

**Shell Oil Products US**

March 1, 2004

Alameda County

MAR 06 2004

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

Environmental Health

Subject: Shell-branded Service Station
11989 Dublin Boulevard
Dublin, California

Dear Mr. Seery:

Attached for your review and comment is a copy of the *Groundwater Monitoring Report - First Quarter 2004* for the above referenced site. Upon information and belief, I declare, under penalty of perjury, that the information contained in the attached document is true and correct.

As always, please feel free to contact me directly at (559) 645-9306 with any questions or concerns.

Sincerely,

Shell Oil Products US

A handwritten signature in cursive script that reads "Karen Petryna".

Karen Petryna
Sr. Environmental Engineer

C A M B R I A

Alameda County

MAR 08 2004

Environmental Health
March 1, 2004

Mr. Scott Seery
Alameda County Health Care Services Agency
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502

Re: **Groundwater Monitoring Report – First Quarter 2004**
Shell-branded Service Station
11989 Dublin Road
Dublin, California
SAP Code 135243
Incident No. 98995328



Dear Mr. Seery:

Cambria Environmental Technology, Inc. (Cambria) prepared this report on behalf of Equilon Enterprises LLC dba Shell Oil Products US (Shell) in accordance with the quarterly reporting requirements of 23 CCR 2652d.

FIRST QUARTER 2004 ACTIVITIES

Blaine Tech Services, Inc. (Blaine) of San Jose, California gauged and sampled the site wells and prepared a summary table of field gauging and laboratory analytical data. Cambria prepared a vicinity/area well survey map (Figure 1), a groundwater contour/chemical concentration map (Figure 2), and a MTBE isoconcentration map (Figure 3). Blaine's report, presenting the laboratory report, is included as Appendix A.

ANTICIPATED SECOND QUARTER 2004 ACTIVITIES

Blaine will gauge and sample the site wells according to the existing sampling schedule and tabulate the data. Cambria will prepare a groundwater monitoring report.

HISTORICAL REMEDIATION SUMMARY

Previous site remediation was performed on a weekly basis from June 30 to August 19, 2003, by periodic groundwater extraction (GWE) from well MW-2. The program removed a total of 1,587 gallons of groundwater for an estimate of 0.079 pounds of total petroleum hydrocarbons as gasoline and 1.159 pounds of MTBE. MTBE concentrations in MW-2 declined from 12,000

Cambria
Environmental
Technology, Inc.

270 Perkins Street
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Sonoma, CA 95476
Tel (707) 935-4850
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MAR 08 2004

Environmental Health

parts per billion (ppb) prior to periodic GWE to 4,800 ppb the sample event immediately after. The declining MTBE trend continues with a current concentration of 1,200 ppb MTBE in MW-2.

DECLINING TRENDS

As mentioned above, the MTBE concentrations are declining, demonstrating a shrinking plume. Specifically, well MW-2 has been declining for four consecutive events from 13,000 ppb in January 2003 to 1,200 ppb in January 2004. Well MW-3 has declined from a maximum concentration of 25,200 ppb in July 2000 to 40 ppb in January 2004. And well MW-4 has declined from approximately 7,000 ppb in July 2002 to <10 ppb in January 2004. The corresponding concentrations of tert-butyl alcohol suggest that the decline in MTBE concentrations is due, at least in part, to bioremediation processes.



CLOSING

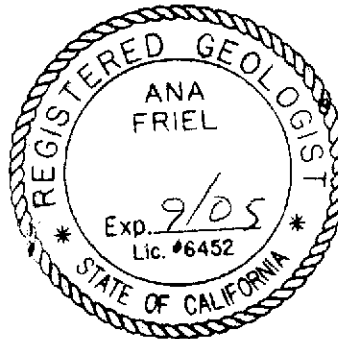
If you have any questions regarding the contents of this document, please call Ana Friel at (707) 442-2700.

Sincerely,

Cambria Environmental Technology, Inc.

