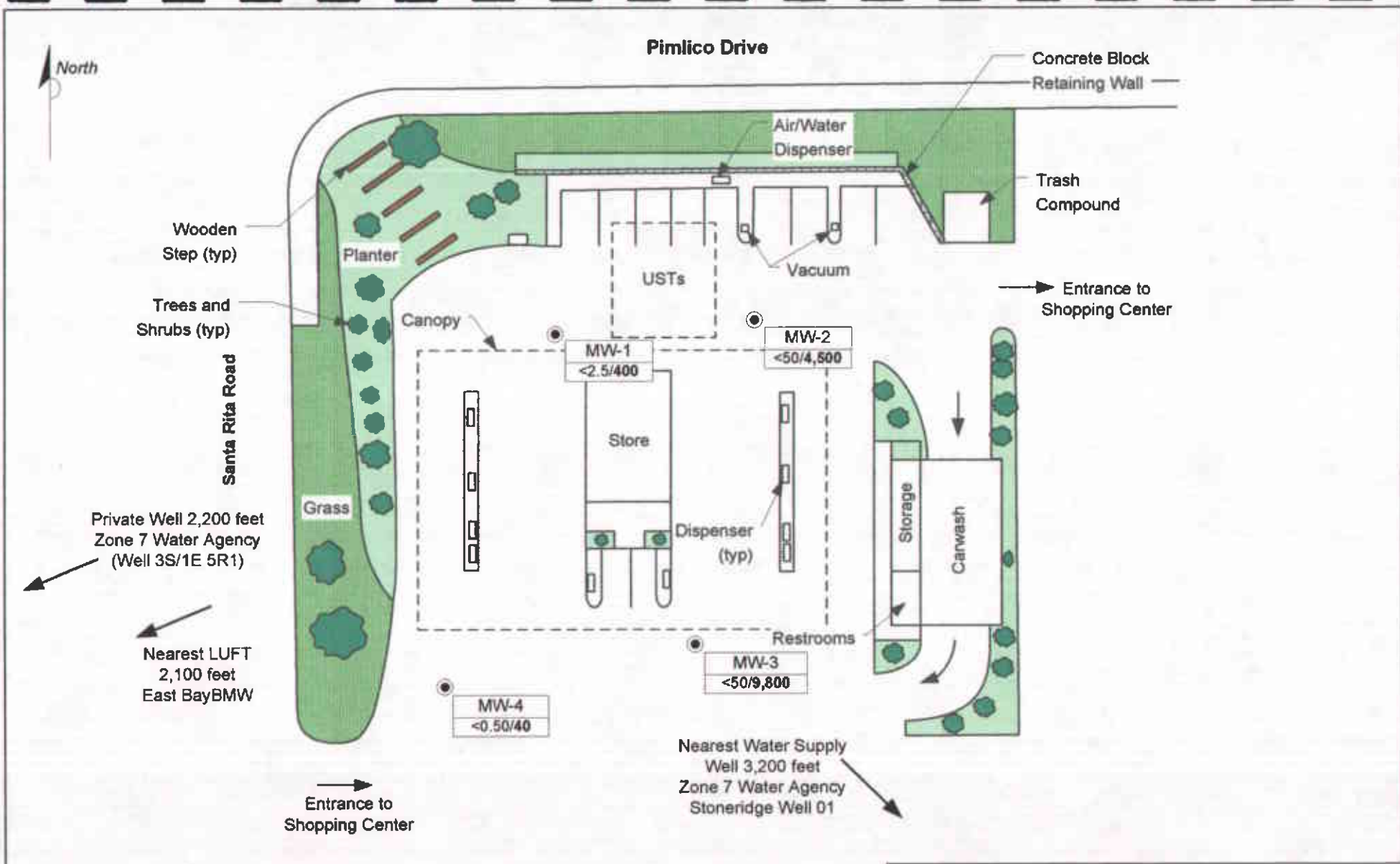


FIGURE 2
GROUNDWATER ELEVATION CONTOUR MAP,
JANUARY 6, 2004

SHELL SERVICE STATION
6750 Santa Rita Road
Pleasanton, California

PROJECT NO. SJ67-505-1.2004	DRAWN BY VF
FILE NO. SJ67-505-1.2004	PREPARED BY VF
REVISION NO. 1	REVIEWED BY





LEGEND

MW-4 ● GROUNDWATER MONITORING WELL

MW-4	WELL ID
<0.50/75	BENZENE/MTBE CONCENTRATIONS (UG/L), 1/8/04

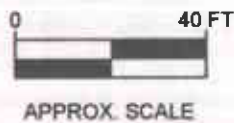


FIGURE 3
BENZENE AND MTBE CONCENTRATIONS MAP
JANUARY 6, 2004

SHELL SERVICE STATION
 6750 Santa Rita Road
 Pleasanton, California

PROJECT NO. SJ67-505-1.2004	DRAWN BY VF
FILE NO. SJ67-505-1.2004	PREPARED BY VF
REVISION NO. 1	REVIEWED BY



Attachment A

GROUNDWATER MONITORING AND SAMPLING REPORT

BLAINE
TECH SERVICES, INC.



