[redacted]

Shell Oil Products US

G

October 14, 2005

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

Alameda County
OCT 18 2005
Environmental Health

Subject: Former Shell Service Station
2001 Fruitvale Avenue
Oakland, California
SAP Code 117941

Dear Mr. Wickham:

Attached for your review and comment is a copy of the *Groundwater Monitoring Report – Third Quarter 2005* 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 (707) 865-0251 with any questions or concerns.

Sincerely,

Shell Oil Products US

Denis L. Brown
Project Manager

20945 S. Wilmington Ave., Carson, CA 90810 Phone (707) 865-0251 Facsimile (707) 865-2542

CAMBRIA

October 14, 2005

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

Re: Groundwater Monitoring Report - Third Quarter 2005
And Agency Response
Former Shell Service Station
2001 Fruitvale Avenue
Oakland, California
SAP Code 117941
Incident No. 97109122

Dear Mr. Wickham:

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, and to respond to Alameda County Environmental Health's (ACEH) technical comments presented in correspondence dated July 13, 2005.

THIRD QUARTER 2005 ACTIVITIES

Blaine Tech Services, Inc. (Blaine) of San Jose, California gauged and sampled all site wells on July 8, 2005, 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 contour/chemical concentration map (Figure 2). Blaine's report, including the analytical laboratory report and supporting field documents, is presented as Attachment A.

The groundwater flowed in a north-northeasterly direction at an approximate gradient of 0.007. No free product was observed in groundwater. Total Petroleum hydrocarbons as gasoline (TPHg) was detected only in well MW-3 at 350 parts per billion (ppb). All other results during this sampling event were below the detection limits.

ANTICIPATED FOURTH QUARTER ACTIVITIES

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

Cambria Environmental Technology, Inc.

270 Perkins Street
Sonoma, CA 95476
Tel (707) 935-4850
Fax (707) 935-6649

RESPONSE TO AGENCY TECHNICAL COMMENTS

In response to previous requests for closure consideration, ACEH provided technical comments with questions in correspondence dated July 13, 2005. Responses to each of the technical comments are as follows:

1. First Quarter 2005 Results for Well MW-2. To address the increase of TPHg concentration observed in well MW-2 during the first quarter sample event (from 150 parts per billion [ppb] in April 2004 to 1,600 ppb in January 2005), Cambria scheduled a monitoring event of all three wells. The monitoring event was performed on July 8, 2005 and the results are presented above, with Blaine's report included in Appendix A. Cambria also scheduled a monthly event to re-sample just MW-2. This event occurred on August 2, 2005. Blaine's report of the special sample event is included in Appendix B. The results of the July event (<50 ppb) (Appendix A) and the August event (75 ppb) (Appendix B) indicate that the first quarter 2005 result (1,600 ppb) is anomalous, and likely does not represent an increase due to historic operations of the former fuel station.

2. Groundwater Flow Directions. The July 13, 2005 letter from ACEH requested the preparation of a Rose Diagram and inclusion on the groundwater elevation contour map. Based on the seven monitoring events, a rose diagram was prepared and is presented on Figure 2, herein. The groundwater gradient at this site has varied almost 180 degrees from southwest, to west, to northwest, to north, to north-northeast. The gradient was to the north-northeast on two events, which is depicted on the rose diagram as the 'predominant' flow direction. It should be noted that this site is located in a relatively flat area, resulting in a relatively flat hydraulic gradient (0.007 ft/ft). Topography slopes gently to the south, toward the harbor and San Francisco Bay, thus, groundwater flow would be expected to be toward the south. Tidal canals and sloughs are located near the site and it is possible that the range in flow directions is a result of tidal influence on the groundwater.

3. Former Waste Oil Tank. The location of monitoring well MW-1 is within 10 feet of the previous boring, SBA, and given the relatively flat gradient at this site, groundwater data from MW-1 may be representative of that area. However, as discussed above, the flow directions that have been calculated for this site range from the southwest, to west, to northwest, to north, to north-northeast. Both SBA and MW-1 are positioned to the south and southeast of the former waste oil tank, and thus are not downgradient.

4. **Groundwater Monitoring.** Cambria has implemented the ACEH's requested modifications to the monitoring program at this site.

- Two additional sample events of MW-2 for TPH have occurred, and suggest that the elevated result from the first quarter of 2005 was anomalous. The well will be sampled again during the fourth quarter 2005.
- The third quarter sample event occurred prior to receipt of ACEH's letter. However, the special sample event conducted on August 2, 2005 of MW-2 included analysis of the five fuel oxygenates. The laboratory results are included in Appendix B and indicate no oxygenates present in water from MW-2 at various detection limits. The fourth quarter 2005 monitoring event will include all of the parameters requested by ACEH.
- On August 31, 2005, another special sample event was performed. A sample from MW-1 was submitted for chlorinated solvents analyses by EPA Methods 8021B/8260B. Blaine's report and the laboratory reports are also included in Appendix B. All of the constituents were below the laboratory detection limits except for 0.62 parts per billion (ppb) of trichloroethene and 36 ppb of tetrachloroethene. These concentrations are below the City of Oakland's Tier 1 Risk Based Screening Levels and below the San Francisco Bay Regional Water Quality Control Boards Environmental Screening Levels where groundwater is not a current or potential source of drinking water. The fourth quarter sample event will again include these parameters.

CLOSING

We appreciate the opportunity to work with you on this project. Please call Ana Friel at (707) 268-3812, if you have any questions or comments.