Lisa Summers
Staff Scientist

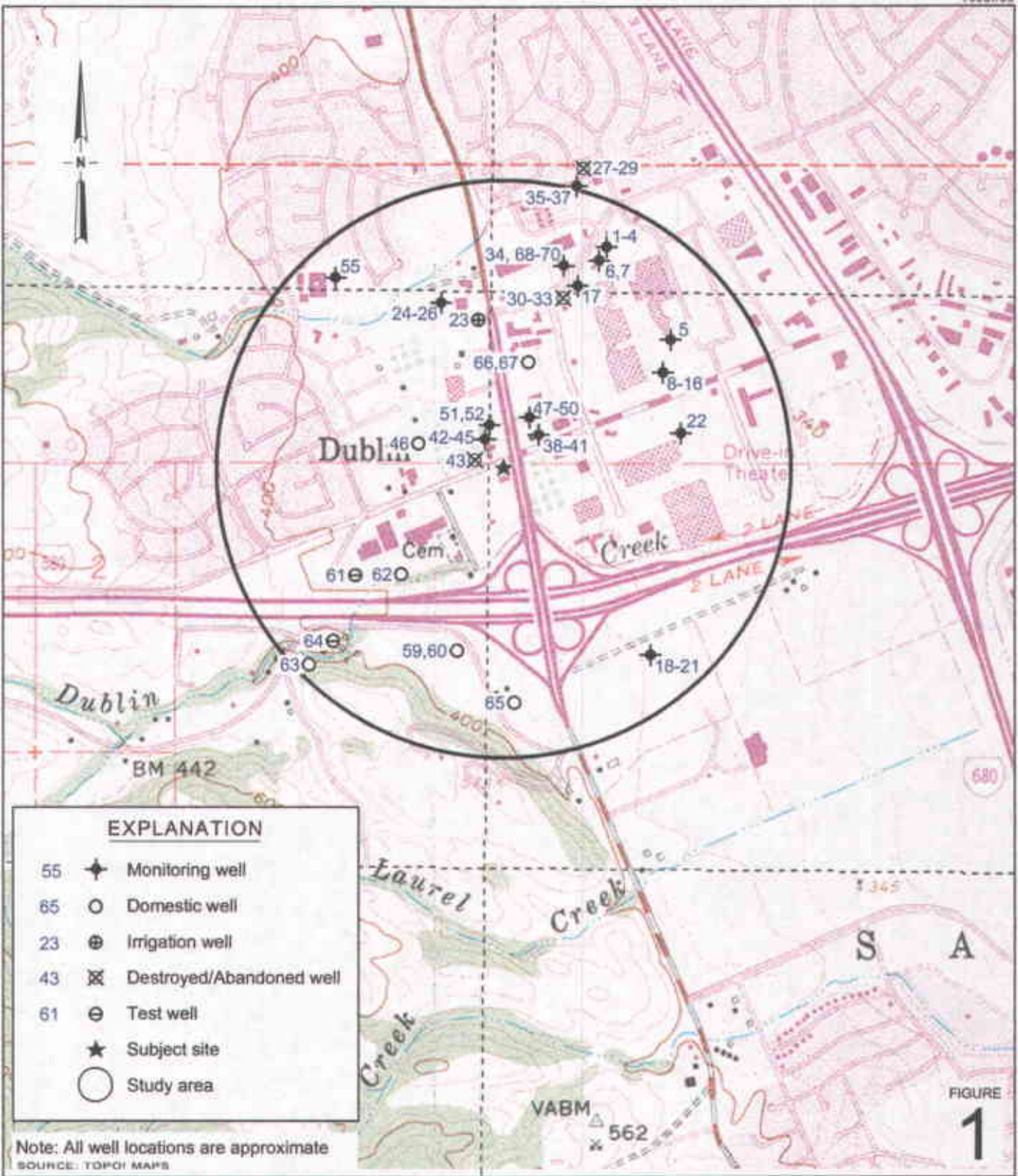
Ana Friel, RG
Senior Project Geologist
RG# 6452



Attachments:

- Figure 1. Vicinity/Area Well Survey Map
 - Figure 2. Groundwater Contour/Chemical Concentration Map
 - Figure 3. MTBE Isoconcentration Contour Map
- Appendix A. Blaine Tech Services Inc., Groundwater Monitoring Report