1680 ROGERS AVENUE
SAN JOSE, CA 95112-1105
(408) 573-7771 FAX
(408) 573-0555 PHONE
CONTRACTOR'S LICENSE #746684
www.blainetech.com

February 5, 2004

Karen Petryna
Shell Oil Products US
P.O. Box 7869
Burbank, CA 91510-7869

First Quarter 2004 Groundwater Monitoring at
Shell-branded Service Station

6750 Santa Rita Road
Pleasanton, CA

Monitoring performed on January 6, 2004

Groundwater Monitoring Report 040106-MD-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/jt

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

cc: Debbie Arnold
Delta Environmental
175 Bernal Road, Suite 200
San Jose, CA 95119

WELL CONCENTRATIONS
Shell-branded Service Station
6750 Santa Rita Road
Pleasanton, CA

Well ID	Date	TPPH (ug/L)	TEPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8260 (ug/L)	DIPE	ETBE	TAME	TBA	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)
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MW-1	12/04/2002	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	31.75	NA
MW-1	12/22/2002	<50	81	<0.50	<0.50	<0.50	<0.50	62	<2.0	<2.0	<2.0	<50	NA	31.93	NA
MW-1	03/28/2003	<50	70	<0.50	<0.50	<0.50	<1.0	130	<2.0	<2.0	<2.0	43	343.48	31.59	311.89
MW-1	05/09/2003	<250	NA	<2.5	<2.5	<2.5	<5.0	280	<10	<10	<10	200	343.48	31.10	312.38
MW-1	06/30/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	343.48	31.65	311.83
MW-1	07/08/2003	<250	NA	<2.5	<2.5	<2.5	<5.0	160	<10	<10	<10	170	343.48	30.90	312.58
MW-1	07/17/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	343.48	31.53	311.95
MW-1	07/31/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	343.48	29.95	313.53
MW-1	08/29/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	343.48	29.99	313.49
MW-1	09/23/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	343.48	30.02	313.46
MW-1	10/03/2003	<500	NA	<5.0	<5.0	<5.0	<10	810	<20	<20	<20	540	343.48	29.89	313.59
MW-1	10/28/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	343.48	31.38	312.10
MW-1	01/06/2004	<250	NA	<2.5	<2.5	<2.5	<5.0	400	<10	<10	<10	280	343.48	29.16	314.32

MW-2	12/04/2002	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	31.25	NA
MW-2	12/22/2002	<200	120	<2.0	<2.0	<2.0	<2.0	660	<2.0	<2.0	<2.0	<50	NA	30.70	NA
MW-2	03/28/2003	<2,500	60	<25	<25	<25	<50	4,200	<100	<100	<100	2,500	342.86	30.30	312.56
MW-2	05/09/2003	<2,500	NA	<25	<25	<25	<50	4,000	<100	<100	<100	3,200	342.86	29.83	313.03
MW-2	06/30/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	342.86	30.45	312.41
MW-2	07/08/2003	<2,000	NA	<20	<20	<20	<40	2,800	<80	<80	<80	2,900	342.86	29.86	313.00
MW-2	07/17/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	342.86	30.33	312.53
MW-2	07/31/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	342.86	29.33	313.53
MW-2	08/29/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	342.86	29.98	312.88
MW-2	09/23/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	342.86	30.21	312.65
MW-2	10/03/2003	<2,000	NA	<20	<20	<20	<40	3,600	<80	<80	<80	3,000	342.86	30.43	312.43
MW-2	10/28/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	342.86	29.79	313.07

WELL CONCENTRATIONS
Shell-branded Service Station
6750 Santa Rita Road
Pleasanton, CA