Sincerely,

Cambria Environmental Technology, Inc

Ana Friel
Senior Project Geologist
PG 6452

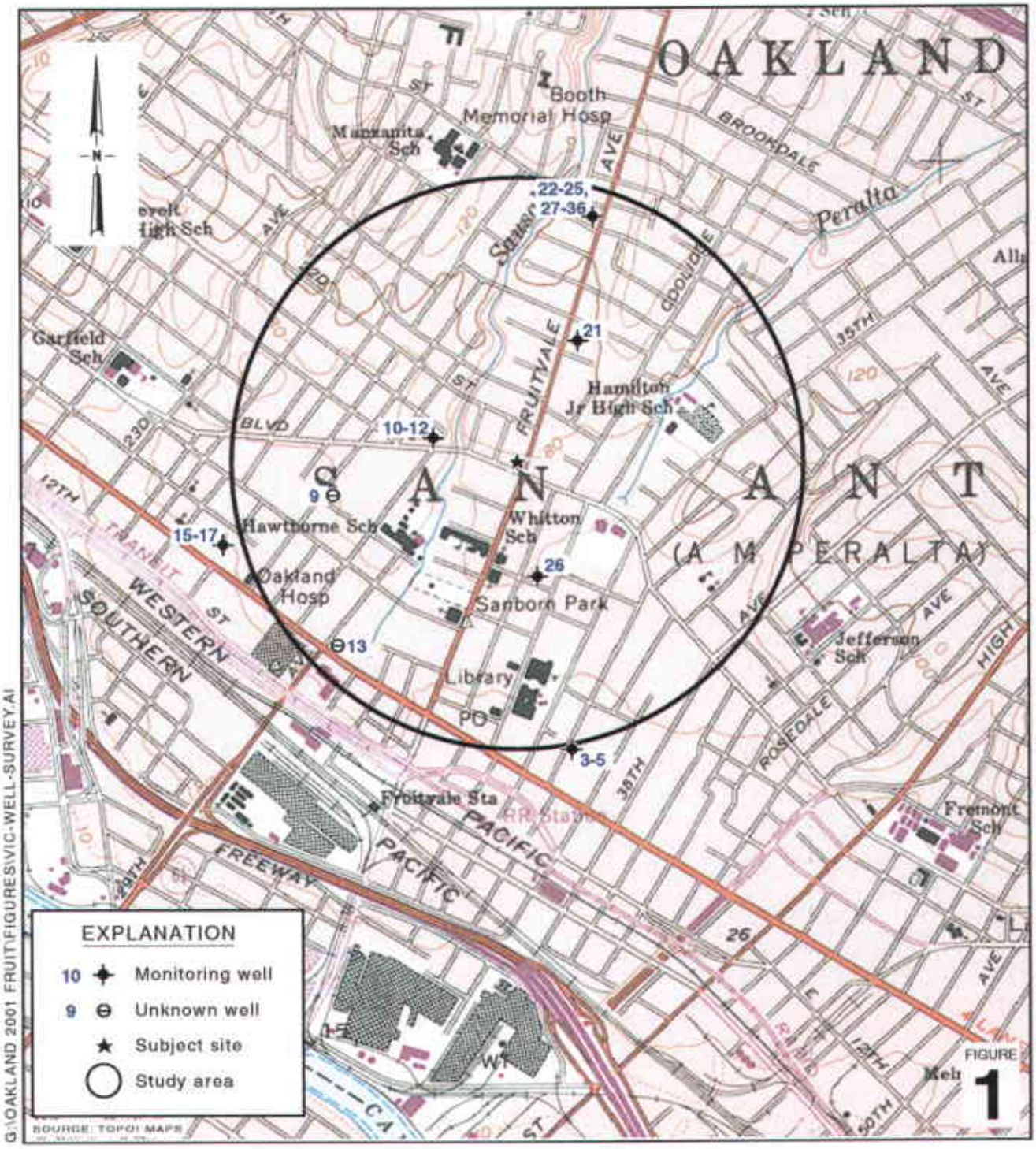
Attachments:

Figure 1. Site Vicinity/Area Well Survey Map
Figure 2. Groundwater Elevation Contour Map

Appendix A. Blaine Groundwater Monitoring Report and Field Notes – Third Quarter 2005
Appendix B. Blaine Groundwater Monitoring Report and Field Notes – Special Sample Events

cc: Mr. Denis Brown, 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

07/14/03



0 1/8 1/4 1/2 1

SCALE : 1" = 1/4 MILE

FIGURE 1

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

CAMBRIA

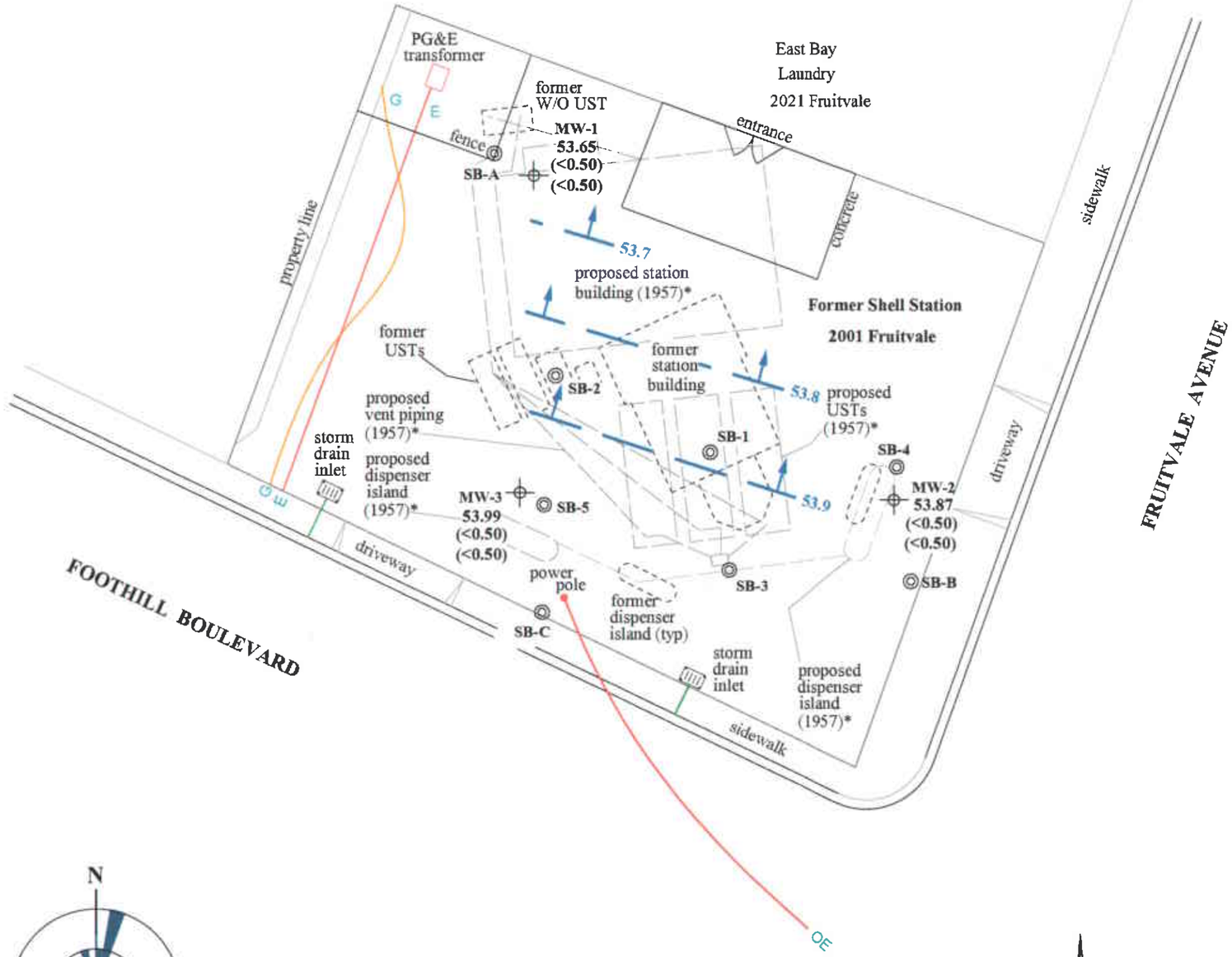
Site Vicinity/Area Well Survey Map

(1/2 Mile Radius)

26-Aug-05

Groundwater Contour/Chemical Concentration Map

July 8, 2005



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

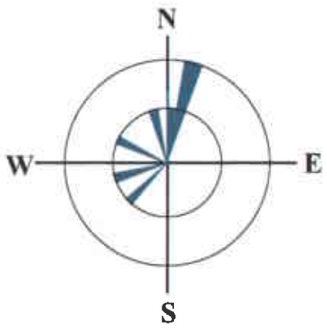
53.65 Groundwater elevation in ft msl

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

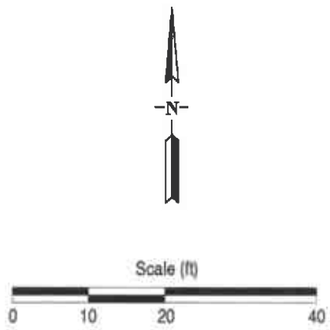
(<0.50) MTBE concentration in ppb

<x Not detected at reporting limit x

Approximate hydraulic gradient = 0.007



Groundwater gradient direction
2Q03 to 3Q05



FIGURE

2

Former Shell Service Station
2001 Fruitvale Avenue
Oakland, California

CAMBRIA

PATH

APPENDIX A

Blaine Groundwater Monitoring Report and Field Notes

BLAINE
TECH SERVICES INC.