cc: Karen Petryna, Shell

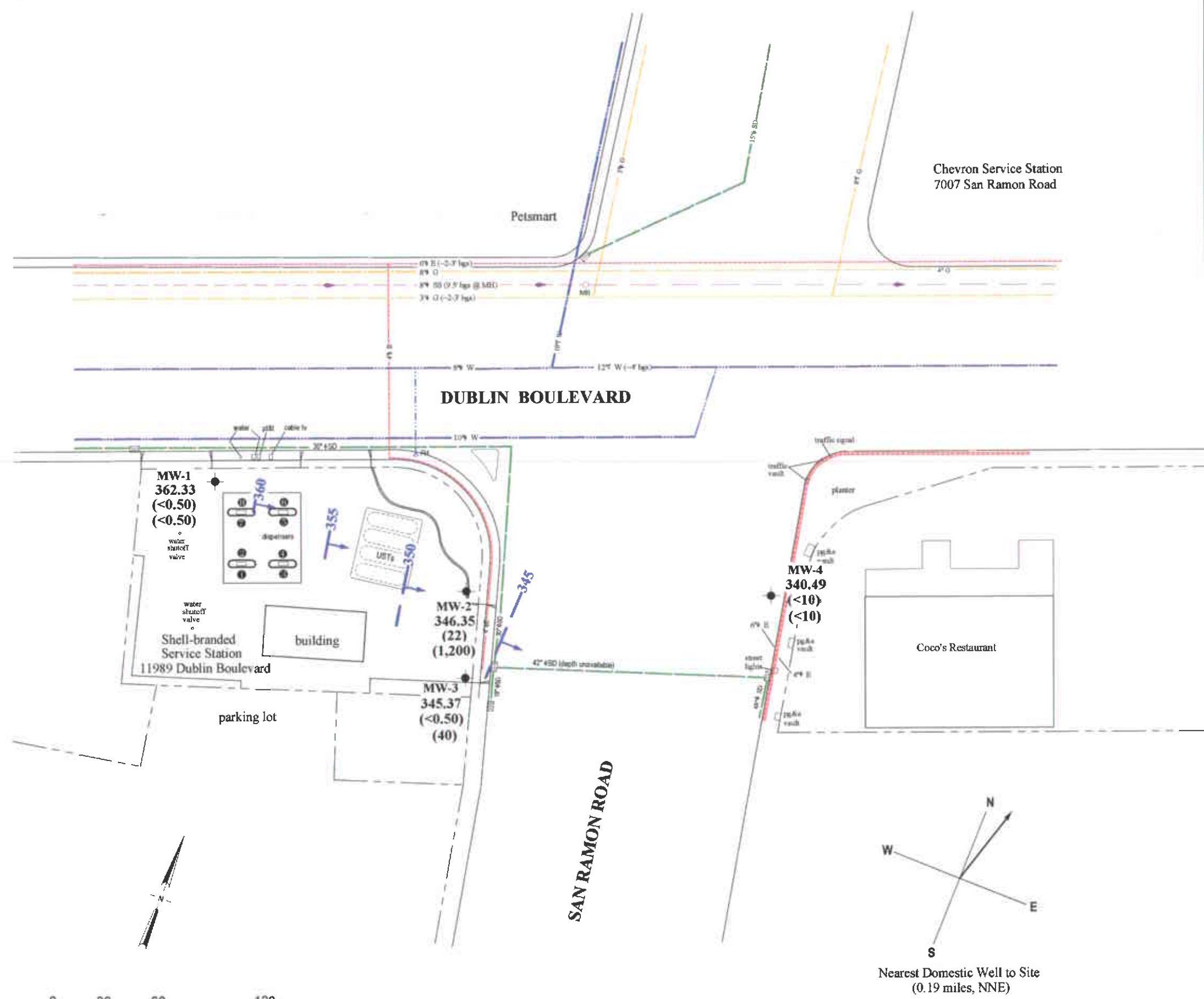


Shell-branded Service Station
 11989 Dublin Boulevard
 Dublin, California



C A M B R I A

**Vicinity/Area Well
 Survey Map**
 (1/2 Mile Radius)



EXPLANATION

- Monitoring well location
- Product dispenser number
- FH ○ Fire Hydrant (FH)
- MH ○ Manhole (MH)
- ≡ Storm drain inlet
- 1.27' bgs Utility depth below ground surface
- Flow direction indicator
- Gas line (G)
- Storm Drain line (SD)
- Water line (W)
- Sanitary Sewer line (SS)
- Electric line (E)

↖ ↗ Groundwater elevation contour in feet referenced to mean sea level (ft msl). Arrows indicate approximate groundwater flow direction

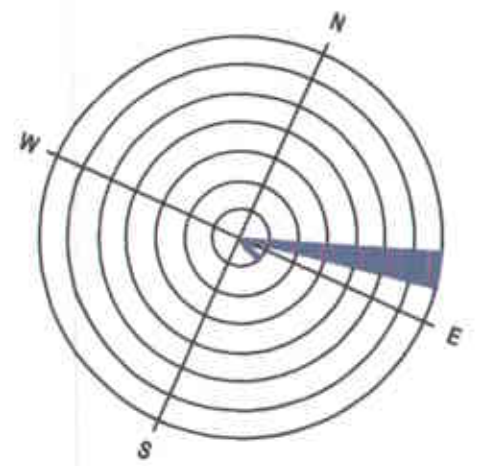
362.04 Groundwater elevation in ft msl

(<0.50) Benzene concentration in parts per billions (ppb)

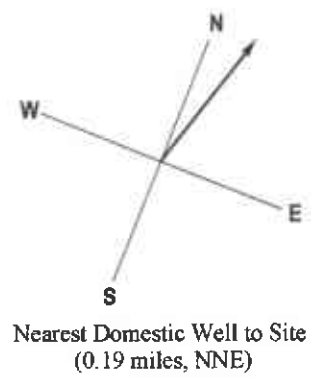
(<0.50) MTBE concentration in ppb

<x Not detected at reporting limit x

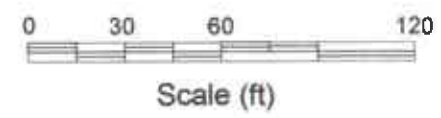
Approximate hydraulic gradient = 0.1



Groundwater Gradient Direction
(07/20/99 to 01/05/04)

