

20305



Shell Oil Products US

June 25, 2004

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

Alameda County
JUN 30 2004
Environmental Health

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

Dear Mr. Gholami:

Attached for your review and comment is a copy of the *Second 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

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

Karen Petryna
Sr. Environmental Engineer

June 25, 2004

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

Re: **Second Quarter 2004 Monitoring Report and Case Closure Request**
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.

SECOND 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 north-northeasterly 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 THIRD QUARTER 2004 ACTIVITIES

Groundwater Monitoring Frequency Reduction: Cambria requested in the *First Quarter 2004 Monitoring Report* to reduce groundwater monitoring frequency to annual, to be conducted during the first quarter of each year. Since more than 60 days have passed without a response to this request, Cambria will, as stated, implement this change. The next sampling event is scheduled for first quarter 2005. At that time, Blaine will gauge and sample all wells and tabulate the data. Cambria will prepare a monitoring report.



Case Closure Request: Groundwater monitoring has now been conducted for five 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 discussed in our July 29, 2003 *Second Quarter 2003 Monitoring Report*, Cambria recommends no further investigation and hereby requests case closure. Cambria will contact you after submittal of this report to discuss proceeding with case closure.

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

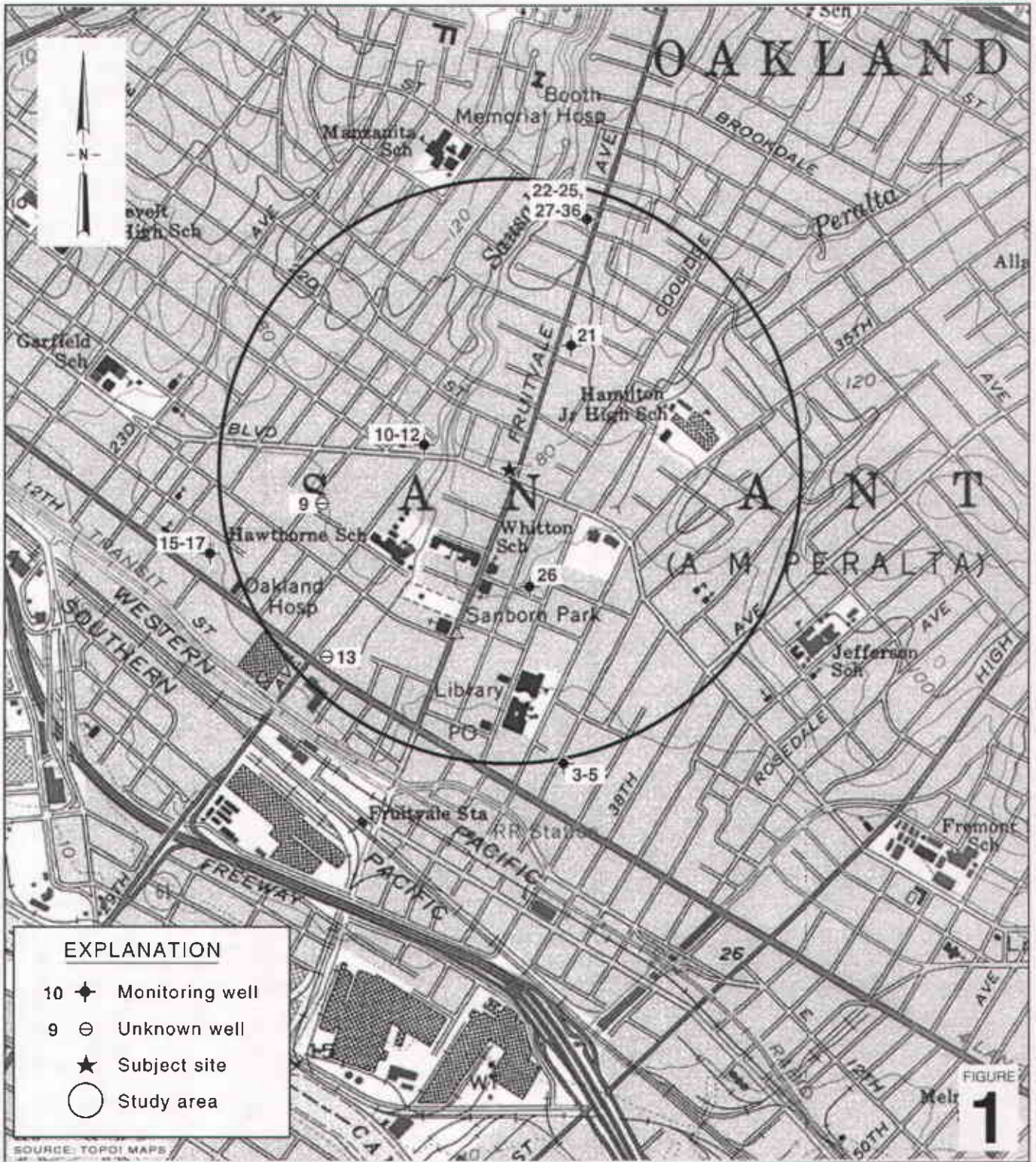


- Figures: 1 - Vicinity/Area Well Survey Map
 2 - Groundwater Elevation Contour Map

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

ATTACHMENT A
Blaine Groundwater Monitoring Report
and Field Notes



G:\OAKLAND 2001 FRUITFIGURES\VICWELL-SURVEY.A1

SOURCE: TOPOI MAPS

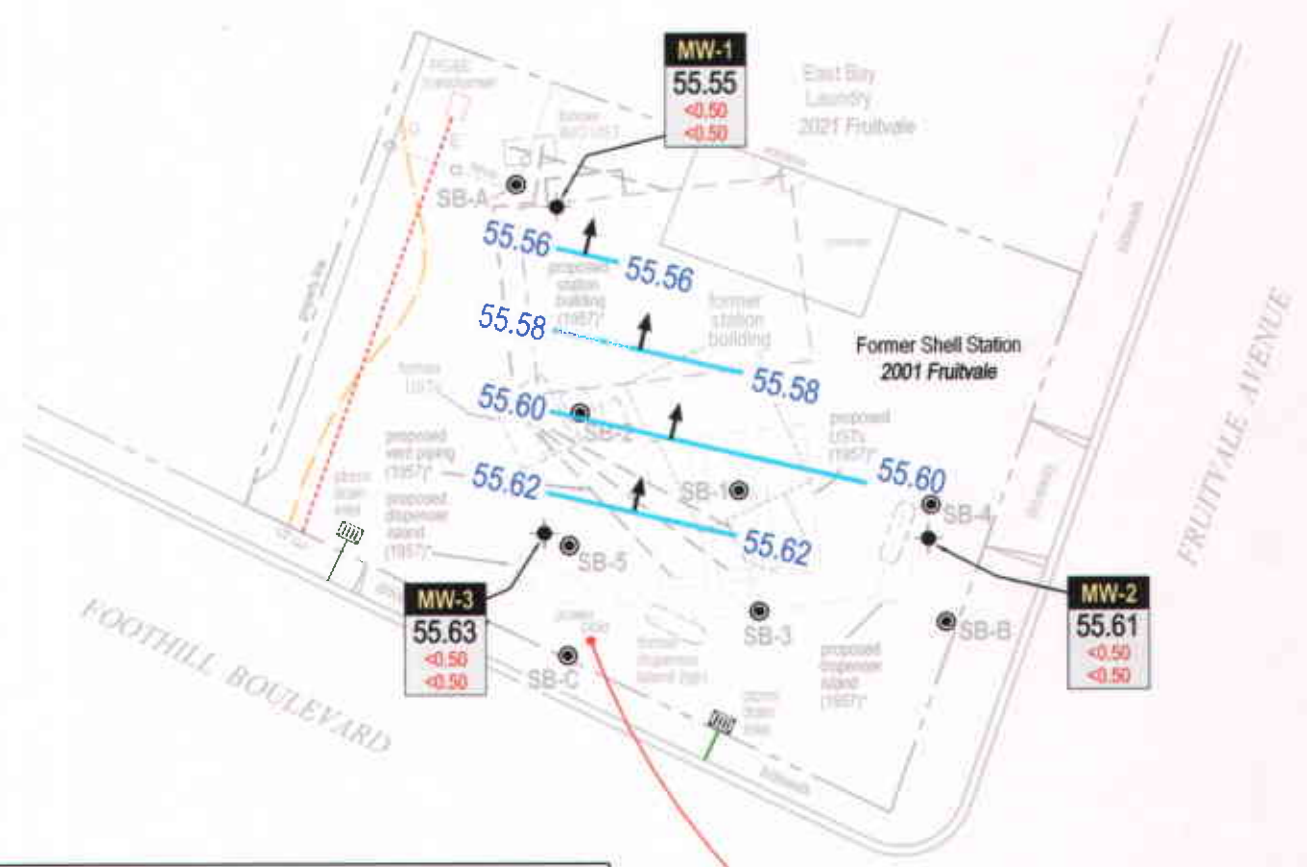
Former Shell Service Station
 201 Fruitvale Avenue
 Oakland, California
 Incident #97109122