GROUNDWATER SAMPLING SPECIALISTS
SINCE 1985

August 1, 2005

Denis Brown
Shell Oil Products US
20945 South Wilmington Avenue
Carson, CA 90810

Third Quarter 2005 Groundwater Monitoring at
Former Shell Service Station
2001 Fruitvale Avenue
Oakland, CA

Monitoring performed July 8, 2005

Groundwater Monitoring Report **050708-DA-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/ks

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

cc: Ana Friel
Cambria Environmental Technology, Inc.
270 Perkins St.
Sonoma, CA 95476

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-1	01/13/2005	64 a	<50	<0.50	<0.50	<0.50	<1.0	<0.50	74.37	15.59	58.78
MW-1	**07/08/2005**	**<50 b**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<1.0**	**<0.50**	**74.37**	**20.72**	**53.65**
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-2	01/13/2005	1600	570 a	0.71	1.1	54	24	<0.50	74.25	15.25	59.00
MW-2	**07/08/2005**	**<50 b**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<1.0**	**<0.50**	**74.25**	**20.38**	**53.87**
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
MW-3	01/13/2005	170 a	92 a	<0.50	<0.50	<0.50	<1.0	<0.50	73.63	14.78	58.85
MW-3	**07/08/2005**	**330**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<1.0**	**<0.50**	**73.63**	**19.64**	**53.99**

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)

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.
b = The concentration reported reflects individual or discrete unidentified peaks not matching a typical fuel pattern.
Site surveyed May 29, 2003 by Virgil Chavez Land Surveying of Vallejo, CA.

SEVERN TRENT STL

Submission#: 2005-07-0182

Blaine Tech Services, Inc.

July 31, 2005

1680 Rogers Avenue
San Jose, CA 95112-1105

Attn.: Leon Gearhart

Project#: 050708-DA1
Project: 97109122
Site: 2001 Fruitvale Ave., Oakland

Dear Mr.Gearhart,

Attached is our report for your samples received on 07/08/2005 13:10
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 08/22/2005 unless you have requested otherwise.
We appreciate the opportunity to be of service to you. If you have any questions,

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

Sincerely,

Melissa Brewer

Melissa Brewer
Project Manager

SEVERN TRENT STL

Submission: 2005-07-0182

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: 050708-DA1
97109122

Received: 07/08/2005 13:10

Site: 2001 Fruitvale Ave., Oakland

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
MW-1	07/08/2005 07:11	Water	1
MW-2	07/08/2005 07:50	Water	2
MW-3	07/08/2005 07:30	Water	3

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

Blaine Tech Services, Inc.

Attn.: Leon Gearhart

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

Project: 050708-DA1
97109122

Received: 07/08/2005 13:10

Site: 2001 Fruitvale Ave., Oakland

Prep(s): 5030B
Test(s): 8260B
Sample ID: **MW-1**
Lab ID: 2005-07-0182-1
Sampled: 07/08/2005 07:11
Extracted: 7/12/2005 23:15
Matrix: Water
QC Batch#: 2005/07/12-2A.68
pH: <2

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	ND	50	ug/L	1.00	07/12/2005 23:15	Q6
Benzene	ND	0.50	ug/L	1.00	07/12/2005 23:15	
Toluene	ND	0.50	ug/L	1.00	07/12/2005 23:15	
Ethylbenzene	ND	0.50	ug/L	1.00	07/12/2005 23:15	
Total xylenes	ND	1.0	ug/L	1.00	07/12/2005 23:15	
Methyl tert-butyl ether (MTBE)	ND	0.50	ug/L	1.00	07/12/2005 23:15	
Surrogate(s)						
1,2-Dichloroethane-d4	98.8	73-130	%	1.00	07/12/2005 23:15	
Toluene-d8	102.4	81-114	%	1.00	07/12/2005 23:15	

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: 050708-DA1
97109122

Received: 07/08/2005 13:10

Site: 2001 Fruitvale Ave., Oakland

Prep(s): 5030B Test(s): 8260B

Sample ID: MW-2 Lab ID: 2005-07-0182-2

Sampled: 07/08/2005 07:50 Extracted: 07/12/2005 23:41

Matrix: Water QC Batch#: 2005/07/12-2A.68

pH: <2

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	ND	50	ug/L	1.00	07/12/2005 23:41	Q6
Benzene	ND	0.50	ug/L	1.00	07/12/2005 23:41	
Toluene	ND	0.50	ug/L	1.00	07/12/2005 23:41	
Ethylbenzene	ND	0.50	ug/L	1.00	07/12/2005 23:41	
Total xylenes	ND	1.0	ug/L	1.00	07/12/2005 23:41	
Methyl tert-butyl ether (MTBE)	ND	0.50	ug/L	1.00	07/12/2005 23:41	
Surrogate(s)						
1,2-Dichloroethane-d4	97.7	73-130	%	1.00	07/12/2005 23:41	
Toluene-d8	100.5	81-114	%	1.00	07/12/2005 23:41	

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: 050708-DA1
97109122

Received: 07/08/2005 13:10

Site: 2001 Fruitvale Ave., Oakland

Prep(s): 5030B Test(s): 8260B
Sample ID: MW-3 Lab ID: 2005-07-0132
Sampled: 07/08/2005 07:30 Extracted: 7/13/2005 00:06
Matrix: Water QC Batch#: 2005/07/12-2A.68
pH: <2

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	330	50	ug/L	1.00	07/13/2005 00:06	
Benzene	ND	0.50	ug/L	1.00	07/13/2005 00:06	
Toluene	ND	0.50	ug/L	1.00	07/13/2005 00:06	
Ethylbenzene	ND	0.50	ug/L	1.00	07/13/2005 00:06	
Total xylenes	ND	1.0	ug/L	1.00	07/13/2005 00:06	
Methyl tert-butyl ether (MTBE)	ND	0.50	ug/L	1.00	07/13/2005 00:06	
Surrogate(s)						
1,2-Dichloroethane-d4	98.8	73-130	%	1.00	07/13/2005 00:06	
Toluene-d8	99.6	81-114	%	1.00	07/13/2005 00:06	

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: 050708-DA1
97109122

Received: 07/08/2005 13:10

Site: 2001 Fruitvale Ave., Oakland

Batch QC Report

Prep(s): 5030B Test(s): 8260B

Method Blank Water QC Batch # 2005/07/12-2A.68

MB 2005/07/12-2A.68-017 Date Extracted: 07/12/2005 19:17

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline [Shell]	ND	50	ug/L	07/12/2005 19:17	
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	07/12/2005 19:17	
Benzene	ND	0.5	ug/L	07/12/2005 19:17	
Toluene	ND	0.5	ug/L	07/12/2005 19:17	
Ethylbenzene	ND	0.5	ug/L	07/12/2005 19:17	
Total xylenes	ND	1.0	ug/L	07/12/2005 19:17	
Surrogates(s)					
1,2-Dichloroethane-d4	96.2	73-130	%	07/12/2005 19:17	
Toluene-d8	102.2	81-114	%	07/12/2005 19:17	

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: 050708-DA1
97109122

Received: 07/08/2005 13:10

Site: 2001 Fruitvale Ave., Oakland

Batch QC Report

Prep(s): 5030B — Test(s): 8260B

Laboratory Control Spike — Water — QC Batch # 2005/07/12-2A.68

LCS: 2005/07/12-2A68-051 — Extracted: 07/12/2005 — Analyzed: 07/12/2005 18:51

LCSD:

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
Methyl tert-butyl ether (MTBE)	21.6		25	86.4			65-165	20		
Benzene	22.9		25	92.0			69-129	20		
Toluene	24.9		25	99.6			70-130	20		
Surrogates(s)										
1,2-Dichloroethane-d4	388		500	77.6			73-130			
Toluene-d8	502		500	100.4			81-114			

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

Blaine Tech Services, Inc.

