



Shell Oil Products US

April 19, 2004

R0305

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

APR 23 2004
8:00 AM
SHELL OIL PRODUCTS US

Subject: Shell-branded Service Station
2001 Fruitvale Avenue
Oakland, California

Dear Mr. Gholami:

Attached for your review and comment is a copy of the *First Quarter 2004 Monitoring Report* 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

Karen Petryna

Karen Petryna
Sr. Environmental Engineer

April 19, 2004

Amir Gholami
Alameda County Health Care Services Agency
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502-6577

Re: **First Quarter 2004 Monitoring Report**
Former Shell Service Station
2001 Fruitvale Avenue
Oakland, California
Incident # 97109122
Cambria Project # 246-1296-002



Dear Mr. Gholami:

On behalf of Equilon Enterprises LLC dba Shell Oil Products US, Cambria Environmental Technology, Inc. (Cambria) is submitting this groundwater monitoring report in accordance with the reporting requirements of 23 CCR 2652d.

FIRST QUARTER 2004 ACTIVITIES

Groundwater Monitoring: Blaine Tech Services, Inc. (Blaine) of San Jose, California developed, gauged and sampled all site wells, calculated groundwater elevations, and compiled the analytical data. Cambria prepared a site vicinity map which includes previously submitted well survey information (Figure 1) and a groundwater elevation contour map (Figure 2). Blaine's report, including the analytical laboratory report and supporting field documents, is presented as Attachment A.

The groundwater monitoring indicated a southwesterly groundwater flow direction. No indication of free product was observed in groundwater. Based upon the groundwater flow direction and the low chemical concentrations, it appears that no significant hydrocarbon plume is present.

**Cambria
Environmental
Technology, Inc.**

5900 Hollis Street
Suite A
Emeryville, CA 94608
Tel (510) 420-0700
Fax (510) 420-9170

ANTICIPATED SECOND QUARTER 2004 ACTIVITIES

Groundwater Monitoring: The next sampling event is scheduled for second quarter 2004. At that time, Blaine will gauge and sample all wells and tabulate the data. Cambria will prepare a monitoring report.

Case Closure and Reduced Monitoring Requests: Groundwater monitoring has now been conducted for four consecutive quarters. Monitoring results have been consistently below applicable risk-based screening levels. As a result, Cambria believes groundwater conditions do not present a significant risk to human health or the environment. Therefore, as Cambria discussed in the July 29, 2003 *Second Quarter 2003 Monitoring Report*, Cambria recommends no further investigation and hereby requests case closure. In the interim while this case closure request is pending approval, Cambria requests to reduce the groundwater monitoring frequency to annual, to be conducted during the first quarter of each year. Cambria will implement this change 60 days from submittal of this report, unless otherwise directed.



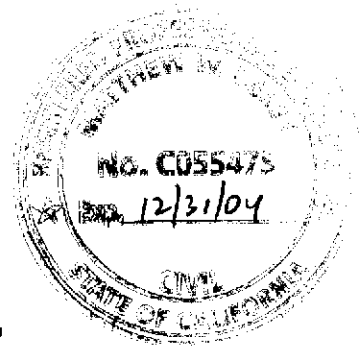
CLOSING

We appreciate the opportunity to work with you on this project. Please call Matt Derby at (510) 420-3332, if you have any questions or comments.