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 (AllCal, 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.

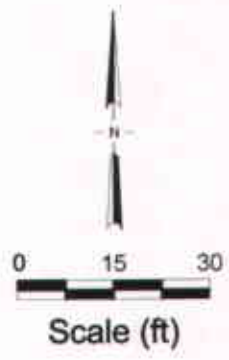


FIGURE
2

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



**Groundwater Elevation
 Contour Map**

April 1, 2004

G:\OAKLAND\2001FRUITVALE\FIGURE2\0304.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

May 4, 2004

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

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

Monitoring performed April 1, 2004

Groundwater Monitoring Report 040401-BA-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/mrb

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-1	04/01/2004	69 a	<50	<0.50	<0.50	<0.50	<1.0	<0.50	74.37	18.82	55.55
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-2	04/01/2004	150	100 a	<0.50	<0.50	3.9	1.9	<0.50	74.25	18.64	55.61
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
MW-3	04/01/2004	150	<50	<0.50	<0.50	<0.50	<1.0	<0.50	73.63	18.00	55.63

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.

April 15, 2004

1680 Rogers Avenue
San Jose, CA 95112-1105
Attn.: Leon Gearhart
Project#: 040401-BA1
Project: 97109122
Site: 2001 Fruitvale Ave., Oakland

Dear Mr. Gearhart,

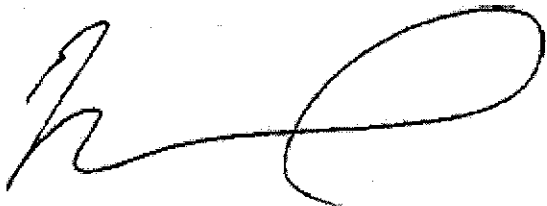
Attached is our report for your samples received on 04/02/2004 13:59
This report has been reviewed and approved for release. Reproduction of this report
is permitted only in its entirety.

Please note that any unused portion of the samples will be discarded after
05/17/2004 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 (C9-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: 040401-BA1

97109122

Received: 04/02/2004 13:59

Site: 2001 Fruitvale Ave., Oakland

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
MW-1	04/01/2004 09:10	Water	1
MW-2	04/01/2004 09:32	Water	2
MW-3	04/01/2004 09:52	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

04/15/2004 15:10

Diesel (C9-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: 040401-BA1

97109122

Received: 04/02/2004 13:59

Site: 2001 Fruitvale Ave., Oakland

Prep(s): 3511	Test(s): 8015M
Sample ID: MW-1	Lab ID: 2004-04-0094 - 1
Sampled: 04/01/2004 09:10	Extracted: 4/5/2004 12:58
Matrix: Water	QC Batch#: 2004/04/05-04.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	ND	50	ug/L	1.00	04/08/2004 10:32	
Surrogate(s)						
o-Terphenyl	132.2	50-150	%	1.00	04/08/2004 10:32	