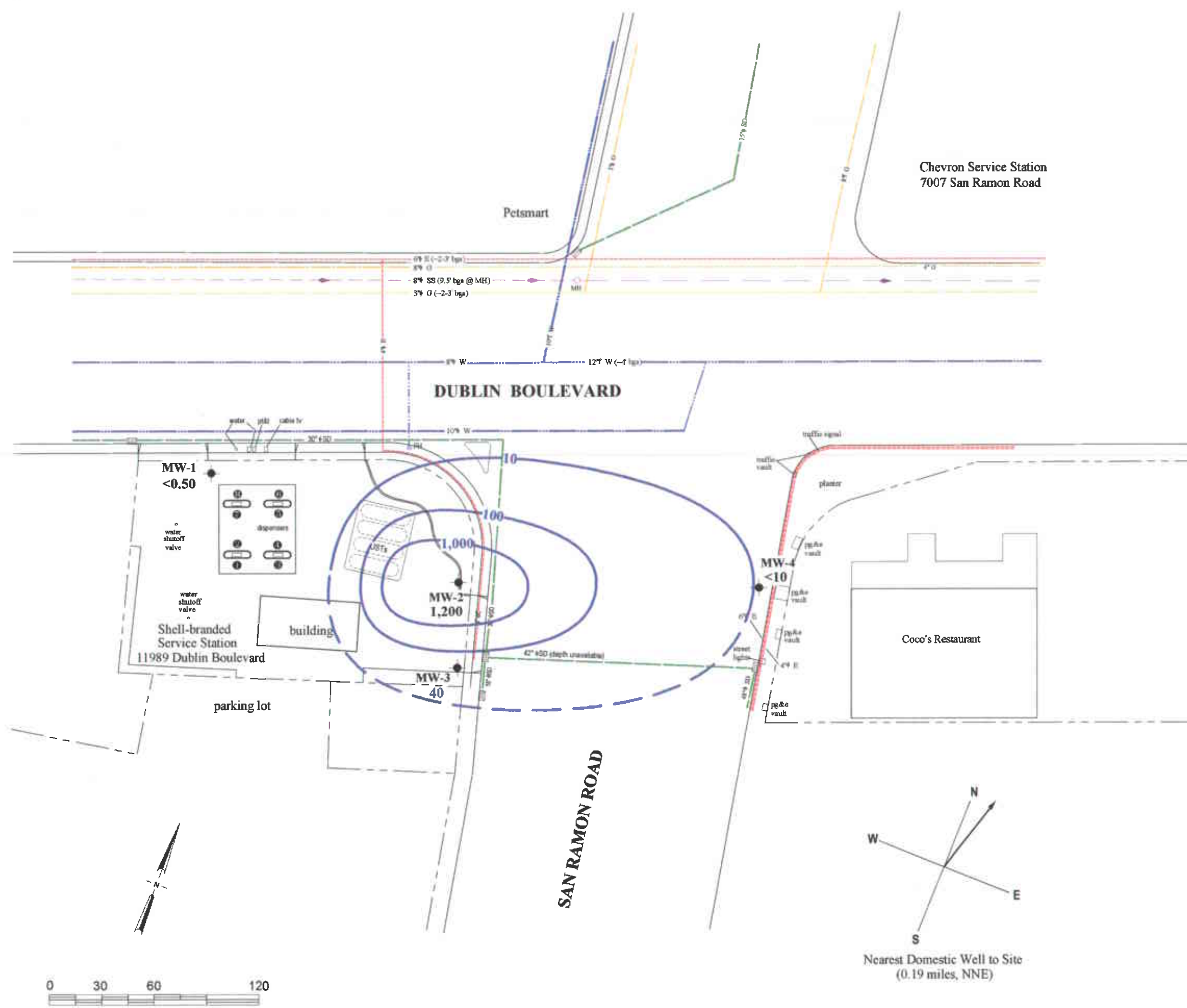


Nearest Domestic Well to Site
(0.19 miles, NNE)



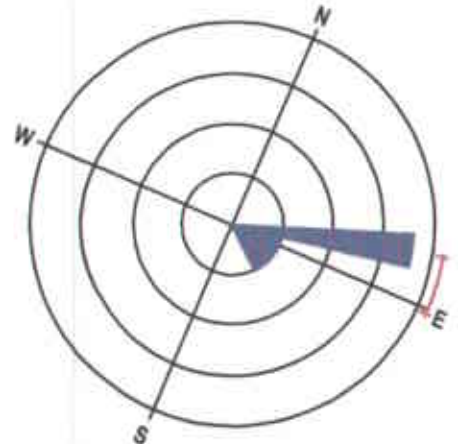
Scale (ft)

FIGURE
2

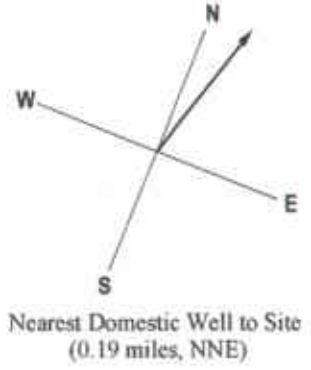


EXPLANATION

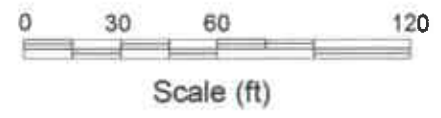
- Monitoring well location
- Product dispenser number
- FH ○ Fire Hydrant (FH)
- MH ○ Manhole (MH)
- Storm drain inlet
- 8.28 bgs Utility depth below ground surface
- ▶ Flow direction indicator
- Gas line (G)
- Storm Drain line (SD)
- Water line (W)
- Sanitary Sewer line (SS)
- Electric line (E)
- MTBE isoconcentration contour - dashed where inferred.
- <0.50 MTBE concentration in ppb
- <x Not detected at reporting limit x



Groundwater Gradient Direction (07/20/99 to 08/27/03)



Nearest Domestic Well to Site (0.19 miles, NNE)



Scale (ft)



FIGURE
3

Appendix A

**Blaine Tech Services Inc.,
Groundwater Monitoring 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
11989 Dublin Boulevard
Dublin, CA

Monitoring performed on January 5, 2004

Groundwater Monitoring Report **040105-DW-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.