Attn.: Leon Gearhart

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

Project: 050708-DA1
97109122

Received: 07/08/2005 13:10

Site: 2001 Fruitvale Ave., Oakland

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Matrix Spike (MS / MSD)

Water

QC Batch # 2005/07/12-2A.68

MS/MSD

Lab ID: 2005-07-0211-002

MS: 2005/07/12-2A.68-014

Extracted: 07/12/2005

Analyzed: 07/12/2005 20:14

Dilution: 5.00

MSD: 2005/07/12-2A.68-039

Extracted: 07/12/2005

Analyzed: 07/12/2005 20:40

Dilution: 5.00

Compound	Conc. ug/L			Spk.Level	Recovery %			Limits %		Flags	
	MS	MSD	Sample	ug/L	MS	MSD	RPD	Rec.	RPD	MS	MSD
Methyl tert-butyl ether	116	119	11.8	125	83.4	85.8	2.8	65-165	20		
Benzene	143	134	26.9	125	92.9	85.7	8.1	69-129	20		
Toluene	117	125	0.932	125	92.9	99.3	6.7	70-130	20		
Surrogate(s)											
1,2-Dichloroethane-d4	386	400		500	77.2	80.0		73-130			
Toluene-d8	479	515		500	95.9	103.0		81-114			

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

Blaine Tech Services, Inc.

Attn.: Leon Gearhart

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

Project: 050708-DA1
97109122

Received: 07/08/2005 13:10

Site: 2001 Fruitvale Ave., Oakland

Legend and Notes

Sample Comment

Lab ID: 2005-07-0182 -1

Siloxane peaks are found in the sample which are not believed to be gasoline related. If they were t be quantified as gasoline, the concentration would be 56ug/L.

Lab ID: 2005-07-0182 -2

Siloxane peaks are found in the sample which are not believed to be gasoline related. If they were t be quantified as gasoline, the concentration would be 53ug/L.

Result Flag

Q6

The concentration reported reflect(s) individual or discrete unidentified peaks not matching a typical fuel pattern.

SEVERN TRENT STL

Submission: 2005-07-0182

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: 050708-DA1
97109122

Received: 07/08/2005 13:10

Site: 2001 Fruitvale Ave., Oakland

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
MW-1	07/08/2005 07:11	Water	1
MW-2	07/08/2005 07:50	Water	2
MW-3	07/08/2005 07:30	Water	3

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: 050708-DA1
97109122

Received: 07/08/2005 13:10

Site: 2001 Fruitvale Ave., Oakland

Prep(s): 3510C
Test(s): 8015M

Sample ID: MW-1
Lab ID: 2005-07-0182-1

Sampled: 07/08/2005 07:11
Extracted: 7/22/2005 13:10

Matrix: Water
QC Batch#: 2005/07/22-03.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	ND	50	ug/L	1.00	07/27/2005	
Surrogate(s)						
o-Terphenyl	85.5	64-127	%	1.00	07/27/2005	

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: 050708-DA1
97109122

Received: 07/08/2005 13:10

Site: 2001 Fruitvale Ave., Oakland

Prep(s): 3511 Test(s): 8015M
Sample ID: MW-2 Lab ID: 2005-07-0182-2
Sampled: 07/08/2005 07:50 Extracted: 7/22/2005 10:31
Matrix: Water QC Batch#: 2005/07/22-03.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	ND	50	ug/L	1.00	07/27/2005 00:30	
Surrogate(s)						
o-Terphenyl	89.6	64-127	%	1.00	07/27/2005 00:30	

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: 050708-DA1
97109122

Received: 07/08/2005 13:10

Site: 2001 Fruitvale Ave., Oakland

Prep(s):	3510	Test(s):	8015M
Sample ID:	MW-3	Lab ID:	2005-07-0182-3
Sampled:	07/08/2005 07:30	Extracted:	7/22/2005 13:11
Matrix:	Water	QC Batch#:	2005/07/22-03.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	ND	50	ug/L	1.00	07/27/2005 00:59	
Surrogate(s)						
o-Terphenyl	96.9	64-127	%	1.00	07/27/2005 00:59	

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: 050708-DA1
97109122

Received: 07/08/2005 13:10

Site: 2001 Fruitvale Ave., Oakland

Batch QC Report

Prep(s): 3511 Test(s): 8015M

Method Blank Water QC Batch#: 2005/07/22-03.10

MB: 2005/07/22-03.10.001 Date Extracted: 07/22/2005 08:11

Compound	Conc.	RL	Unit	Analyzed	Flag
Diesel	ND	50	ug/L	07/26/2005 22:33	
Surrogates(s)					
o-Terphenyl	102.7	64-127	%	07/26/2005 22:33	

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: 050708-DA1
97109122

Received: 07/08/2005 13:10

Site: 2001 Fruitvale Ave., Oakland

Batch QC Report

Prep(s): 3511 — Test(s): 8015M

Laboratory Control Spike — **Water** — **QC Batch #: 2005/07/22-03.10**

LCS: 2005/07/22-03.10-002 — Extracted: 07/22/2005 — Analyzed: 07/23/2005 11:28

LCSD: 2005/07/22-03.10-003 — Extracted: 07/22/2005 — Analyzed: 07/23/2005 11:56

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
Diesel	321	389	680	47.2	57.2	19.2	60-150	25	C2	C2
Surrogates(s)										
o-Terphenyl	0.985	1.12	1.25	78.8	89.2		64-127	0		

STL San Francisco

Sample Receipt Checklist

Submission #:2005- 07-0182

Checklist completed by:		DATE	07-12-05
Courier: ☐ STL SF	Courier ☐ Fedex UPS Other		Client ☒

	Log-In Details	Yes	No	Comments
1	Custody seals intact on shipping container/samples		✓	
2	Chain of custody present?	✓		
3	Chain of custody signed when relinquished and received?	✓		☐ Picked-Up at Secure Location ☐ Client signed-off at time prior to pick-up
4	All samples checked when COC relinquished		✓	
5	Chain of custody agrees with sample labels?	✓		
6	Samples in proper container/bottle?	✓		
7	Sample containers intact?	✓		
8	Sufficient sample volume for indicated test?	✓		
9	All samples received within holding time?	✓		

Cooler Temperature Compliance Check

Temperature Blank Reading	If no trip blank is submitted individual temperatures must be taken as per SOP.	Cooler Sample Temperature #1	#2	#3	Average
	→	6	6	6	6

Reason for Elevated Temperature	Samples with Temp > 6°C - Comments
☐ - Ice Melted ☐ Insufficient Ice ☐	
☐ Samp. in boxes ☐ Sampled < 4hr. ☐ Ice not req.	