Well ID	Date	TPPH (ug/L)	TEPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8260 (ug/L)	DIPE	ETBE	TAME	TBA	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)
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MW-2	01/06/2004	<5,000	NA	<50	<50	<50	<100	4,500	<200	<200	<200	1,900	342.86	30.05	312.81
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MW-3	12/04/2002	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	31.65	NA
MW-3	12/22/2002	<2,000	72	<20	<20	<20	<20	8,000	<20	<20	<20	1,500	NA	31.10	NA
MW-3	03/28/2003	<5,000	89	<50	<50	<50	<100	10,000	<200	<200	<200	6,100	342.23	30.76	311.47
MW-3	05/09/2003	11,000	NA	<100	<100	<100	<200	15,000	<400	<400	<400	9,300	342.23	30.04	312.19
MW-3	06/30/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	342.23	30.23	312.00
MW-3	07/08/2003	<10,000	NA	<100	<100	<100	<200	9,500	<400	<400	<400	2,500	342.23	30.11	312.12
MW-3	07/17/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	342.23	29.80	312.43
MW-3	07/31/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	342.23	29.94	312.29
MW-3	08/29/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	342.23	30.05	312.18
MW-3	09/23/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	342.23	29.95	312.28
MW-3	10/03/2003	<10,000	NA	<100	<100	<100	<200	8,800	<400	<400	<400	6,600	342.23	29.97	312.26
MW-3	10/28/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	342.23	29.97	312.26
MW-3	01/06/2004	<5,000	NA	<50	<50	<50	<100	9,800	<200	<200	<200	3,800	342.23	29.25	312.98

MW-4	12/04/2002	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	32.92	NA
MW-4	12/22/2002	<50	<50	<0.50	<0.50	<0.50	<0.50	93	<2.0	<2.0	<2.0	<50	NA	32.20	NA
MW-4	03/28/2003	<50	67	<0.50	<0.50	<0.50	<1.0	2.4	<2.0	<2.0	<2.0	<5.0	343.44	32.07	311.37
MW-4	05/09/2003	<50	NA	<0.50	<0.50	<0.50	<1.0	75	<2.0	<2.0	<2.0	<5.0	343.44	31.35	312.09
MW-4	06/30/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	343.44	31.42	312.02
MW-4	07/08/2003	<50	NA	<0.50	<0.50	<0.50	<1.0	18	<2.0	<2.0	<2.0	<5.0	343.44	31.42	312.02
MW-4	07/17/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	343.44	31.20	312.24
MW-4	07/31/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	343.44	31.05	312.39
MW-4	08/29/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	343.44	31.20	312.24
MW-4	09/23/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	343.44	31.15	312.29

WELL CONCENTRATIONS
Shell-branded Service Station
6750 Santa Rita Road
Pleasanton, CA

Well ID	Date	TPPH (ug/L)	TEPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8260 (ug/L)	DIPE	ETBE	TAME	TBA	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)
MW-4	10/03/2003	<50	NA	<0.50	<0.50	<0.50	<1.0	23	<2.0	<2.0	<2.0	<5.0	343.44	31.10	312.34
MW-4	10/28/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	343.44	31.14	312.30
MW-4	01/06/2004	<50	NA	<0.50	<0.50	<0.50	<1.0	40	<2.0	<2.0	<2.0	<5.0	343.44	30.24	313.20

Abbreviations:

- TPPH = Total petroleum hydrocarbons as gasoline by EPA Method 8260B.
- TEPH = Total petroleum hydrocarbons as diesel by modified EPA Method 8015.
- BTEX = Benzene, toluene, ethylbenzene, xylenes by EPA Method 8260B.
- MTBE = Methyl-tertiary-butyl ether
- DIPE = Di-isopropyl ether
- ETBE = Ethyl tert-butyl ether
- TAME = Tert-amyl methyl ether
- TBA = Tert-Butanol
- 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

Notes:

Site surveyed November 22, 2002, by Mid Coast Engineers.

Blaine Tech Services, Inc.

January 19, 2004

1680 Rogers Avenue
San Jose, CA 95112-1105
Attn.: Leon Gearhart
Project#: 040106-MD1
Project: 97464711
Site: 6750 Santa Rita Rd., Pleasanton

Dear Mr. Gearhart,

Attached is our report for your samples received on 01/07/2004 16:44
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
02/21/2004 unless you have requested otherwise.

We appreciate the opportunity to be of service to you. If you have any questions,
please call me at (925) 484-1919.