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: Ana Friel
Cambria Environmental Technology, Inc.
P.O. Box 259
Sonoma, CA 95476-0259

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)	D.O. Reading (ppm)
MW-1	07/20/1999	<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	01/27/2000	<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	04/03/2000	<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	07/27/2000	<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	01/16/2001	<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	04/19/2001	<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	07/13/2001	<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	08/13/2001	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	01/11/2002	<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	05/22/2002	<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	07/15/2002	<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	01/17/2003	<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	05/01/2003	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	08/27/2003	<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	10/03/2003	<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	01/05/2004	<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-2	07/20/1999	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
MW-2	01/27/2000	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	04/03/2000	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	07/27/2000	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	01/16/2001	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	04/19/2001	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	07/13/2001	<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	08/13/2001	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	01/11/2002	<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	05/22/2002	<5,000	NA	53	<50	57	<50	NA	20,000	<50	<50	<50	6,300	NA	365.43	20.59	344.84	NA

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)	D.O. Reading (ppm)
MW-2	07/15/2002	<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	01/17/2003	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	05/01/2003	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	08/27/2003	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	10/03/2003	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	01/05/2004	6,500	NA	22	<13	58	<25	NA	1,200	<50	<50	<50	7,400	NA	365.43	19.08	346.35	NA

MW-3	07/20/1999	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	01/27/2000	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	04/03/2000	<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	07/27/2000	4,360	NA	78.4	6.95	85.8	2.61	26,600	25,200b	NA	NA	NA	NA	NA	364.97	19.10	345.87	1.9/2.0
MW-3	10/16/2000	586	NA	21.3	<0.500	<0.500	<0.500	3,310	NA	NA	NA	NA	NA	NA	364.97	24.11	340.86	1.1/0.8
MW-3	01/16/2001	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	04/19/2001	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	07/13/2001	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	08/13/2001	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	01/11/2002	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	05/22/2002	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	07/15/2002	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	01/17/2003	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	05/01/2003	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	08/27/2003	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	10/03/2003	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	01/05/2004	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-4	08/10/2001	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	364.01	25.63	338.38	NA
MW-4	08/13/2001	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	01/11/2002	<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	05/22/2002	<500	NA	<5.0	<5.0	<5.0	<5.0	NA	3,200	<5.0	<5.0	<5.0	2,500	NA	364.01	23.96	340.05	NA

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

Well ID	Date	TPPH (ug/L)	TEPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	Ethanol (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	D.O. Reading (ppm)
MW-4	07/15/2002	<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	01/17/2003	580	NA	<2.5	<2.5	<2.5	<2.5	NA	59	<2.5	<2.5	<2.5	7,000	NA	363.97	22.38	341.59	NA
MW-4	05/01/2003	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	08/27/2003	<1,000	NA	<10	<10	<10	<20	NA	370	<40	<40	<40	11,000	NA	363.97	25.31	338.66	NA
MW-4	10/03/2003	<1,000	NA	<10	<10	<10	<20	NA	190	<40	<40	<40	11,000	NA	363.97	26.00	337.97	NA
MW-4	01/05/2004	<1,000	NA	<10	<10	<10	<20	NA	<10	<40	<40	<40	7,400	NA	363.97	23.48	340.49	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 by EPA Method 8020.

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

ETBE = Ethyl tert-butyl ether, analyzed by EPA Method 8260

TAME = Tert-amyl methyl ether, analyzed by EPA Method 8260

TBA = Tert-butyl alcohol, analyzed by EPA Method 8260

TOC = Top of Casing Elevation

GW = Groundwater

DO = Dissolved Oxygen

ug/L = Parts per billion

ppm = Parts per million

MSL = Mean sea level

ft = Feet

<n = Below detection limit

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

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)	D.O. Reading (ppm)
---------	------	----------------	----------------	-------------	-------------	-------------	-------------	------------------------	------------------------	----------------	----------------	----------------	---------------	-------------------	--------------	----------------------------	--------------------------	--------------------------

Notes:

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

b = Concentration is an estimate.

c = D.O. meter malfunctioning.

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

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

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

Blaine Tech Services, Inc.

January 19, 2004

1680 Rogers Avenue
San Jose, CA 95112-1105
Attn.: Leon Gearhart
Project#: 040105-DW-2
Project: 98995328
Site: 11989 Dublin Boulevard, Dublin

Dear Mr. Gearhart,

Attached is our report for your samples received on 01/06/2004 18:33
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
02/20/2004 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/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: 040105-DW-2
98995328

Received: 01/06/2004 18:33

Site: 11989 Dublin Boulevard, Dublin

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
MW-1	01/05/2004 17:00	Water	1

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 16:37

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: 040105-DW-2
98995328

Received: 01/06/2004 18:33

Site: 11989 Dublin Boulevard, Dublin

Prep(s):	5030B	Test(s):	8260B
Sample ID:	MW-1	Lab ID:	2004-01-0094
Sampled:	01/05/2004 17:00	Extracted:	01/09/2004 18:52
Matn:	Water	QC Batch#:	2004/01/09_2D.6

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	01/09/2004 18:52	
Benzene	ND	0.50	ug/L	1.00	01/09/2004 18:52	
Toluene	ND	0.50	ug/L	1.00	01/09/2004 18:52	
Ethylbenzene	ND	0.50	ug/L	1.00	01/09/2004 18:52	
Total xylenes	ND	1.0	ug/L	1.00	01/09/2004 18:52	
Methyl tert-butyl ether (MTBE)	ND	0.50	ug/L	1.00	01/09/2004 18:52	
Surrogate(s)						
1,2-Dichloroethane-d4	89.1	76-130	%	1.00	01/09/2004 18:52	
Toluene-d8	94.0	78-115	%	1.00	01/09/2004 18:52	