Diesel (C9-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: 040401-BA1

97109122

Received: 04/02/2004 13:59

Site: 2001 Fruitvale Ave., Oakland

Prep(s): 3511	Test(s): 8015M
Sample ID: MW-2	Lab ID: 2004-04-0094 - 2
Sampled: 04/01/2004 09:32	Extracted: 4/5/2004 12:58
Matrix: Water	QC Batch#: 2004/04/05 04:10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	100	50	ug/L	1.00	04/06/2004 17:09	edr
Surrogate(s) o-Terphenyl	141.5	50-150	%	1.00	04/06/2004 17:09	

Diesel (C9-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: 040401-BA1
97109122

Received: 04/02/2004 13:59

Site: 2001 Fruitvale Ave., Oakland

Prep(s): 3511	Test(s): 8015M
Sample ID: MW-3	Lab ID: 2004-04-0094 - 3
Sampled: 04/01/2004 09:52	Extracted: 4/5/2004 12:58
Matrix: Water	QC Batch#: 2004/04/05-04.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	ND	50	ug/L	1.00	04/08/2004 10:32	
Surrogate(s) o-Terphenyl	136.9	50-150	%	1.00	04/08/2004 10:32	

Diesel (C9-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: 040401-BA1
97109122

Received: 04/02/2004 13:59

Site: 2001 Fruitvale Ave., Oakland

Batch QC Report					
Prep(s): 3511				Test(s): 8015M	
Method Blank		Water		QC Batch # 2004/04/05-04.10	
MB: 2004/04/05-04.10-001				Date Extracted: 04/05/2004 12:58	

Compound	Conc.	RL	Unit	Analyzed	Flag
Diesel	ND	50	ug/L	04/06/2004 10:22	
Surrogates(s) o-Terphenyl	135.0	50-150	%	04/06/2004 10:22	

Diesel (C9-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: 040401-BA1
97109122

Received: 04/02/2004 13:59

Site: 2001 Fruitvale Ave., Oakland

Batch QC Report										
Prep(s): 3511					Test(s): 8015M					
Laboratory Control Spike			Water			QC Batch # 2004/04/05-04.10				
LCS	2004/04/05-04.10-002		Extracted: 04/05/2004			Analyzed: 04/06/2004 10:49				
LCSD	2004/04/05-04.10-003		Extracted: 04/05/2004			Analyzed: 04/06/2004 12:10				
Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrf.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Diesel	460	486	680	67.6	71.5	5.6	60-150	25		
Surrogates(s) o-Terphenyl	1.63	1.63	1.25	130.4	130.6		50-150	0		

Diesel (C9-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: 040401-BA1

97109122

Received: 04/02/2004 13:59

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

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: 040401-BA1

97109122

Received: 04/02/2004 13:59

Site: 2001 Fruitvale Ave., Oakland

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
MW-1	04/01/2004 09:10	Water	1
MW-2	04/01/2004 09:32	Water	2
MW-3	04/01/2004 09:52	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

04/14/2004 12:50

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: 040401-BA1
97109122

Received: 04/02/2004 13:59

Site: 2001 Fruitvale Ave., Oakland

Prep(s):	5030B	Test(s):	8260B
Sample ID:	MW-1	Lab ID:	2004-04-0094 - 1
Sampled:	04/01/2004 09:10	Extracted:	4/8/2004 21:36
Matrix:	Water	QC Batch#:	2004/04/08-2G.64

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	69	50	ug/L	1.00	04/08/2004 21:36	g
Benzene	ND	0.50	ug/L	1.00	04/08/2004 21:36	
Toluene	ND	0.50	ug/L	1.00	04/08/2004 21:36	
Ethylbenzene	ND	0.50	ug/L	1.00	04/08/2004 21:36	
Total xylenes	ND	1.0	ug/L	1.00	04/08/2004 21:36	
Methyl tert-butyl ether (MTBE)	ND	0.50	ug/L	1.00	04/08/2004 21:36	
Surrogate(s)						
1,2-Dichloroethane-d4	100.7	76-130	%	1.00	04/08/2004 21:36	
Toluene-d8	93.9	78-115	%	1.00	04/08/2004 21:36	