Sincerely,
Cambria Environmental Technology, Inc

Matthew W. Derby

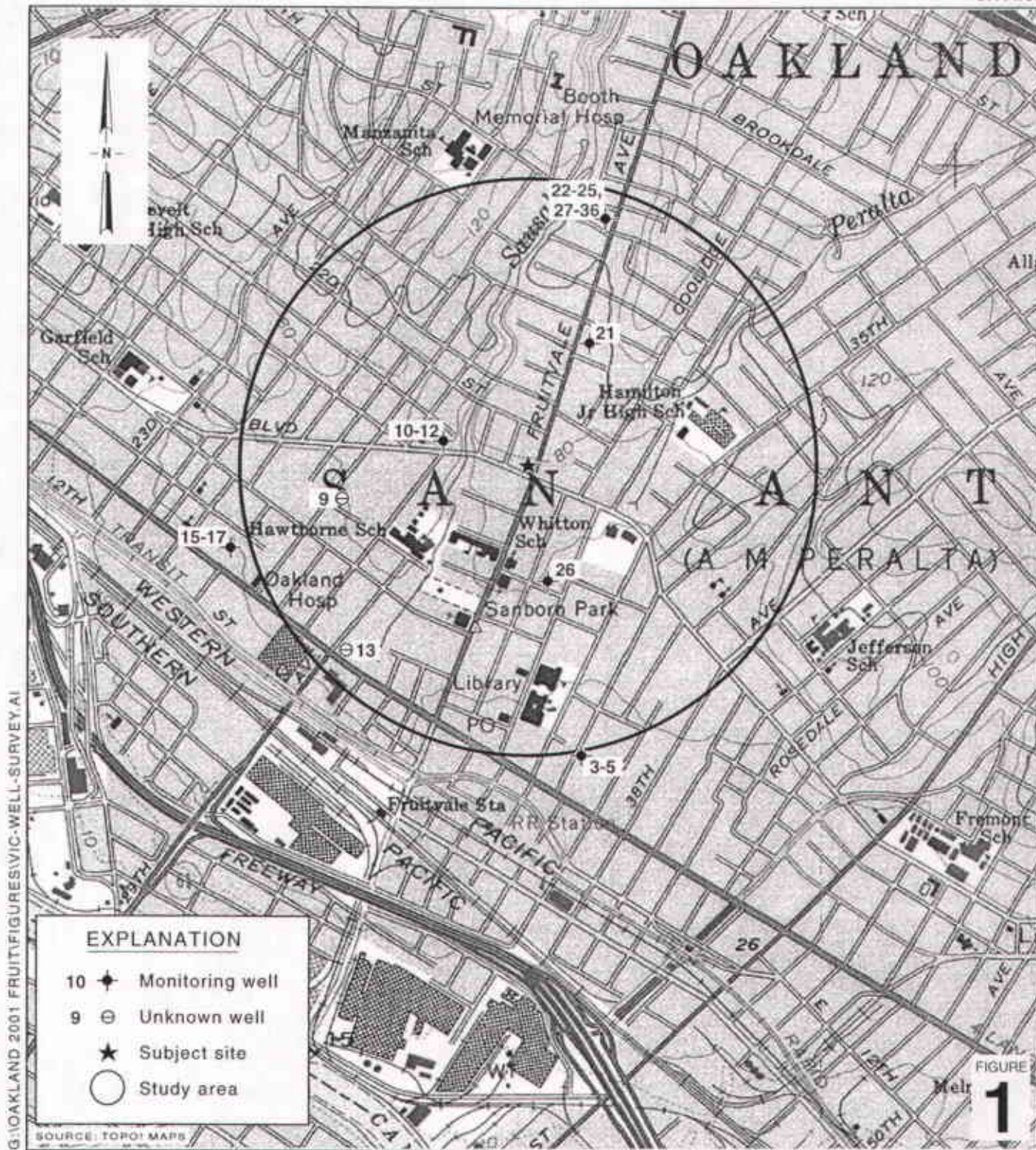
Matthew W. Derby, P.E.
Senior Project Engineer



- Figures: 1 - Vicinity/Area Well Survey Map
2 - Groundwater Elevation Contour Map

Attachment: A - Blaine Groundwater Monitoring Report and Field Notes

cc: Karen Petryna, Shell Oil Products US, 20945 S. Wilmington Ave., Carson, CA 90810
Mr. Fidel P. & Mrs. Dolores G. Casillas, 2910 East 16th Street, Oakland, CA 94601



G:\OAKLAND 2001 FRUITFIGURES\VIC-WELL-SURVEY.A1

Former Shell Service Station
 2001 Fruitvale Avenue
 Oakland, California
 Incident #97109122



C A M B R I A

**Site Vicinity/Area Well
 Survey Map**

(1/2 Mile Radius)