VOA Sample Inspection

	Sample #	Small	Med.	Large	Samples with broken, cracked or leaking containers
Are bubbles present in any of the VOA vials ?		0	0	0	
		☐	☐	☐	
		☐	☐	☐	
		☐	☐	☐	

	Yes	No	Samples with Unacceptable pH
Water - pH acceptable upon receipt?	☐	☐	

☐ pH adjusted- Preservative used: ☐ HNO_3 ☐ HCl ☐ H_2SO_4 ☐ NaOH ☐ ZnOAc –Lot #(s) _____

Comments:

Project Management [Routing for instruction of indicated discrepancy(ies)]

Project Manager: (Initials) _____ Date: ____/____/05 Client contacted: Yes☐ No☐

Summary of discussion:

Corrective Action (per PM/Client):

2005 Checklist Ver. 1.0

LAB: STL

SHELL Chain Of Custody Record

115787

Lab Identification (if necessary):

Address:

City, State, Zip:

Shell Project Manager to be Invoiced:

☑ SCIENCE & ENGINEERING ☐ TECHNICAL SERVICES ☐ CRMT HOUSTON

Denis Brown

2005-07-0182

INCIDENT NUMBER (S&E ONLY): 9 7 1 0 9 1 2 2

SAP or CRMT NUMBER (TS/CRMT):

DATE: 7/8/05

PAGE: 1 of 1

SAMPLING COMPANY:	LOG CODE:	SITE ADDRESS (Street and City):	GLOBAL ID NO.:
Blaine Tech Services	BTSS	2001 Fruitvale Ave., Oakland	T0600102236

ADDRESS:	PROJECT CONTACT (Hardcopy or PDF Report to):	TELEPHONE:	FAX:	E-MAIL:
1680 Rogers Avenue, San Jose, CA 95112	Leon Gearhart	408-573-0555	408-573-7771	lgearhart@blainetech.com

EDF DELIVERABLE TO (Responsible Party or Designee):	PHONE NO.:	E-MAIL:	CONSULTANT PROJECT NO.:
Ana Friel	(707) 268-3812	sonomaedf@cambria-env.com	050708-DA1

SAMPLER NAME(S) (Print): David Albut

BTS #

LAB USE ONLY

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

☐ LA - RWQCB REPORT FORMAT ☐ UST AGENCY:

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

SPECIAL INSTRUCTIONS OR NOTES: CHECK BOX IF EDD IS NOT NEEDED ☐

REQUESTED ANALYSIS

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	TPH - Gas, Purgeable	BTEX	MTBE (8021B - 5ppb RL)	MTBE (8260B - 0.5ppb RL)	Oxygenates (5) by (8260B)	Ethanol (8260B)	Methanol	1,2-DCA (8260B)	EDB (8260B)		TPH - Diesel, Extractable (8015m)
	MW-1	7/8/05	0711	W	6	X	X		X							X
	MW-2	↓	0720	↓	↓	X	X		X							X
	MW-3	↓	0730	↓	↓	X	X		X							X

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

6°C

TEMPERATURE ON RECEIPT C°

Relinquished by: (Signature)	Received by: (Signature)	Date	Time
David Albut		7/8/05	1310
Relinquished by: (Signature)	Received by: (Signature)	Date	Time
Relinquished by: (Signature)	Received by: (Signature)	Date	Time

Green to File, Yellow and

O&G Graphic (714) 998-9702

WELLHEAD INSPECTION CHECKLIST

Client Shell Date 7/8/05

Site Address 2001 Fruitvale Ave. Oakland, CA

Job Number 050708-DA1 Technician DA

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							
MW-2	X							
MW-3	X							

NOTES:

WELL GAUGING DATA

Project # 050708-DA1 Date 7/8/05 Client Shell

Site 2001 Fruitvale Ave. Oakland, CA

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					20.72	29.45	TOC	
MW-2	4					20.38	30.05	↓	
MW-3	4					19.64	29.65	↓	
All wells allowed to equilibrate before ganging (15 minutes)									

Repair Data Sheet

Client Shell Date 6-8-05

Site Address 2001 Fruitvale Ave, Oakland

Job Number 050608AA2 Technician Andrew Adinolfi

Inspection Point (Well ID or description of location)	Well Inspected, Cleared, Labeled - No Further Corrective Action Required	Replaced Cap	Replaced Lock	Replaced Lid Seal	Check Indicates deficiency: Casing	Annular Seal	Tabs / Bolts	Box Structure	Apron	Trip Hazard	Below Grade	Other Deficiency	Lid Not Securable By Design (List Type)	Well Not Inspected (explain in notes)	Deficiency Logged on Repair Order	Deficiency Remains Uncorrected/Logged on Site Inspection Checklist	Partial Repair Completed/Outstanding Deficiency Logged on Repair Order	All Repairs Completed
MW-1									X			X						X
Notes: Wellbox rim base detached from apron (trip hazard) replaced wellbox																		
Notes:																		
Notes:																		
Notes:																		
Notes:																		

SHELL WELL MONITORING DATA SHEET

BTS #: 050708-DA1	Site: 2001 Fruitvale Ave. Oakland, CA
Sampler: DA	Date: 7/8/05
Well I.D.: MW-1	Well Diameter: 2 3 (4) 6 8
Total Well Depth (TD): 29.45	Depth to Water (DTW): 20.72
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]: 22.47	

Purge Method: Bailer; Disposable Bailer; Positive Air Displacement; X Electric Submersible; Waterra; Peristaltic; Extraction Pump; Other_____

Sampling Method: X Bailer; Disposable Bailer; Extraction Port; Dedicated Tubing; Other:_____

5.7 (Gals.) X 3 = 17.1 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	radius² * 0.163

Time	Temp (°F)	pH	Cond. (mS or (uS))	Turbidity (NTUs)	Gals. Removed	Observations
0706	65.7	6.1	541	166	6	grey
0707	66.1	6.1	506	62	12	tan
0708	66.1	6.2	500	50	17.5	"

Did well dewater? Yes (No) Gallons actually evacuated: 17.5

Sampling Date: 7/8/05 Sampling Time: ~~0708~~ 0711 Depth to Water: 22.17

Sample I.D.: MW-1 Laboratory: (STL) Other_____

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

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

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

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

SHELL WELL MONITORING DATA SHEET

BTS #: 050708-DA1	Site: 2001 Fruitvale Ave. Oakland, CA
Sampler: DA	Date: 7/8/05
Well I.D.: MW-2	Well Diameter: 2 3 (4) 6 8
Total Well Depth (TD): 30.05	Depth to Water (DTW): 20.38
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]: 22.31	

Purge Method: Bailer; Disposable Bailer; Positive Air Displacement; X Electric Submersible; Waterra; Peristaltic; Extraction Pump; Other_____

Sampling Method: X Bailer; Disposable Bailer; Extraction Port; Dedicated Tubing; Other: _____

1 Case Volume	Specified Volumes	Calculated Volume
6.3 (Gals.) X	3	= 18.9 Gals.

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius² * 0.163

Time	Temp (°F)	pH	Cond. (mS or (µS))	Turbidity (NTUs)	Gals. Removed	Observations
0744	65.3	6.5	466	54	6.5	clear
0745	66.0	6.5	466	60	13	"
0746	66.4	6.5	466	199	19	"