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: 040401-BA1

97109122

Received: 04/02/2004 13:59

Site: 2001 Fruitvale Ave., Oakland

Prep(s):	5030B	Test(s):	8260B
Sample ID:	MW-2	Lab ID:	2004-04-0094 - 2
Sampled:	04/01/2004 09:32	Extracted:	4/8/2004 22:43
Matrix:	Water	QC Batch#:	2004/04/08-2C 64

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	150	50	ug/L	1.00	04/08/2004 22:43	
Benzene	ND	0.50	ug/L	1.00	04/08/2004 22:43	
Toluene	ND	0.50	ug/L	1.00	04/08/2004 22:43	
Ethylbenzene	3.9	0.50	ug/L	1.00	04/08/2004 22:43	
Total xylenes	1.9	1.0	ug/L	1.00	04/08/2004 22:43	
Methyl tert-butyl ether (MTBE)	ND	0.50	ug/L	1.00	04/08/2004 22:43	
Surrogate(s)						
1,2-Dichloroethane-d4	95.1	76-130	%	1.00	04/08/2004 22:43	
Toluene-d8	93.4	78-115	%	1.00	04/08/2004 22:43	

Gas/BTEX/MTBE by 8260B (C6-C12)

Blaine Tech Services, Inc.

Attn.: Leon Gearhart

1680 Rogers Avenue

San Jose, CA 95112-1105

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

Project: 040401-BA1

97109122

Received: 04/02/2004 13:59

Site: 2001 Fruitvale Ave., Oakland

Prep(s):	5030B	Test(s):	8260B
Sample ID:	MW-3	Lab ID:	2004-04-0094 - 3
Sampled:	04/01/2004 09:52	Extracted:	4/8/2004 23:05
Matrix:	Water	QC Batch#:	2004/04/08-2C.64

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	150	50	ug/L	1.00	04/08/2004 23:05	
Benzene	ND	0.50	ug/L	1.00	04/08/2004 23:05	
Toluene	ND	0.50	ug/L	1.00	04/08/2004 23:05	
Ethylbenzene	ND	0.50	ug/L	1.00	04/08/2004 23:05	
Total xylenes	ND	1.0	ug/L	1.00	04/08/2004 23:05	
Methyl tert-butyl ether (MTBE)	ND	0.50	ug/L	1.00	04/08/2004 23:05	
Surrogate(s)						
1,2-Dichloroethane-d4	99.9	76-130	%	1.00	04/08/2004 23:05	
Toluene-d8	89.8	78-115	%	1.00	04/08/2004 23:05	

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: 040401-BA1
97109122

Received: 04/02/2004 13:59

Site: 2001 Fruitvale Ave., Oakland

Batch QC Report		
Prep(s): 5030B		Test(s): 8260B
Method Blank	Water	QC Batch # 2004/04/08-2C.64
MB: 2004/04/08-2C.64-000		Date Extracted: 04/08/2004 19:00

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	04/08/2004 19:00	
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	04/08/2004 19:00	
Benzene	ND	0.5	ug/L	04/08/2004 19:00	
Toluene	ND	0.5	ug/L	04/08/2004 19:00	
Ethylbenzene	ND	0.5	ug/L	04/08/2004 19:00	
Total xylenes	ND	1.0	ug/L	04/08/2004 19:00	
Surrogates(s)					
1,2-Dichloroethane-d4	89.4	76-130	%	04/08/2004 19:00	
Toluene-d8	92.2	78-115	%	04/08/2004 19:00	

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: 040401-BA1
97109122

Received: 04/02/2004 13:59

Site: 2001 Fruitvale Ave., Oakland

Batch QC Report										
Prep(s): 5030B							Test(s): 8260B			
Laboratory Control Spike				Water			QC Batch # 2004/04/08-2C-64			
LCS	2004/04/08-2C-64-046			Extracted: 04/08/2004			Analyzed: 04/08/2004 17:46			
LCSD	2004/04/08-2C-64-008			Extracted: 04/08/2004			Analyzed: 04/08/2004 18:08			
Compound	Conc. ug/L		Exp. Conc.	Recovery %		RPD	Ctrl. Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Methyl tert-butyl ether (MTBE)	22.3	20.4	25	89.2	81.6	8.9	65-165	20		
Benzene	23.0	21.5	25	92.0	86.0	6.7	69-129	20		
Toluene	23.1	21.7	25	92.4	86.8	6.3	70-130	20		
Surrogates(s)										
1,2-Dichloroethane-d4	457	459	500	91.4	91.8		76-130			
Toluene-d8	447	481	500	89.4	96.2		78-115			