EXPLANATION

- MW-1 ● Monitoring well location (Cambria, 03/03)
- SB-A ● Soil boring location (Cambria, 03/99)
- SB-1 ● Soil boring location (AICal, 01/96)

- Gas line (G)
- Storm drain line (SD)
- Electrical line (E)
- Overhead electrical line (OE)

• Items marked "proposed" on 1957 site plan; undetermined if ever installed

➔ Groundwater flow direction

— xx.xx Groundwater elevation contour, in feet above mean sea level (msl), approximately located, dashed where inferred

Well	Well designation
ELEV	Groundwater elevation, in feet above msl
Benzene MTBE	Benzene and MTBE concentrations are in parts per billion and are analyzed by EPA Method 8260.

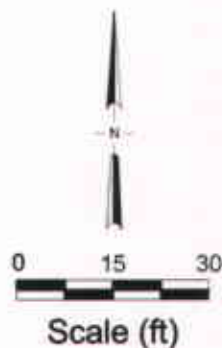


FIGURE
2

Former Shell Service Station

2001 Fruitvale Avenue
Oakland, California
Incident #97109122



C A M B R I A

Groundwater Elevation Contour Map

January 22, 2004

G:\WORK\0301\FRUITVALE\FIGURE2\FORMA.DWG

ATTACHMENT A
Blaine Groundwater Monitoring Report
and Field Notes

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 26, 2004

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

First Quarter 2004 Groundwater Monitoring at
Former Shell Service Station
2001 Fruitvale Avenue
Oakland, CA

Monitoring performed January 22, 2004

Groundwater Monitoring Report **040122-PC-1**

This report covers the routine monitoring of groundwater wells at this former Shell 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: Anni Kreml
Cambria Environmental Technology, Inc.
5900 Hollis Street, Suite A
Oakland, CA 94608

WELL CONCENTRATIONS
Former Shell Service Station
2001 Fruitvale Avenue
Oakland, 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)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)
MW-1	05/01/2003	NA	NA	NA	NA	NA	NA	NA	74.37	18.82	55.55
MW-1	05/13/2003	260 a	<50	<0.50	<0.50	<0.50	<1.0	<0.50	74.37	18.99	55.38
MW-1	07/01/2003	<50	<50	<0.50	<0.50	<0.50	<1.0	<0.50	74.37	21.11	53.26
MW-1	11/04/2003	86 a	170 a	<0.50	<0.50	<0.50	<1.0	<0.50	74.37	23.44	50.93
MW-1	01/22/2004	<50	62 a	<0.50	<0.50	<0.50	<1.0	<0.50	74.37	18.30	56.07
MW-2	05/01/2003	NA	NA	NA	NA	NA	NA	NA	74.25	18.48	55.77
MW-2	05/13/2003	190	120 a	<0.50	<0.50	1.3	5.2	<0.50	74.25	18.71	55.54
MW-2	07/01/2003	<50	<50	<0.50	<0.50	<0.50	<1.0	<0.50	74.25	20.64	53.61
MW-2	11/04/2003	<50	<50	<0.50	<0.50	<0.50	<1.0	<0.50	74.25	23.16	51.09
MW-2	01/22/2004	200	97 a	<0.50	<0.50	6.1	2.4	<0.50	74.25	17.94	56.31
MW-3	05/01/2003	NA	NA	NA	NA	NA	NA	NA	73.63	18.00	55.63
MW-3	05/13/2003	6,100 a	160 a	<0.50	<0.50	<0.50	<1.0	<0.50	73.63	18.12	55.51
MW-3	07/01/2003	210	57 a	<0.50	<0.50	<0.50	<1.0	<0.50	73.63	20.00	53.63
MW-3	11/04/2003	4,200	630 a	<5.0	<5.0	8.7	10	<5.0	73.63	23.28	50.35
MW-3	01/22/2004	350 a	110 a	<0.50	<0.50	<0.50	<1.0	<0.50	73.63	17.60	56.03

WELL CONCENTRATIONS
Former Shell Service Station
2001 Fruitvale Avenue
Oakland, 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)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)
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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

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:

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

Site surveyed May 29, 2003, by Virgil Chavez Land Surveying of Vallejo, California.