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: 040105-DW-2
98995328

Received: 01/06/2004 18:33

Site: 11989 Dublin Boulevard, Dublin

Batch QC Report			
Prep(s): 8260B	Water	Test: 8260B	
Method Blank		QC Batch # 2004/01/09 2D 64	
IME: 2004/01/09 2D 64 024		Date Extracted: 01/09/2004 18:24	

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	01/09/2004 18:24	
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	01/09/2004 18:24	
Benzene	ND	0.5	ug/L	01/09/2004 18:24	
Toluene	ND	0.5	ug/L	01/09/2004 18:24	
Ethylbenzene	ND	0.5	ug/L	01/09/2004 18:24	
Total xylenes	ND	1.0	ug/L	01/09/2004 18:24	
Surrogates(s)					
1,2-Dichloroethane-d4	85.8	76-130	%	01/09/2004 18:24	
Toluene-d8	93.0	78-115	%	01/09/2004 18:24	

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: 040105-DW-2

98995328

Received: 01/06/2004 18:33

Site: 11989 Dublin Boulevard, Dublin

Batch QC Report		
Prep(s): 5030B		Test(s): 8260B
Laboratory Control Spike	Water	QC Batch #: 2004/01/09-2D-64
LCS: 2004/01/09-2D-64-040	Extracted: 01/09/2004	Analyzed: 01/09/2004 17:40
LCSD: 2004/01/09-2D-64-002	Extracted: 01/09/2004	Analyzed: 01/09/2004 18:02

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctr.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Methyl tert-butyl ether (MTBE)	22.5	23.1	25	90.0	92.4	2.6	65-165	20		
Benzene	23.7	24.3	25	94.8	97.2	2.5	69-129	20		
Toluene	24.4	24.9	25	97.6	99.6	2.0	70-130	20		
Surrogates(s)										
1,2-Dichloroethane-d4	424	410	500	84.8	82.0		76-130			
Toluene-d8	459	456	500	91.8	91.2		78-115			

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 16:37

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: 040105-DW-2
98995328

Received: 01/06/2004 18:33

Site: 11989 Dublin Boulevard, Dublin

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
MW-2	01/05/2004 17:20	Water	2
MW-3	01/05/2004 17:12	Water	3
MW-4	01/05/2004 15:55	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 16:37

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: 040105-DW-2

98995328

Received: 01/06/2004 18:33

Site: 11989 Dublin Boulevard, Dublin

Prep(s):	5030B	Test(s):	8260B
Sample ID:	MW-2	Lab ID:	2004-01-0094-2
Sampled:	01/05/2004 17:20	Extracted:	01/09/2004 19:14
Matrix:	Water	GC Batch#:	2004/01/09-2634
Analysis Flag: 0 (See legend and Note Section)			

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	6500	1300	ug/L	25.00	01/09/2004 19:14	
Benzene	22	13	ug/L	25.00	01/09/2004 19:14	
Toluene	ND	13	ug/L	25.00	01/09/2004 19:14	
Ethylbenzene	58	13	ug/L	25.00	01/09/2004 19:14	
Total xylenes	ND	25	ug/L	25.00	01/09/2004 19:14	
tert-Butyl alcohol (TBA)	7400	130	ug/L	25.00	01/09/2004 19:14	
Methyl tert-butyl ether (MTBE)	1200	13	ug/L	25.00	01/09/2004 19:14	
Di-isopropyl Ether (DIPE)	ND	50	ug/L	25.00	01/09/2004 19:14	
Ethyl tert-butyl ether (ETBE)	ND	50	ug/L	25.00	01/09/2004 19:14	
tert-Amyl methyl ether (TAME)	ND	50	ug/L	25.00	01/09/2004 19:14	
Surrogate(s)						
1,2-Dichloroethane-d4	91.7	76-130	%	25.00	01/09/2004 19:14	
Toluene-d8	92.7	78-115	%	25.00	01/09/2004 19:14	

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: 040105-DW-2
98995328

Received: 01/06/2004 18:33

Site: 11989 Dublin Boulevard, Dublin

Prep(s)	5000B	Test(s)	8260B
Sample ID	MW-3	Lab ID	2004-01-0094-3
Sampled	01/05/2004 17:12	Extracted	01/10/2004 13:29
Matrix	Water	QC Batch	2004-01-01-03-06

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	860	50	ug/L	1.00	01/10/2004 13:29	g
Benzene	ND	0.50	ug/L	1.00	01/10/2004 13:29	
Toluene	ND	0.50	ug/L	1.00	01/10/2004 13:29	
Ethylbenzene	ND	0.50	ug/L	1.00	01/10/2004 13:29	
Total xylenes	ND	1.0	ug/L	1.00	01/10/2004 13:29	
tert-Butyl alcohol (TBA)	750	5.0	ug/L	1.00	01/10/2004 13:29	
Methyl tert-butyl ether (MTBE)	40	0.50	ug/L	1.00	01/10/2004 13:29	
Di-isopropyl Ether (DIPE)	ND	2.0	ug/L	1.00	01/10/2004 13:29	
Ethyl tert-butyl ether (ETBE)	ND	2.0	ug/L	1.00	01/10/2004 13:29	
tert-Amyl methyl ether (TAME)	ND	2.0	ug/L	1.00	01/10/2004 13:29	
Surrogate(s)						
1,2-Dichloroethane-d4	94.4	76-130	%	1.00	01/10/2004 13:29	
Toluene-d8	97.1	78-115	%	1.00	01/10/2004 13:29	