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

Sincerely,



Vincent Vancil
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: 040106-MD1

97464711

Received: 01/07/2004 16:44

Site: 6750 Santa Rita Rd., Pleasanton

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
MW-1	01/06/2004 09:25	Water	1
MW-2	01/06/2004 09:35	Water	2
MW-3	01/06/2004 09:50	Water	3
MW-4	01/06/2004 08:15	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

01/16/2004 18:46

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: 040106-MD1
97464711

Received: 01/07/2004 16:44

Site: 6750 Santa Rita Rd., Pleasanton

Prep(s): 5030B Test(s): 8260B
Sample ID: MW-1 Lab ID: 2004-01-0164 - 1
Sampled: 01/06/2004 09:25 Extracted: 1/14/2004 21:16
Matrix: Water QC Batch#: 2004/01/14-02.62
Analysis Flag: o (See Legend and Note Section)

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	250	ug/L	5.00	01/14/2004 21:16	
Benzene	ND	2.5	ug/L	5.00	01/14/2004 21:16	
Toluene	ND	2.5	ug/L	5.00	01/14/2004 21:16	
Ethylbenzene	ND	2.5	ug/L	5.00	01/14/2004 21:16	
Total xylenes	ND	5.0	ug/L	5.00	01/14/2004 21:16	
tert-Butyl alcohol (TBA)	280	25	ug/L	5.00	01/14/2004 21:16	
Methyl tert-butyl ether (MTBE)	400	2.5	ug/L	5.00	01/14/2004 21:16	
Di-isopropyl Ether (DIPE)	ND	10	ug/L	5.00	01/14/2004 21:16	
Ethyl tert-butyl ether (ETBE)	ND	10	ug/L	5.00	01/14/2004 21:16	
tert-Amyl methyl ether (TAME)	ND	10	ug/L	5.00	01/14/2004 21:16	
Surrogate(s)						
1,2-Dichloroethane-d4	101.9	76-130	%	5.00	01/14/2004 21:16	
Toluene-d8	102.0	78-115	%	5.00	01/14/2004 21:16	

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: 040106-MD1
97464711

Received: 01/07/2004 16:44

Site: 6750 Santa Rita Rd., Pleasanton

Prep(s): 5030B Test(s): 8260B
Sample ID: MW-2 Lab ID: 2004-01-0164 - 2
Sampled: 01/06/2004 09:35 Extracted: 1/14/2004 21:38
Matrix: Water QC Batch#: 2004/01/14-02.62
Analysis Flag: o (See Legend and Note Section)

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	5000	ug/L	100.00	01/14/2004 21:38	
Benzene	ND	50	ug/L	100.00	01/14/2004 21:38	
Toluene	ND	50	ug/L	100.00	01/14/2004 21:38	
Ethylbenzene	ND	50	ug/L	100.00	01/14/2004 21:38	
Total xylenes	ND	100	ug/L	100.00	01/14/2004 21:38	
tert-Butyl alcohol (TBA)	1900	500	ug/L	100.00	01/14/2004 21:38	
Methyl tert-butyl ether (MTBE)	4500	50	ug/L	100.00	01/14/2004 21:38	
Di-isopropyl Ether (DIPE)	ND	200	ug/L	100.00	01/14/2004 21:38	
Ethyl tert-butyl ether (ETBE)	ND	200	ug/L	100.00	01/14/2004 21:38	
tert-Amyl methyl ether (TAME)	ND	200	ug/L	100.00	01/14/2004 21:38	
Surrogate(s)						
1,2-Dichloroethane-d4	112.3	76-130	%	100.00	01/14/2004 21:38	
Toluene-d8	105.8	78-115	%	100.00	01/14/2004 21:38	

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

01/16/2004 18:46

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: 040106-MD1
97464711

Received: 01/07/2004 16:44

Site: 6750 Santa Rita Rd., Pleasanton

Prep(s): 5030B Test(s): 8260B
Sample ID: MW-3 Lab ID: 2004-01-0164 - 3
Sampled: 01/06/2004 09:50 Extracted: 1/14/2004 22:00
Matrix: Water QC Batch#: 2004/01/14-02.62
Analysis Flag: o (See Legend and Note Section)

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	5000	ug/L	100.00	01/14/2004 22:00	
Benzene	ND	50	ug/L	100.00	01/14/2004 22:00	
Toluene	ND	50	ug/L	100.00	01/14/2004 22:00	
Ethylbenzene	ND	50	ug/L	100.00	01/14/2004 22:00	
Total xylenes	ND	100	ug/L	100.00	01/14/2004 22:00	
tert-Butyl alcohol (TBA)	3800	500	ug/L	100.00	01/14/2004 22:00	
Methyl tert-butyl ether (MTBE)	9800	50	ug/L	100.00	01/14/2004 22:00	
Di-isopropyl Ether (DIPE)	ND	200	ug/L	100.00	01/14/2004 22:00	
Ethyl tert-butyl ether (ETBE)	ND	200	ug/L	100.00	01/14/2004 22:00	
tert-Amyl methyl ether (TAME)	ND	200	ug/L	100.00	01/14/2004 22:00	
Surrogate(s)						
1,2-Dichloroethane-d4	114.3	76-130	%	100.00	01/14/2004 22:00	
Toluene-d8	104.4	78-115	%	100.00	01/14/2004 22:00	

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

Blaine Tech Services, Inc.