Blaine Tech Services, Inc.

February 04, 2004

1680 Rogers Avenue
San Jose, CA 95112-1105
Attn.: Leon Gearhart
Project#: 040122-PC1
Project: 97109122
Site: 2001 Fruitvale Ave., Oakland

Dear Mr. Gearhart,

Attached is our report for your samples received on 01/23/2004 18:17

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 03/08/2004 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

Diesel (C10-C24)

Blaine Tech Services, Inc.

Attn.: Leon Gearhart

1680 Rogers Avenue

San Jose, CA 95112-1105

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

Project: 040122-PC1

97109122

Received: 01/23/2004 18:17

Site: 2001 Fruitvale Ave., Oakland

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
MW-1	01/22/2004 09:42	Water	1
MW-2	01/22/2004 09:10	Water	2
MW-3	01/22/2004 10:10	Water	3

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

01/30/2004 12:01

Diesel (C10-C24)

Blaine Tech Services, Inc.
Attn.: Leon Gearhart

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

Project: 040122-PC1
97109122

Received: 01/23/2004 18:17

Site: 2001 Fruitvale Ave., Oakland

Prep(s): 3511	Test(s): 8015M
Sample ID: MW-1	Lab ID: 2004-01-0659 - 1
Sampled: 01/22/2004 09:42	Extracted: 1/27/2004 05:24
Matrix: Water	QC Batch#: 2004/01/27-01.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	62	50	ug/L	1.00	01/29/2004 18:52	ldr
Surrogate(s) o-Terphenyl	136.3	50-150	%	1.00	01/29/2004 18:52	

Diesel (C10-C24)

Blaine Tech Services, Inc.

Attn.: Leon Gearhart

1680 Rogers Avenue

San Jose, CA 95112-1105

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

Project: 040122-PC1

97109122

Received: 01/23/2004 18:17

Site: 2001 Fruitvale Ave., Oakland

Prep(s): 3511	Test(s): 8015M
Sample ID: MW-2	Lab ID: 2004-01-0659 - 2
Sampled: 01/22/2004 09:10	Extracted: 1/27/2004 05:24
Matrix: Water	QC Batch#: 2004/01/27-01.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	97	50	ug/L	1.00	01/29/2004 18:24	edr
Surrogate(s)						
o-Terphenyl	124.1	50-150	%	1.00	01/29/2004 18:24	

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

01/30/2004 12:01

Diesel (C10-C24)

Blaine Tech Services, Inc.
Attn.: Leon Gearhart

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

Project: 040122-PC1
97109122

Received: 01/23/2004 18:17

Site: 2001 Fruitvale Ave., Oakland

Prep(s): 3511	Test(s): 8015M
Sample ID: MW-3	Lab ID: 2004-01-0659 - 3
Sampled: 01/22/2004 10:10	Extracted: 1/27/2004 05:24
Matrix: Water	QC Batch#: 2004/01/27-01.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	110	50	ug/L	1.00	01/29/2004 20:13	edr
<i>Surrogate(s)</i> o-Terphenyl	132.4	50-150	%	1.00	01/29/2004 20:13	

Diesel (C10-C24)

Blaine Tech Services, Inc.

Attn.: Leon Gearhart

1680 Rogers Avenue

San Jose, CA 95112-1105

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

Project: 040122-PC1

97109122

Received: 01/23/2004 18:17

Site: 2001 Fruitvale Ave., Oakland

Batch QC Report		
Prep(s): 3511		Test(s): 8015M
Method Blank	Water	QC Batch # 2004/01/27-01.10
MB: 2004/01/27-01.10-001		Date Extracted: 01/27/2004 05:24

Compound	Conc.	RL	Unit	Analyzed	Flag
Diesel	ND	50	ug/L	01/27/2004 11:15	
Surrogates(s) o-Terphenyl	142.4	50-150	%	01/27/2004 11:15	

Diesel (C10-C24)

Blaine Tech Services, Inc.