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: 040105-DW-2

98995328

Received: 01/06/2004 18:33

Site: 11989 Dublin Boulevard, Dublin

Prep(s):	5030B	Test(s):	8260B
Sample ID:	MW-4	Lab ID:	2004-01-0094-4
Sampled:	01/05/2004 15:55	Extracted:	01/09/2004 19:58
Matrix:	Water	QC Batch#:	2004/01/09 20:04
Analysis Flags: (See Legend and Note Section)			

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	1000	ug/L	20.00	01/09/2004 19:58	
Benzene	ND	10	ug/L	20.00	01/09/2004 19:58	
Toluene	ND	10	ug/L	20.00	01/09/2004 19:58	
Ethylbenzene	ND	10	ug/L	20.00	01/09/2004 19:58	
Total xylenes	ND	20	ug/L	20.00	01/09/2004 19:58	
tert-Butyl alcohol (TBA)	7400	100	ug/L	20.00	01/09/2004 19:58	
Methyl tert-butyl ether (MTBE)	ND	10	ug/L	20.00	01/09/2004 19:58	
Di-isopropyl Ether (DIPE)	ND	40	ug/L	20.00	01/09/2004 19:58	
Ethyl tert-butyl ether (ETBE)	ND	40	ug/L	20.00	01/09/2004 19:58	
tert-Amyl methyl ether (TAME)	ND	40	ug/L	20.00	01/09/2004 19:58	
Surrogate(s)						
1,2-Dichloroethane-d4	92.0	76-130	%	20.00	01/09/2004 19:58	
Toluene-d8	93.0	78-115	%	20.00	01/09/2004 19:58	

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

Blaine Tech Services, Inc.

Attn.: Leon Gearhart

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

Project: 040105-DW-2
98995328

Received: 01/06/2004 18:33

Site: 11989 Dublin Boulevard, Dublin

Batch QC Report			
Prep(s): 5030B	Water	Test(s): 8260B	
Method: Blank		QC Batch #: 2004/01/09/2C-64	
MB: 2004/01/09/2C-64-024		Date Extracted: 01/09/2004 18:24	

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	01/09/2004 18:24	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	01/09/2004 18:24	
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	01/09/2004 18:24	
Di-isopropyl Ether (DIPE)	ND	2.0	ug/L	01/09/2004 18:24	
Ethyl tert-butyl ether (ETBE)	ND	2.0	ug/L	01/09/2004 18:24	
tert-Amyl methyl ether (TAME)	ND	2.0	ug/L	01/09/2004 18:24	
Benzene	ND	0.5	ug/L	01/09/2004 18:24	
Toluene	ND	0.5	ug/L	01/09/2004 18:24	
Ethylbenzene	ND	0.5	ug/L	01/09/2004 18:24	
Total xylenes	ND	1.0	ug/L	01/09/2004 18:24	
Surrogates(s)					
1,2-Dichloroethane-d4	85.8	76-130	%	01/09/2004 18:24	
Toluene-d8	93.0	78-115	%	01/09/2004 18:24	

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: 040105-DW-2

98995328

Received: 01/06/2004 18:33

Site: 11989 Dublin Boulevard, Dublin

Batch QC Report	
Prep(s): 5030B	Test(s): 8260B
Method Blank	Water
MB: 2004/01/10 09:40:04	QC Batch #: 2004/01/10 09:40:04
	Date Extracted: 01/10/2004 09:40

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	01/10/2004 09:40	
Benzene	ND	0.5	ug/L	01/10/2004 09:40	
Toluene	ND	0.5	ug/L	01/10/2004 09:40	
Ethylbenzene	ND	0.5	ug/L	01/10/2004 09:40	
Total xylenes	ND	1.0	ug/L	01/10/2004 09:40	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	01/10/2004 09:40	
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	01/10/2004 09:40	
Di-isopropyl Ether (DIPE)	ND	2.0	ug/L	01/10/2004 09:40	
Ethyl tert-butyl ether (ETBE)	ND	2.0	ug/L	01/10/2004 09:40	
tert-Amyl methyl ether (TAME)	ND	2.0	ug/L	01/10/2004 09:40	
Surrogates(s)					
1,2-Dichloroethane-d4	93.0	76-130	%	01/10/2004 09:40	
Toluene-d8	94.4	78-115	%	01/10/2004 09:40	

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

Blaine Tech Services, Inc.