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San Jose, CA 95112-1105

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

Project: 040106-MD1

97464711

Received: 01/07/2004 16:44

Site: 6750 Santa Rita Rd., Pleasanton

Prep(s):	5030B	Test(s):	8260B
Sample ID:	MW-4	Lab ID:	2004-01-0164 - 4
Sampled:	01/06/2004 08:15	Extracted:	1/15/2004 19:06
Matrix:	Water	QC Batch#:	2004/01/15-2B.64

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	01/15/2004 19:06	
Benzene	ND	0.50	ug/L	1.00	01/15/2004 19:06	
Toluene	ND	0.50	ug/L	1.00	01/15/2004 19:06	
Ethylbenzene	ND	0.50	ug/L	1.00	01/15/2004 19:06	
Total xylenes	ND	1.0	ug/L	1.00	01/15/2004 19:06	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	1.00	01/15/2004 19:06	
Methyl tert-butyl ether (MTBE)	40	0.50	ug/L	1.00	01/15/2004 19:06	
Di-isopropyl Ether (DIPE)	ND	2.0	ug/L	1.00	01/15/2004 19:06	
Ethyl tert-butyl ether (ETBE)	ND	2.0	ug/L	1.00	01/15/2004 19:06	
tert-Amyl methyl ether (TAME)	ND	2.0	ug/L	1.00	01/15/2004 19:06	
Surrogate(s)						
1,2-Dichloroethane-d4	92.8	76-130	%	1.00	01/15/2004 19:06	
Toluene-d8	89.9	78-115	%	1.00	01/15/2004 19:06	

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

Blaine Tech Services, Inc.

Attn.: Leon Gearhart

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

Project: 040106-MD1
97464711

Received: 01/07/2004 16:44

Site: 6750 Santa Rita Rd., Pleasanton

Batch QC Report

Prep(s): 5030B

Method Blank

MB: 2004/01/14-02.62-054

Water

Test(s): 8260B

QC Batch # 2004/01/14-02.62

Date Extracted: 01/14/2004 18:54

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	01/14/2004 18:54	
Benzene	ND	0.5	ug/L	01/14/2004 18:54	
Toluene	ND	0.5	ug/L	01/14/2004 18:54	
Ethylbenzene	ND	0.5	ug/L	01/14/2004 18:54	
Total xylenes	ND	1.0	ug/L	01/14/2004 18:54	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	01/14/2004 18:54	
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	01/14/2004 18:54	
Di-isopropyl Ether (DIPE)	ND	2.0	ug/L	01/14/2004 18:54	
Ethyl tert-butyl ether (ETBE)	ND	2.0	ug/L	01/14/2004 18:54	
tert-Amyl methyl ether (TAME)	ND	2.0	ug/L	01/14/2004 18:54	
Surrogates(s)					
1,2-Dichloroethane-d4	95.3	76-130	%	01/14/2004 18:54	
Toluene-d8	102.6	78-115	%	01/14/2004 18:54	

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

Blaine Tech Services, Inc.

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

Project: 040106-MD1
97464711

Received: 01/07/2004 16:44

Site: 6750 Santa Rita Rd., Pleasanton

Batch QC Report

Prep(s): 5030B

Method Blank

MB: 2004/01/15-2B.64-026

Water

Test(s): 8260B

QC Batch # 2004/01/15-2B.64

Date Extracted: 01/15/2004 18:26

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	01/15/2004 18:26	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	01/15/2004 18:26	
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	01/15/2004 18:26	
Di-isopropyl Ether (DIPE)	ND	2.0	ug/L	01/15/2004 18:26	
Ethyl tert-butyl ether (ETBE)	ND	2.0	ug/L	01/15/2004 18:26	
tert-Amyl methyl ether (TAME)	ND	2.0	ug/L	01/15/2004 18:26	
Benzene	ND	0.5	ug/L	01/15/2004 18:26	
Toluene	ND	0.5	ug/L	01/15/2004 18:26	
Ethylbenzene	ND	0.5	ug/L	01/15/2004 18:26	
Total xylenes	ND	1.0	ug/L	01/15/2004 18:26	
Surrogates(s)					
1,2-Dichloroethane-d4	84.2	76-130	%	01/15/2004 18:26	
Toluene-d8	93.6	78-115	%	01/15/2004 18:26	