Did well dewater? Yes (No) Gallons actually evacuated: 19

Sampling Date: 7/8/05 Sampling Time: 0750 Depth to Water: 20.95

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

BTS #: 050708-DA1	Site: 2001 Fruitvale Ave. Oakland, CA
Sampler: DA	Date: 7/8/05
Well I.D.: MW-3	Well Diameter: 2 3 (4) 6 8
Total Well Depth (TD): 29.65	Depth to Water (DTW): 19.64
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]: 21.64	

Purge Method:
- Bailer
- Disposable Bailer
- Positive Air Displacement
- X Electric Submersible
- Waterra
- Peristaltic
- Extraction Pump
- Other

Sampling Method:
- X Bailer
- Disposable Bailer
- Extraction Port
- Dedicated Tubing
- Other:

6.5 (Gals.) X 3 = 19.5 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	radius² * 0.163

Time	Temp (°F)	pH	Cond. (mS or (µS))	Turbidity (NTUs)	Gals. Removed	Observations
0724	62.8	6.3	504	128	6.5	tan, cloudy
0725	65.9	6.4	470	42	13	clearing
0726	65.5	6.4	464	37	19.5	

Did well dewater? Yes (No) Gallons actually evacuated: 19.5

Sampling Date: 7/8/05 Sampling Time: 0730 Depth to Water: 21.64

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

APPENDIX B

Blaine Groundwater Monitoring Report and Field Notes
Special Sample Events

BLAINE
TECH SERVICES INC.

GROUNDWATER SAMPLING SPECIALISTS
SINCE 1985

September 1, 2005

Denis Brown
Shell Oil Products US
20945 South Wilmington Avenue
Carson, CA 90810

August 2005 Special Monthly Groundwater Monitoring at
Former Shell Service Station
2001 Fruitvale Avenue
Oakland, CA

Monitoring performed August 2 and 16, 2005

Groundwater Monitoring Report **050802-SS-2**

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/ks

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

cc: Ana Friel
Cambria Environmental Technology, Inc.
270 Perkins St.
Sonoma, CA 95476

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)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)
MW-1	05/01/2003	NA	NA	NA	NA	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	NA	NA	NA	NA	74.37	18.99	55.38
MW-1	07/01/2003	<50	<50	<0.50	<0.50	<0.50	<1.0	<0.50	NA	NA	NA	NA	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	NA	NA	NA	NA	74.37	23.44	50.93
MW-1	01/22/2004	<50	62 a	<0.50	<0.50	<0.50	<1.0	<0.50	NA	NA	NA	NA	74.37	18.30	56.07
MW-1	04/01/2004	69 a	<50	<0.50	<0.50	<0.50	<1.0	<0.50	NA	NA	NA	NA	74.37	18.82	55.55
MW-1	01/13/2005	64 a	<50	<0.50	<0.50	<0.50	<1.0	<0.50	NA	NA	NA	NA	74.37	15.59	58.78
MW-1	07/08/2005	<50 b	<50	<0.50	<0.50	<0.50	<1.0	<0.50	NA	NA	NA	NA	74.37	20.72	53.65
MW-1	**08/16/2005**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**74.37**	**21.63**	**52.74**
MW-2	05/01/2003	NA	NA	NA	NA	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	NA	NA	NA	NA	74.25	18.71	55.54
MW-2	07/01/2003	<50	<50	<0.50	<0.50	<0.50	<1.0	<0.50	NA	NA	NA	NA	74.25	20.64	53.61
MW-2	11/04/2003	<50	<50	<0.50	<0.50	<0.50	<1.0	<0.50	NA	NA	NA	NA	74.25	23.16	51.09
MW-2	01/22/2004	200	97 a	<0.50	<0.50	6.1	2.4	<0.50	NA	NA	NA	NA	74.25	17.94	56.31
MW-2	04/01/2004	150	100 a	<0.50	<0.50	3.9	1.9	<0.50	NA	NA	NA	NA	74.25	18.64	55.61
MW-2	01/13/2005	1600	570 a	0.71	1.1	54	24	<0.50	NA	NA	NA	NA	74.25	15.25	59.00
MW-2	07/08/2005	<50 b	<50	<0.50	<0.50	<0.50	<1.0	<0.50	NA	NA	NA	NA	74.25	20.38	53.87
MW-2	**08/02/2005**	**75**	**<50**	**<0.50**	**<0.50**	**1.4**	**<1.0**	**<0.50**	**<2.0**	**<2.0**	**<2.0**	**<5.0**	**74.25**	**20.84**	**53.41**
MW-3	05/01/2003	NA	NA	NA	NA	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	NA	NA	NA	NA	73.63	18.12	55.51
MW-3	07/01/2003	210	57 a	<0.50	<0.50	<0.50	<1.0	<0.50	NA	NA	NA	NA	73.63	20.00	53.63
MW-3	11/04/2003	4,200	630 a	<5.0	<5.0	8.7	10	<5.0	NA	NA	NA	NA	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	NA	NA	NA	NA	73.63	17.60	56.03
MW-3	04/01/2004	150	<50	<0.50	<0.50	<0.50	<1.0	<0.50	NA	NA	NA	NA	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)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)
MW-3	01/13/2005	170 a	92 a	<0.50	<0.50	<0.50	<1.0	<0.50	NA	NA	NA	NA	73.63	14.78	58.85
MW-3	07/08/2005	330	<50	<0.50	<0.50	<0.50	<1.0	<0.50	NA	NA	NA	NA	73.63	19.64	53.99

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, analyzed by EPA Method 8260B.
ETBE = Ethyl tertiary butyl ether, analyzed by EPA Method 8260B.
TAME = Tertiary amyl methyl ether, analyzed by EPA Method 8260B.
TBA = Tertiary butyl alcohol, analyzed by EPA Method 8260B.
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.
b = The concentration reported reflects individual or discrete unidentified peaks not matching a typical fuel pattern.
Site surveyed May 29, 2003 by Virgil Chavez Land Surveying of Vallejo, CA.

SEVERN TRENT STL

Submission#: 2005-08-0098

Blaine Tech Services, Inc.

August 23, 2005

1680 Rogers Avenue
San Jose, CA 95112-1105

Attn.: Leon Gearhart

Project#: 050802-SS2
Project: 97109122
Site: 2001 Fruitvale Ave., Oakland

Dear Mr.Gearhart,

Attached is our report for your samples received on 08/03/2005 11:45
This report has been reviewed and approved for release. Reproduction of this report is permitted only in its entirety.