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: 040401-BA1

97109122

Received: 04/02/2004 13:59

Site: 2001 Fruitvale Ave., Oakland

Batch QC Report			
Prep(s):	5030B		Test(s): 8260B
Matrix Spike (MS / MSD)		Water	QC Batch # 2004/04/08-2C.64
MW-1 >> MS			Lab ID: 2004-04-0094 - 001
MS: 2004/04/08-2C.64-058		Extracted: 04/08/2004	Analyzed: 04/08/2004 21:58
			Dilution: 1.00
MSD: 2004/04/08-2C.64-020		Extracted: 04/08/2004	Analyzed: 04/08/2004 22:20
			Dilution: 1.00

Compound	Conc. ug/L			Spk.Level ug/L	Recovery %			Limits %		Flags	
	MS	MSD	Sample		MS	MSD	RPD	Rec.	RPD	MS	MSD
Benzene	28.1	28.4	ND	25	112.4	113.6	1.1	69-129	20		
Toluene	26.9	28.0	ND	25	107.6	112.0	4.0	70-130	20		
Methyl tert-butyl ether	28.6	29.3	ND	25	114.4	117.2	2.4	65-165	20		
Surrogate(s)											
1,2-Dichloroethane-d4	515	521		500	103.0	104.2		76-130			
Toluene-d8	474	473		500	94.8	94.6		78-115			

Gas/BTEX/MTBE by 8260B (C6-C12)

Blaine Tech Services, Inc.

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Project: 040401-BA1

97109122

Received: 04/02/2004 13:59

Site: 2001 Fruitvale Ave., Oakland

Legend and Notes

Result Flag

g

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

Lab Identification (if necessary):

Address:

City, State, Zip:

Shell Project Manager to be invoiced:

SCIENCE & ENGINEERING
 TECHNICAL SERVICES
 CRIME HODSTON

Karen Petryna

2004-04-0094

INCIDENT NUMBER (S&E ONLY)

9 7 1 0 9 1 2 2

SAP or CRMT NUMBER (TS/CRMT)

DATE: 4/1/04

PAGE: 1 of 1

Blaino Tech Services
 ADDRESS: 1680 Rogers Avenue, San Jose, CA 95112
 PROJECT CONTACT (Name/Title/Phone/Fax): Leon Gearhart, 408-573-0555, 408-573-7771, lgearhart@blainotech.com
 DCO CODE: BTSS
 SITE ADDRESS (Street and City): 2001 Fruitvale Ave., Oakland
 GLOBAL ID NO.: T0600102236
 EDI DELIVERABLE TO (Responsible Party in Detail): Anni Kreml, 510-420-3335
 EMAIL: ShellOaklandEDF@cambrila-env.com
 CONSULTANT PROJECT NO.: 040401-3A1
 CONTRACT NO.: BTS #

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

LA - RWQIS REPORT FORMAT LST AGENCY:
 GCMS MTRC CONFIRMATION: HIGHEST _____ HIGHEST per BORING _____ ALL _____
 SPECIAL INSTRUCTIONS OR NOTES: CHECK BOX IF EDD IS NOT NEEDED

REQUESTED ANALYSIS

TPH - Gas, Purgeable	BTEX	MTBE (8021E - 5ppb RL)	MTBE (8260E - 0.5ppb RL)	Oxygenates (S) by (8260B)	Ethanol (8260B)	Methanol	1,2-DCA (8260E)	EDB (8260B)	TPH - Diesel, Extractable (8015m)
X	X	X							X
X	X	X							X
X	X	X							X

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

B.P.C

TEMPERATURE ON RECEIPT C°

Released by (Signature):	Received by (Signature):	Date: 4/2/04	Time: 1359
Released by (Signature):	Received by (Signature):	Date: 4/2/04	Time: 1723