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01/16/2004 18:46

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: 040106-MD1
97464711

Received: 01/07/2004 16:44

Site: 6750 Santa Rita Rd., Pleasanton

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Laboratory Control Spike

Water

QC Batch # 2004/01/14-02.62

LCS 2004/01/14-02.62-010

Extracted: 01/14/2004

Analyzed: 01/14/2004 18:10

LCSD 2004/01/14-02.62-032

Extracted: 01/14/2004

Analyzed: 01/14/2004 18:32

Compound	Conc. ug/L		Exp. Conc.	Recovery %		RPD	Ctrl.Limits %			Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS	LCSD
Benzene	21.9	21.9	25.0	87.6	87.6	0.0	69-129	20			
Toluene	27.0	26.5	25.0	108.0	106.0	1.9	70-130	20			
Methyl tert-butyl ether (MTBE)	18.5	18.8	25.0	74.0	75.2	1.6	65-165	20			
Surrogates(s)											
1,2-Dichloroethane-d4	458	437	500	91.6	87.4		76-130				
Toluene-d8	513	519	500	102.6	103.8		78-115				

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01/16/2004 18:46

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

Blaine Tech Services, Inc.

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

Project: 040106-MD1
97464711

Received: 01/07/2004 16:44

Site: 6750 Santa Rita Rd., Pleasanton

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Laboratory Control Spike

Water

QC Batch # 2004/01/15-2B.64

LCS 2004/01/15-2B.64-027

Extracted: 01/15/2004

Analyzed: 01/15/2004 17:42

LCSD 2004/01/15-2B.64-004

Extracted: 01/15/2004

Analyzed: 01/15/2004 18:04

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Methyl tert-butyl ether (MTBE)	25.1	21.9	25	100.4	87.6	13.6	65-165	20		
Benzene	27.6	24.7	25	110.4	98.8	11.1	69-129	20		
Toluene	27.6	25.5	25	110.4	102.0	7.9	70-130	20		
Surrogates(s)										
1,2-Dichloroethane-d4	415	427	500	83.0	85.4		76-130			
Toluene-d8	464	458	500	92.8	91.6		78-115			

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01/16/2004 18:46

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: 040106-MD1

97464711

Received: 01/07/2004 16:44

Site: 6750 Santa Rita Rd., Pleasanton

Legend and Notes

Analysis Flag

o

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

LAB: SIC

SHELL Chain Of Custody Record

81780

Lab identification (if necessary):
Address:
City/State/Zip:

Shell Project Manager to be invoiced:
Karen Petryna
2004-01-0164

INCIDENT NUMBER (S&E ONLY)
9 7 4 6 4 7 1 1
SAP or CRMT NUMBER (TSICRMT)

DATE: 1/6/04
PAGE: 1 of 1

LABORATORY NAME Blaine Tech Services	ADDRESS BTSS	SITE ADDRESS (Street and City) 6750 Santa Rita Rd., Pleasanton	GLOBAL ID# pending
ADDRESS 1680 Rogers Avenue, San Jose, CA 95112	CONTACT NAME Leon Gearhart	ANALYST NAME (Last, First, or Degree) Garrett Haertel	PHONE NO. (408)224-4724
PHONE NO. 408-573-0555	FAX 408-573-7771	EMAIL ghaertel@deltaenv.com	CONSULTANT PROJECT ID# 040106-000
EMAIL lgearhart@blainetech.com	SAMPLER NAME(S) (Print) Johanna De Jans		LAB USE ONLY

TURNAROUND TIME (BUSINESS DAYS):
 30 DAYS 5 DAYS 72 HOURS 48 HOURS 24 HOURS LESS THAN 24 HOURS

REQUESTED ANALYSIS

TPH - Gas, Purgeable	BTEX	MTBE (802RB - 5ppb RL)	MTBE (8260B - 0.5ppb RL)	Oxybenzox (5) by (8260B)	TPH - Diesel, Extractable