Attn.: Leon Gearhart

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

Project: 040122-PC1
97109122

Received: 01/23/2004 18:17

Site: 2001 Fruitvale Ave., Oakland

Batch QC Report										
Prep(s): 3511						Test(s): 8015M				
Laboratory Control Spike				Water			QC Batch # 2004/01/27-01.10			
LCS	2004/01/27-01.10-002			Extracted: 01/27/2004			Analyzed: 01/27/2004 10:21			
LCSD	2004/01/27-01.10-003			Extracted: 01/27/2004			Analyzed: 01/27/2004 10:48			
Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Diesel	430	418	680	63.2	61.5	2.7	60-150	25		
<i>Surrogates(s)</i> o-Terphenyl	1.53	1.55	1.25	122.5	123.8		50-150	0		

Diesel (C10-C24)

Blaine Tech Services, Inc.

Attn.: Leon Gearhart

1680 Rogers Avenue

San Jose, CA 95112-1105

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

Project: 040122-PC1

97109122

Received: 01/23/2004 18:17

Site: 2001 Fruitvale Ave., Oakland

Legend and Notes

Result Flag

edr

Hydrocarbon reported is in the early Diesel range, and does not match our Diesel standard

ldr

Hydrocarbon reported is in the late Diesel range, and does not match our Diesel standard

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: 040122-PC1
97109122

Received: 01/23/2004 18:17

Site: 2001 Fruitvale Ave., Oakland

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
MW-1	01/22/2004 09:42	Water	1
MW-2	01/22/2004 09:10	Water	2
MW-3	01/22/2004 10:10	Water	3

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

01/30/2004 16:29

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: 040122-PC1

97109122

Received: 01/23/2004 18:17

Site: 2001 Fruitvale Ave., Oakland

Prep(s):	5030B	Test(s):	8260B
Sample ID:	MW-1	Lab ID:	2004-01-0659 - 1
Sampled:	01/22/2004 09:42	Extracted:	1/30/2004 10:19
Matrix:	Water	QC Batch#:	2004/01/30-1B.65

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	01/30/2004 10:19	
Benzene	ND	0.50	ug/L	1.00	01/30/2004 10:19	
Toluene	ND	0.50	ug/L	1.00	01/30/2004 10:19	
Ethylbenzene	ND	0.50	ug/L	1.00	01/30/2004 10:19	
Total xylenes	ND	1.0	ug/L	1.00	01/30/2004 10:19	
Methyl tert-butyl ether (MTBE)	ND	0.50	ug/L	1.00	01/30/2004 10:19	
Surrogate(s)						
1,2-Dichloroethane-d4	103.9	76-130	%	1.00	01/30/2004 10:19	
Toluene-d8	102.6	78-115	%	1.00	01/30/2004 10:19	

Severn Trent Laboratories, Inc.

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01/30/2004 16:29

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: 040122-PC1

97109122

Received: 01/23/2004 18:17

Site: 2001 Fruitvale Ave., Oakland

Prep(s):	5030B	Test(s):	8260B
Sample ID:	MW-2	Lab ID:	2004-01-0659 - 2
Sampled:	01/22/2004 09:10	Extracted:	1/30/2004 10:43
Matrix:	Water	QC Batch#:	2004/01/30-1B.65

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	200	50	ug/L	1.00	01/30/2004 10:43	
Benzene	ND	0.50	ug/L	1.00	01/30/2004 10:43	
Toluene	ND	0.50	ug/L	1.00	01/30/2004 10:43	
Ethylbenzene	6.1	0.50	ug/L	1.00	01/30/2004 10:43	
Total xylenes	2.4	1.0	ug/L	1.00	01/30/2004 10:43	
Methyl tert-butyl ether (MTBE)	ND	0.50	ug/L	1.00	01/30/2004 10:43	
Surrogate(s)						
1,2-Dichloroethane-d4	103.8	76-130	%	1.00	01/30/2004 10:43	
Toluene-d8	99.6	78-115	%	1.00	01/30/2004 10:43	