Attn.: Leon Gearhart

1680 Rogers Avenue

San Jose, CA 95112-1105

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

Project: 040105-DW-2
98995328

Received: 01/06/2004 18:33

Site: 11989 Dublin Boulevard, Dublin

Batch QC Report			
Prep(s): 5030B	Test(s): 8260B		
Laboratory Control Spike	Water	QC Batch #: 2004/01/09/20/61	
LCS: 2004/01/09/20/61-040	Extracted: 01/09/2004	Analyzed: 01/09/2004 17:40	
LCSD: 2004/01/09/20/61-062	Extracted: 01/09/2004	Analyzed: 01/09/2004 18:02	

Compound	Conc. ug/L		Exp. Conc.	Recovery %		RPD	Ctrl. Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Methyl tert-butyl ether (MTBE)	22.5	23.1	25	90.0	92.4	2.6	65-165	20		
Benzene	23.7	24.3	25	94.8	97.2	2.5	69-129	20		
Toluene	24.4	24.9	25	97.6	99.6	2.0	70-130	20		
Surrogates(s)										
1,2-Dichloroethane-d4	424	410	500	84.8	82.0		76-130			
Toluene-d8	459	456	500	91.8	91.2		78-115			

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: 040105-DW-2
98995328

Received: 01/06/2004 18:33

Site: 11989 Dublin Boulevard, Dublin

Batch QC Report			
Prep(s): 5030B			Test(s): 8260B
Laboratory Control Spike	Water		QC Batch #: 2004/01/10-01-66
LCS: 2004/01/10-01-66-052	Extracted: 01/10/2004		Analyzed: 01/10/2004-08:52
LCSD: 2004/01/10-01-66-016	Extracted: 01/10/2004		Analyzed: 01/10/2004-09:16

Compound	Conc. ug/L		Exp. Conc.	Recovery %		RPD	Ctrl. Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Benzene	22.7	22.4	25.0	90.8	89.6	1.3	69-129	20		
Toluene	22.8	22.8	25.0	91.2	91.2	0.0	70-130	20		
Methyl tert-butyl ether (MTBE)	22.0	22.6	25.0	88.0	90.4	2.7	65-165	20		
Surrogates(s)										
1,2-Dichloroethane-d4	463	450	500	92.6	90.0		76-130			
Toluene-d8	439	468	500	87.8	93.6		78-115			

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: 040105-DW-2

98995328

Received: 01/06/2004 18:33

Site: 11989 Dublin Boulevard, Dublin

Legend and Notes

Analysis Flag

o

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

Result Flag

g

Hydrocarbon reported in the gasoline range does not match our gasoline standard.

SHELL Chain Of Custody Record

8729

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

Shell Project Manager to be involved:

- SCIENCE & ENGINEERING
- TECHNICAL SERVICES
- ENVIRONMENT

Karen Petryna

2004-01-0094

INCIDENT NUMBER (SLS ONLY)							
9	8	9	9	5	3	2	8
SAP or CRMT NUMBER (ITS/CRMT)							

DATE: 1-5-03
 PAGE: 1 of 1

SEARCHING COUNTRY: Blaine Tech Services	LOG CODE: BTSS	SITE ADDRESS (Street and City): 11989 Dublin Boulevard, Dublin	GLOBAL ID NO: T0600102083
ADDRESS: 1680 Rogers Avenue, San Jose, CA 95112		EDF CONTACTABLE TO (Responsible Party or Designee): Ana Friel	PHONE NO: (707) 442-2700
FACILITY CONTACT (Name, Title or Part Number): Leon Gearhart		EMAIL: sonomaedf@cambridge-env.com	CONSULTANT PROJECT NO: 07/0105-002
TELEPHONE: 408-573-0655	FAX: 408-573-7771	EMAIL: lgearhart@blainetech.com	LAB USE ONLY

TURNAROUND TIME (BUSINESS DAYS):
 7-10 DAYS 5 DAYS 72 HOURS 48 HOURS 24 HOURS LESS THAN 24 HOURS

LA - RIVIERA REPORT FORMAT UST AGENCY

GC/MS MTBE CONFIRMATION: HIGHEST _____ HIGHEST OR BOPING _____ ALL _____

SPECIAL INSTRUCTIONS OR NOTES: _____ CHECK BOX IF EDO IS NOT NEEDED

REQUESTED ANALYSIS											
TYPE - Gas, Purgeable	MTBE (R221B - Spill RL)	MTBE (R220B - 0.3ppm RL)	Organics (B) by (R250B)	Ethanol (R250B)	Methanol	1,2-DCA (R250B)	FCB (R250B)	TPH - Diesel, Extractable (R150B)	FIELD NOTES:		
X	X	X	X						Container/Preservative or PLO Reading or Laboratory Notes <div style="text-align: center; font-size: 1.5em;">3-5</div> TEMPERATURE ON RECEIPT C°		

CASE NO. ONLY	Field Sample Identification	SAMPLING		MATRIX	NO. OF CONT.	TPH - Gas, Purgeable	MTBE	MTBE (R221B - Spill RL)	MTBE (R220B - 0.3ppm RL)	Organics (B) by (R250B)	Ethanol (R250B)	Methanol	1,2-DCA (R250B)	FCB (R250B)	TPH - Diesel, Extractable (R150B)
		DATE	TIME												
	MW-1	1-5	17:00	W	3	X	X	X	X	X					
	MW-2	↓	17:20	↓	↓	X	X	X	X	X					
	MW-3	↓	17:02	↓	↓	X	X	X	X	X					
	MW-4	↓	15:55	↓	↓	X	X	X	X	X					

Received by (Signature): <i>[Signature]</i>	Received by (Signature): <i>[Signature]</i>	Date: <u>1/6/04</u>	Time: <u>11:55</u>
Received by (Signature): <i>[Signature]</i>	Received by (Signature): <i>[Signature]</i>	Date: <u>1-6-04</u>	Time: <u>18:33</u>