Please note that any unused portion of the samples will be discarded after 09/17/2005 unless you have requested otherwise.
We appreciate the opportunity to be of service to you. If you have any questions,

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

Sincerely,

Melissa Brewer

Melissa Brewer
Project Manager

SEVERN TRENT STL

Submission: 2005-08-0098

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: 050802-SS2
97109122

Received: 08/03/2005 11:45

Site: 2001 Fruitvale Ave., Oakland

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
MW-2	08/02/2005 12:40	Water	1

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: 050802-SS2
97109122

Received: 08/03/2005 11:45

Site: 2001 Fruitvale Ave., Oakland

Prep(s): 5030B
Test(s): 8260B

Sample ID: MW-2
Lab ID: 2005080098-[illegible]

Sampled: 08/02/2005 12:40
Extracted: 08/11/2005 [illegible]

Matrix: Water
QC Batch#: 2005/08/11-2B.62

pH: <2

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	75	50	ug/L	1.00	08/11/2005 14:40	
Benzene	ND	0.50	ug/L	1.00	08/11/2005 14:40	
Toluene	ND	0.50	ug/L	1.00	08/11/2005 14:40	
Ethylbenzene	1.4	0.50	ug/L	1.00	08/11/2005 14:40	
Total xylenes	ND	1.0	ug/L	1.00	08/11/2005 14:40	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	1.00	08/11/2005 14:40	
Methyl tert-butyl ether (MTBE)	ND	0.50	ug/L	1.00	08/11/2005 14:40	
Di-isopropyl Ether (DIPE)	ND	2.0	ug/L	1.00	08/11/2005 14:40	
Ethyl tert-butyl ether (ETBE)	ND	2.0	ug/L	1.00	08/11/2005 14:40	
tert-Amyl methyl ether (TAME)	ND	2.0	ug/L	1.00	08/11/2005 14:40	
Surrogate(s)						
1,2-Dichloroethane-d4	105.1	73-130	%	1.00	08/11/2005 14:40	
Toluene-d8	95.2	81-114	%	1.00	08/11/2005 14:40	

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: 050802-SS2
97109122

Received: 08/03/2005 11:45

Site: 2001 Fruitvale Ave., Oakland

Batch QC Report

Prep(S): 5030B — Test(S): 8260B

Method Blank — Water — QC Batch #: 2005/08/MB-1B62

MB: 2005/08/MB-1B62.024 — Date Extracted: 08/11/2005 12:24

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline [Shell]	ND	50	ug/L	08/11/2005 12:24	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	08/11/2005 12:24	
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	08/11/2005 12:24	
Di-isopropyl Ether (DIPE)	ND	2.0	ug/L	08/11/2005 12:24	
Ethyl tert-butyl ether (ETBE)	ND	2.0	ug/L	08/11/2005 12:24	
tert-Amyl methyl ether (TAME)	ND	2.0	ug/L	08/11/2005 12:24	
Benzene	ND	0.5	ug/L	08/11/2005 12:24	
Toluene	ND	0.5	ug/L	08/11/2005 12:24	
Ethylbenzene	ND	0.5	ug/L	08/11/2005 12:24	
Total xylenes	ND	1.0	ug/L	08/11/2005 12:24	
Surrogates(s)					
1,2-Dichloroethane-d4	90.3	73-130	%	08/11/2005 12:24	
Toluene-d8	93.7	81-114	%	08/11/2005 12:24	

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: 050802-SS2
97109122

Received: 08/03/2005 11:45

Site: 2001 Fruitvale Ave., Oakland

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Laboratory Control Spike

Water

QC Batch#: 2005/08/11-1B.62

LCS: 2005/08/11-1B.62-058

Extracted: 08/11/2005

Analyzed: 08/11/2005 11:58

LCSD

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
Methyl tert-butyl ether (MTBE)	46.2		50	92.4			65-165	20		
Benzene	46.4		50	92.8			69-129	20		
Toluene	45.8		50	91.6			70-130	20		
Surrogates(s)										
1,2-Dichloroethane-d4	372		500	74.4			73-130			
Toluene-d8	454		500	90.8			81-114			

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: 050802-SS2
97109122

Received: 08/03/2005 11:45

Site: 2001 Fruitvale Ave., Oakland

Batch QC Report

Prep(s): 5030B Test(s): 8260B

Matrix Spike (MS / MSD) Water QC Batch # 2005/08/11-1B.62

MS/MSD: Lab ID: 2005-08-0035-003

MS: 2005/08/11-1B.62-022 Extracted: 08/11/2005 Analyzed: 08/11/2005 10:22

Dilution: 1.00

MSD: 2005/08/11-1B.62-043 Extracted: 08/11/2005 Analyzed: 08/11/2005 10:46

Dilution: 1.00

Compound	Conc. ug/L			Spk.Level	Recovery %			Limits %		Flags	
	MS	MSD	Sample	ug/L	MS	MSD	RPD	Rec.	RPD	MS	MSD
Methyl tert-butyl ether	23.5	24.2	ND	25	94.0	96.8	2.9	65-165	20		
Benzene	20.3	19.5	ND	25	81.2	78.0	4.0	69-129	20		
Toluene	22.2	22.1	ND	25	88.8	88.4	0.5	70-130	20		
Surrogate(s)											
1,2-Dichloroethane-d4	457	453		500	91.4	90.6		73-130			
Toluene-d8	477	459		500	95.4	91.8		81-114			

SEVERN TRENT STL

Submission: 2005-08-0098

Diesel (C9-C24) with Silica Gel Clean-up

Blaine Tech Services, Inc.
Attn.: Leon Gearhart

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

Project: 050802-SS2
97109122

Received: 08/03/2005 11:45

Site: 2001 Fruitvale Ave., Oakland

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
MW-2	08/02/2005 12:40	Water	1

Diesel (C9-C24) with Silica Gel Clean-up

Blaine Tech Services, Inc.

Attn.: Leon Gearhart

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

Project: 050802-SS2
97109122

Received: 08/03/2005 11:45

Site: 2001 Fruitvale Ave., Oakland

Prep(s): 3511 Test(s): 8015M

Sample ID: MW-2 Lab ID: 2005-08-0098 - 1

Sampled: 08/02/2005 12:40 Extracted: 08/12/2005 15:36

Matrix: Water QC Batch#: 2005/08/12-04.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	ND	50	ug/L	1.00	08/17/2005 22:04	
Surrogate(s)						
o-Terphenyl	105.8	60-130	%	1.00	08/17/2005 22:04	

Diesel (C9-C24) with Silica Gel Clean-up

Blaine Tech Services, Inc.

Attn.: Leon Gearhart

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

Project: 050802-SS2
97109122

Received: 08/03/2005 11:45

Site: 2001 Fruitvale Ave., Oakland

Batch QC Report

Prep(s): 3510 Water Test(s): 8015M

Method Blank QC Batch #: 2005/08/12-04.10

MB-2005/08/12-04.10-001 Date Extracted: 08/12/2005 15:56

Compound	Conc.	RL	Unit	Analyzed	Flag
Diesel	ND	50	ug/L	08/17/2005 13:14	
Surrogates(s)					
o-Terphenyl	115.9	60-130	%	08/17/2005 13:14	

Diesel (C9-C24) with Silica Gel Clean-up

Blaine Tech Services, Inc.