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

01/30/2004 16:29

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: 040122-PC1

97109122

Received: 01/23/2004 18:17

Site: 2001 Fruitvale Ave., Oakland

Prep(s):	5030B	Test(s):	8260B
Sample ID:	MW-3	Lab ID:	2004-01-0659 - 3
Sampled:	01/22/2004 10:10	Extracted:	1/30/2004 11:06
Matrix:	Water	QC Batch#:	2004/01/30-1B.65

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	350	50	ug/L	1.00	01/30/2004 11:06	g
Benzene	ND	0.50	ug/L	1.00	01/30/2004 11:06	
Toluene	ND	0.50	ug/L	1.00	01/30/2004 11:06	
Ethylbenzene	ND	0.50	ug/L	1.00	01/30/2004 11:06	
Total xylenes	ND	1.0	ug/L	1.00	01/30/2004 11:06	
Methyl tert-butyl ether (MTBE)	ND	0.50	ug/L	1.00	01/30/2004 11:06	
Surrogate(s)						
1,2-Dichloroethane-d4	97.6	76-130	%	1.00	01/30/2004 11:06	
Toluene-d8	105.7	78-115	%	1.00	01/30/2004 11:06	

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

01/30/2004 16:29

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: 040122-PC1

97109122

Received: 01/23/2004 18:17

Site: 2001 Fruitvale Ave., Oakland

Batch QC Report					
Prep(s): 5030B			Test(s): 8260B		
Method Blank			Water		
MB: 2004/01/30-1B.65-029			QC Batch # 2004/01/30-1B.65		
			Date Extracted: 01/30/2004 09:29		
Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	01/30/2004 09:29	
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	01/30/2004 09:29	
Benzene	ND	0.5	ug/L	01/30/2004 09:29	
Toluene	ND	0.5	ug/L	01/30/2004 09:29	
Ethylbenzene	ND	0.5	ug/L	01/30/2004 09:29	
Total xylenes	ND	1.0	ug/L	01/30/2004 09:29	
Surrogates(s)					
1,2-Dichloroethane-d4	97.8	76-130	%	01/30/2004 09:29	
Toluene-d8	104.2	78-115	%	01/30/2004 09:29	

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

01/30/2004 16:29

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: 040122-PC1
97109122

Received: 01/23/2004 18:17

Site: 2001 Fruitvale Ave., Oakland

Batch QC Report										
Prep(s): 5030B						Test(s): 8260B				
Laboratory Control Spike			Water			QC Batch # 2004/01/30-1B.65				
LCS	2004/01/30-1B.65-001		Extracted: 01/30/2004			Analyzed: 01/30/2004 08:01				
LCSD	2004/01/30-1B.65-026		Extracted: 01/30/2004			Analyzed: 01/30/2004 08:26				
Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Methyl tert-butyl ether (MTBE)	32.0	28.6	25	128.0	114.4	11.2	65-165	20		
Benzene	25.6	24.2	25	102.4	96.8	5.6	69-129	20		
Toluene	27.8	25.7	25	111.2	102.8	7.9	70-130	20		
Surrogates(s)										
1,2-Dichloroethane-d4	550	510	500	110.0	102.0		76-130			
Toluene-d8	548	492	500	109.6	98.4		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

01/30/2004 16:29

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: 040122-PC1

97109122

Received: 01/23/2004 18:17

Site: 2001 Fruitvale Ave., Oakland

Legend and Notes

Result Flag

g

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

LAB: STL

SHELL Chain Of Custody Record

82326

Lab Identification (if necessary):

Address:

City, State, Zip:

Shell Project Manager to be invoiced:

- SCIENCE & ENGINEERING
- TECHNICAL SERVICES
- CRMT HOUSTON

Karen Petryna

2004-01-0659

INCIDENT NUMBER (SAE ONLY)

9 7 1 0 9 1 2 2

SAP OF CRMT NUMBER (TS/CRMT)