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

5.2

TEMPERATURE ON RECEIPT °C

LAB USE ONLY	Field Sample Identification	SAMPLING		MATRIX	NO. OF CONT.	TPH - Gas, Purgeable	BTEX	MTBE (802RB - 5ppb RL)	MTBE (8260B - 0.5ppb RL)	Oxybenzox (5) by (8260B)	TPH - Diesel, Extractable
		DATE	TIME								
	MW-1	01/06/04	925	L	3	✓	✓			✓	
	MW-2		935	L	3	✓	✓			✓	
	MW-3		950	L	3	✓	✓			✓	
	MW-4		815	L	3	✓	✓			✓	

Prepared by (Signature) <i>Johanna De Jans</i>	Received by (Signature) <i>[Signature]</i>	Date <u>1/7/04</u>	Time <u>1231</u>
Prepared by (Signature) <i>[Signature]</i>	Received by (Signature) <i>[Signature]</i>	Date <u>01/07/04</u>	Time <u>1644</u>
Prepared by (Signature)	Received by (Signature)	Date	Time

WELLHEAD INSPECTION CHECKLIST

Page 1 of 1

Client 97464711 Date 1/6/09

Site Address 6750 Santa Rita Rd., Pleasanton

Job Number 040106-M01 Technician John DeJong

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	✓							
MW-2	✓	✓						
MW-3	✓	✓						
MW-4	✓							

NOTES: _____

WELLHEAD INSPECTION CHECKLIST

Client Shell Date 12/29/03

Site Address 6750 Santa Rita Rd., Pleasanton

Job Number 031229-PCI Technician P. Cornish

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					X
MW-2	X		X					
MW-3	X	X	X					
MW-4	X		X					

NOTES: _____

WELL GAUGING DATA

Project # 040106-MDL Date 1/6/04 Client 97464711

Site 6750 Santa Rita Rd., Pleasanton

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	2					29.16	44.00	
MW-2	2	*				30.05	41.75	
MW-3	2					29.25	43.91	
MW-4	2					30.24	43.98	
* gauged w/ 5 liter nozzle								

SHELL WELL MONITORING DATA SHEET

BTS #: 040106-MD1	Site: 97464711
Sampler: John DeLong	Date: 01/06/04
Well I.D.: MW-1	Well Diameter: <u>3</u> 3 4 6 8
Total Well Depth (TD): 44.00	Depth to Water (DTW): 29.16
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]: 32.13	

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

$\frac{2.4}{\text{Case Volume}} \times \frac{3}{\text{Specified Volumes}} = \frac{7.2}{\text{Calculated Volume}} \text{ Gals.}$	<table 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>radius² * 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 ² * 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 ² * 0.163														

Time	Temp (°F)	pH	Cond. (mS or μ S)	Turbidity (NTUs)	Gals. Removed	Observations
830	60.2	7.2	2693	7200	2.4	cloudy, odor
833	61.9	7.3	2665	7200	4.8	
836	62.3	7.1	2759	7200	7.2	MC=37.91

Did well dewater? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Gallons actually evacuated: 7.2	
Sampling Date: 01/06/04	Sampling Time: 925	Depth to Water: 35.41 @ Site
Sample I.D.: MW-1	Laboratory: <u>STL</u> Other _____	
Analyzed for: <u>TPH-D</u> <u>BTEX</u> MTBE TPH-D	Other: <u>OV'S all by 8260</u>	
EB I.D. (if applicable): @ Time	Duplicate I.D. (if applicable):	
Analyzed for: TPH-G BTEX MTBE TPH-D	Other: _____	
D.O. (if req'd): Pre-purge: _____ mg/L	Post-purge: _____ mg/L	
O.R.P. (if req'd): Pre-purge: _____ mV	Post-purge: _____ mV	

SHELL WELL MONITORING DATA SHEET

BTS #: 040106-MW1	Site: 97464711
Sampler: John DeJong	Date: 01/06/04
Well I.D.: MW-2	Well Diameter: <input checked="" type="radio"/> 3 <input type="radio"/> 4 <input type="radio"/> 6 <input type="radio"/> 8
Total Well Depth (TD): 41.75	Depth to Water (DTW): 30.05
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <input checked="" type="radio"/> PVC <input type="radio"/> Grade	D.O. Meter (if req'd): YSI <input type="radio"/> HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 32.39	

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

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

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

Time	Temp (°F)	pH	Cond. (mS or μ S)	Turbidity (NTUs)	Gals. Removed	Observations
848	58.7	7.2	2827	7200	1.9	cloudy
851	61.3	7.1	2770	7200	3.8	
854	63.3	7.1	2871	7200	5.7	DW = 37.41