WELL GAUGING DATA

Project # 040401-BA1 Date 4/1/04 Client Shell

Site 2001 Fruitvale Ave., Oakland

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	4					18.82	29.65	TOC
MW-2	4					18.64	30.25	
MW-3	4					18.00	29.74	→

SHELL WELL MONITORING DATA SHEET

BTS #: 040401-3A1	Site: 2001 Fruitvale Ave., Oakland
Sampler: Brian Alcorn	Date: 4/1/04
Well I.D.: MW-1	Well Diameter: 2 3 4 6 8
Total Well Depth (TD): 29.65	Depth to Water (DTW): 18.82
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 20.98	

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

Other: _____

7.1 (Gals.) X 3 = 21.3 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
0903	67.6	6.3	591	81	7.1	clear, mild black odor, debris
0905	67.2	6.3	490	52	14.2	clear, no odor, no debris
0907	67.0	6.5	478	35	21.3	" " "

Did well dewater? Yes **No** Gallons actually evacuated: 21.3

Sampling Date: 4/1/04 Sampling Time: 0910 Depth to Water: 19.70

Sample I.D.: MW-1 Laboratory: **STL** Other _____

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

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

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

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

SHELL WELL MONITORING DATA SHEET

BTS #: 040401-BA1	Site: 2001 Fruitvale Ave., Oakland
Sampler: Brian Alcorn	Date: 4/1/04
Well I.D.: MW-2	Well Diameter: 2 3 (4) 6 8
Total Well Depth (TD): 30.25	Depth to Water (DTW): 18.64
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 20.96	

Purge Method: Bailer Disposable Bailer Positive Air Displacement Electric Submersible	Waterra Peristaltic Extraction Pump Other _____	Sampling Method: (Bailer) Disposable Bailer Extraction Port Dedicated Tubing Other: _____
--	--	---

$\frac{7.6 \text{ (Gals.)} \times 3}{\text{Specified Volumes}} = \frac{22.8}{\text{Calculated Volume}} \text{ Gals.}$	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Well Diameter</th> <th>Multiplier</th> <th>Well Diameter</th> <th>Multiplier</th> </tr> </thead> <tbody> <tr> <td>1"</td> <td>0.04</td> <td>4"</td> <td>0.65</td> </tr> <tr> <td>2"</td> <td>0.16</td> <td>6"</td> <td>1.47</td> </tr> <tr> <td>3"</td> <td>0.37</td> <td>Other</td> <td>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 µS)	Turbidity (NTUs)	Gals. Removed	Observations
0925	65.9	6.6	471	66	7.6	clear, mild odor
0927	66.9	6.6	470	44	15.2	" "
0929	67.2	6.7	471	44	22.8	" "

Did well dewater? Yes No Gallons actually evacuated: 22.8

Sampling Date: 4/1/04 Sampling Time: 0932 Depth to Water: 19.47

Sample I.D.: MW-2 Laboratory: (STL) Other _____

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

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

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

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

SHELL WELL MONITORING DATA SHEET

3TS #: 040401-BA1	Site: 2001 Fruitvale Ave., Oakland
Sampler: Brian Alcorn	Date: 4/1/04
Well I.D.: MW-3	Well Diameter: 2 3 <u>4</u> 6 8
Total Well Depth (TD): 29.74	Depth to Water (DTW): 18.00
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]: 20.34	

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

Other: _____

<u>7.7</u> (Gals.) X	<u>3</u>	=	<u>23.1</u> 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 <u>µS</u>)	Turbidity (NTUs)	Gals. Removed	Observations
0945	66.4	<u>6.7</u>	477	71	7.7	clear, mild odor
0947	66.9	6.7	476	32	15.4	" "
0949	66.9	6.7	476	25	23.1	" "

Did well dewater? Yes No Gallons actually evacuated: 23.1

Sampling Date: 4/1/04 Sampling Time: 0952 Depth to Water: 18.72

Sample I.D.: MW-3 Laboratory: STL Other _____

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

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

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

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

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