DATE: 1/22/04

PAGE: 1 of 1

Blaine Tech Services <small>ADDRESS:</small> 1680 Rogers Avenue, San Jose, CA 95112 <small>CONTACT PERSON/PHONE/FAX/EMAIL:</small> Leon Gearhart 408-573-0565 408-573-7771 lgearhart@blainetech.com		<small>LABS CODE:</small> BTSS	<small>SITE ADDRESS (Street and City):</small> 2001 Fruitvale Ave., Oakland	<small>SUBSAL ID NO.:</small> T0600102236
<small>EDF DELIVERABLE TO (Manufacturer FMS or Designer):</small> Anni Kroml		<small>PHONE NO.:</small> 510-420-3335	<small>EMAIL:</small> ShellOaklandEDF@cambridge-env.com	<small>CLIENT/TASK PROJECT NO.:</small> 040122-PC1
<small>SAMPLER NAME(S) (NEH):</small> P. Lovvish		<small>LAB USE ONLY</small>		

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

LA - RYNOB REPORT FORMAT LIST AGENCY

GCMS MTBE CONFIRMATION: HIGHEST _____ HIGHEST per BORING _____ ALL _____

SPECIAL INSTRUCTIONS OR NOTES: CHECK BOX IF EOD IS NOT NEEDED:

REQUESTED ANALYSIS

LAB USE ONLY	Field Sample Identification	SAMPLING		MATRIX	NO. OF CONT.	TPH - Gas, Purgeable	BTEX	MTBE (#021B - 5ppb RL)	MTBE (#250B - 0.5ppb RL)	Oxygenates (5) by (#260B)	Ethanol (#260B)	Methanol	1,2-DCA (#260B)	EDB (#260B)	TPH - Diesel, Extractable (#015m)	FIELD NOTES: Container/Preservative or PID Readings or Laboratory Notes
		DATE	TIME													
	MW-1	1/22/04	942	W	6	X	X	X							X	3.1°C TEMPERATURE ON RECEIPT °C
	MW-2	↓	910	↓	6	X	X	X							X	
	MW-3	↓	1010	↓	6	X	X	X							X	

Released by (Signature): <i>[Signature]</i>	Received by (Signature): <i>[Signature]</i>	Date: 1/22/04	Time: 1420
Retransferred by (Signature): <i>[Signature]</i>	Received by (Signature): <i>[Signature]</i>	Date: 1/23/04	Time: 1817
Redequested by (Signature): <i>[Signature]</i>	Received by (Signature): <i>[Signature]</i>	Date: 1-23-04	Time: 1817

SHELL WELL MONITORING DATA SHEET

BTS #: 040122-PC	Site: 2001 Fruitvale Ave., Oakland
Sampler: PC	Date: 1/22/04
Well I.D.: MW-1	Well Diameter: 2 3 <input checked="" type="radio"/> 6 8
Total Well Depth (TD): 29.75	Depth to Water (DTW): 18.30
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVO Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 20.59	

Purge Method: Bailer Watera Sampling Method: Bailer
 Disposable Bailer Peristaltic Disposable Bailer
 Positive Air Displacement Extraction Pump Extraction Port
 Electric Submersible Other: 2" Reel Flo Dedicated Tubing

Other: _____

$\frac{7.4 \text{ (Gals.)} \times 3}{1 \text{ Case Volume}} = 23.2 \text{ Gals. Calculated Volume}$	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Well Diameter</th> <th>Multiplier</th> <th>Well Diameter</th> <th>Multiplier</th> </tr> </thead> <tbody> <tr> <td>1"</td> <td>0.04</td> <td>4"</td> <td>0.65</td> </tr> <tr> <td>2"</td> <td>0.16</td> <td>6"</td> <td>1.47</td> </tr> <tr> <td>3"</td> <td>0.37</td> <td>Other</td> <td>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
934	64.4	6.8	500	65	7.5	clear
935	66.8	6.7	494	70	15	↓
937	67.4	6.7	492	53	22.5	

Did well dewater? Yes Gallons actually evacuated: 23

Sampling Date: 1/22/04 Sampling Time: 942 Depth to Water: 1891

Sample I.D.: MW-1 Laboratory: STD Other: _____

Analyzed for: ~~TPH-G BTEX MTBE TPH-B~~ Other: _____

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

Analyzed for: ~~TPH-G~~ (BTEX MTBE TPH-DK) 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