Did well dewater? Yes <input type="radio"/> No <input checked="" type="radio"/>	Gallons actually evacuated: 5.7	
Sampling Date: 01/06/04	Sampling Time: 935	Depth to Water: 29.23
Sample I.D.: MW2	Laboratory: <input checked="" type="radio"/> STL <input type="radio"/> Other: _____	
Analyzed for: <input checked="" type="checkbox"/> TPH-D <input checked="" type="checkbox"/> BTEX <input type="checkbox"/> MTBE <input type="checkbox"/> TPH-D	Other: <u>XY's all by 8260</u>	
EB I.D. (if applicable): @ _____	Duplicate I.D. (if applicable):	
Analyzed for: TPH-G <input type="checkbox"/> BTEX <input type="checkbox"/> MTBE <input type="checkbox"/> 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 #: 040106-MN1	Site: 97464711
Sampler: John DeJong	Date: 01/06/04
Well I.D.: MN-3	Well Diameter: <input checked="" type="radio"/> 3 <input type="radio"/> 4 <input type="radio"/> 6 <input type="radio"/> 8
Total Well Depth (TD): 43.91	Depth to Water (DTW): 29.25
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <input checked="" type="radio"/> PVC Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 32.18	

Purge Method:	<input type="checkbox"/> Bailer <input type="checkbox"/> Disposable Bailer <input checked="" type="checkbox"/> Positive Air Displacement <input type="checkbox"/> Electric Submersible	<input type="checkbox"/> Waterra <input type="checkbox"/> Peristaltic <input type="checkbox"/> Extraction Pump <input type="checkbox"/> Other: _____	Sampling Method: <input type="checkbox"/> Bailer <input type="checkbox"/> Disposable Bailer <input type="checkbox"/> Extraction Port <input type="checkbox"/> Dedicated Tubing <input type="checkbox"/> Other: _____
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$2.3 \text{ (Gals.)} \times 3 = 6.9 \text{ Gals.}$ 1 Case Volume Specified Volumes Calculated Volume	<table border="1" style="width: 100%; border-collapse: collapse; font-size: small;"> <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>radius² * 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 ² * 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 ² * 0.163														

Time	Temp (°F)	pH	Cond. (mS or μ S)	Turbidity (NTUs)	Gals. Removed	Observations
905	61.5	7.3	2900	7200	2.3	clearly
908	63.4	7.1	2991	7200	4.6	
911	63.8	7.1	2985	7200	6.9	DTW: 35.71

Did well dewater? Yes <input type="radio"/> No <input checked="" type="radio"/>	Gallons actually evacuated: 6.9	
Sampling Date: 01/06/04	Sampling Time: 950	Depth to Water: 32.11
Sample I.D.: MN-3	Laboratory: <input checked="" type="radio"/> STL Other: _____	
Analyzed for: <input checked="" type="checkbox"/> TPH-C <input checked="" type="checkbox"/> BTEX MTBE TPH-D	Other: <u>OXYS all by 8268</u>	
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	

SHELL WELL MONITORING DATA SHEET

BTS #: 040106-MD1	Site: 97464711
Sampler: John DeJong	Date: 01/06/04
Well I.D.: MW-4	Well Diameter: <u>3</u> 3 4 6 8
Total Well Depth (TD): 43.98	Depth to Water (DTW): 30.24
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>32.99</u>	

Purge Method:	<input type="checkbox"/> Bailer <input type="checkbox"/> Disposable Bailer <input checked="" type="checkbox"/> Positive Air Displacement <input type="checkbox"/> Electric Submersible	<input type="checkbox"/> Waterra <input type="checkbox"/> Peristaltic <input type="checkbox"/> Extraction Pump <input type="checkbox"/> Other _____	Sampling Method: <input checked="" type="checkbox"/> Bailer <input type="checkbox"/> Disposable Bailer <input type="checkbox"/> Extraction Port <input type="checkbox"/> Dedicated Tubing Other: _____
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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 ² * 0.163

Time	Temp (°F)	pH	Cond. (mS or μ S)	Turbidity (NTUs)	Gals. Removed	Observations
801	60.5	7.1	2541	>200	2.2	cloudy
804	62.3	7.1	2575	>200	4.4	
807	62.7	7.1	2585	>200	6.6	

Did well dewater? Yes No Gallons actually evacuated: 6.6

Sampling Date: 01/06/04 Sampling Time: 815 Depth to Water: 32.99

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

Analyzed for: TPH-D BTEX MTBE TPH-D Other: XY's all by 8263

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