Attn.: Leon Gearhart

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

Project: 050802-SS2
97109122

Received: 08/03/2005 11:45

Site: 2001 Fruitvale Ave., Oakland

Batch QC Report

Prep(s): 3511

Test(s): 8015M

Laboratory Control Spike

Water

QC Batch # 2005/08/12-04.10

LCS: 2005/08/12-04.10-002 Extracted: 08/12/2005 Analyzed: 08/17/2005 13:41

LCSD: 2005/08/12-04.10-003 Extracted: 08/12/2005 Analyzed: 08/17/2005 14:08

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
Diesel	531	494	680	78.1	72.6	7.3	60-150	25		
Surrogates(s)										
o-Terphenyl	1.35	1.32	1.25	108.0	105.8		60-130	0		

LAB: SLL

SHELL Chain Of Custody Record

117276

Lab Identification (if necessary)

Address:

City, State, Zip:

Shell Project Manager to be Invoiced:

- [x] SCIENCE & ENGINEERING
- [ ] TECHNICAL SERVICES
- [ ] CRMT HOUSTON

Denis Brown

2005-08-0098

INCIDENT NUMBER (S&E ONLY): 9 7 1 0 9 1 2 2

SAP or CRMT NUMBER (TS/CRMT):

DATE: 8/2/05

PAGE: 1 of 1

SAMPLING COMPANY:	Blaine Tech Services
LOG CODE:	BTSS
SITE ADDRESS (Street and City):	2001 Fruitvale Ave., Oakland
GLOBAL ID NO.:	T0600102236
ADDRESS:	1680 Rogers Avenue, San Jose, CA 95112
EDF DELIVERABLE TO (Responsible Party or Designee):	Ana Friel
PHONE NO.:	(707) 268-3812
E-MAIL:	sonomaedf@cambria-env.com
CONSULTANT PROJECT NO.:	050802-SS2
BTS #	
PROJECT CONTACT (Hardcopy or PDF Report to):	Leon Gearhart
SAMPLER NAME(S) (Print):	Sucheon Sung
TELEPHONE:	408-573-0555
FAX:	408-573-7771
E-MAIL:	lgearhart@blainetech.com
LAB USE ONLY	

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

- [ ] LA - RWQCB REPORT FORMAT
- [ ] UST AGENCY: ______

GC/MS MTBE CONFIRMATION: HIGHEST ______ HIGHEST per BORING ______ ALL ______

SPECIAL INSTRUCTIONS OR NOTES: CHECK BOX IF EDD IS NOT NEEDED [ ]

REQUESTED ANALYSIS

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	TPH - Gas, Purgeable	BTEX	MTBE (8021B - 5ppb RL)	MTBE (8260B - 0.5ppb RL)	Oxygenates (5) by (8260B)	Ethanol (8260B)	Methanol	1,2-DCA (8260B)	EDB (8260B)		TPH - Diesel, Extractable (8015m)	TPH-D with silica gel clean up	Chlorinated Solvents		FIELD NOTES: Container/Preservative or PID Readings or Laboratory Notes
	MW-2	8/2/05	1240	GW	6	X	X			X							X	~~X~~	JB	

FIELD NOTES: 3

TEMPERATURE ON RECEIPT C°

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
[signature]	[signature] Sample Custodian	8/2/05	1509
[signature] SAMPLE CUSTODIAN	[signature]	8/3/05	1145
[signature]	[signature]	8/3/05	1635

DISTRIBUTION: White with final report, Green to File, Yellow and Pink to Client.

10/16/00 Revision

SEVERN TRENT STL

Submission#: 2005-08-0535

Blaine Tech Services, Inc.

August 31, 2005

1680 Rogers Avenue
San Jose, CA 95112-1105

Attn.: Leon Gearhart

Project#: BTS#050816-MD4
Project: 97109122
Site: 2001 Fruitvale Ave., Oakland

Dear Mr.Gearhart,

Attached is our report for your samples received on 08/17/2005 15:55
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 10/01/2005 unless you have requested otherwise.
We appreciate the opportunity to be of service to you. If you have any questions,

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

Sincerely,

Melissa Brewer

Melissa Brewer
Project Manager

SEVERN TRENT STL

Submission: 2005-08-0535

Halogenated Volatile Organic Compounds by 8021B/8260B

Blaine Tech Services, Inc.
Attn.: Leon Gearhart

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

Project: BTS#050816-MD4
97109122

Received: 08/17/2005 15:55

Site: 2001 Fruitvale Ave., Oakland

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
MW-1	08/16/2005 15:40	Water	1

Halogenated Volatile Organic Compounds by 8021B/8260B

Blaine Tech Services, Inc.

Attn.: Leon Gearhart

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

Project: BTS#050816-MD4
97109122

Received: 08/17/2005 15:55

Site: 2001 Fruitvale Ave., Oakland

Prep(s): 5030B
Test(s): 8260B
Sample ID: MW-1
Lab ID: 2005-08-0535-1
Sampled: 08/16/2005 15:40
Extracted: 08/29/2005 19:48
Matrix: Water
QC Batch#: 2005/08/29-01.08

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Dichlorodifluoromethane	ND	1.0	ug/L	1.00	08/29/2005 19:48	
Vinyl chloride	ND	0.50	ug/L	1.00	08/29/2005 19:48	
Chloroethane	ND	1.0	ug/L	1.00	08/29/2005 19:48	
Trichlorofluoromethane	ND	1.0	ug/L	1.00	08/29/2005 19:48	
1,1-Dichloroethene	ND	0.50	ug/L	1.00	08/29/2005 19:48	
Methylene chloride	ND	5.0	ug/L	1.00	08/29/2005 19:48	
trans-1,2-Dichloroethene	ND	0.50	ug/L	1.00	08/29/2005 19:48	
cis-1,2-Dichloroethene	ND	0.50	ug/L	1.00	08/29/2005 19:48	
1,1-Dichloroethane	ND	0.50	ug/L	1.00	08/29/2005 19:48	
Chloroform	ND	0.50	ug/L	1.00	08/29/2005 19:48	
1,1,1-Trichloroethane	ND	0.50	ug/L	1.00	08/29/2005 19:48	
Carbon tetrachloride	ND	0.50	ug/L	1.00	08/29/2005 19:48	
1,2-Dichloroethane	ND	0.50	ug/L	1.00	08/29/2005 19:48	
Trichloroethene	0.62	0.50	ug/L	1.00	08/29/2005 19:48	
1,2-Dichloropropane	ND	0.50	ug/L	1.00	08/29/2005 19:48	
Bromodichloromethane	ND	0.50	ug/L	1.00	08/29/2005 19:48	
trans-1,3-Dichloropropene	ND	0.50	ug/L	1.00	08/29/2005 19:48	
cis-1,3-Dichloropropene	ND	0.50	ug/L	1.00	08/29/2005 19:48	
1,1,2-Trichloroethane	ND	0.50	ug/L	1.00	08/29/2005 19:48	
Tetrachloroethene	36	0.50	ug/L	1.00	08/29/2005 19:48	
Dibromochloromethane	ND	0.50	ug/L	1.00	08/29/2005 19:48	
Chlorobenzene	ND	0.50	ug/L	1.00	08/29/2005 19:48	
Bromoform	ND	2.0	ug/L	1.00	08/29/2005 19:48	
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1.00	08/29/2005 19:48	
1,3-Dichlorobenzene	ND	0.50	ug/L	1.00	08/29/2005 19:48	
1,4-Dichlorobenzene	ND	0.50	ug/L	1.00	08/29/2005 19:48	
1,2-Dichlorobenzene	ND	0.50	ug/L	1.00	08/29/2005 19:48	
Trichlorotrifluoroethane	ND	0.50	ug/L	1.00	08/29/2005 19:48	
Chloromethane	ND	1.0	ug/L	1.00	08/29/2005 19:48	

Halogenated Volatile Organic Compounds by 8021B/8260B

Blaine Tech Services, Inc.

Attn.: Leon Gearhart

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

Project: BTS#050816-MD4
97109122

Received: 08/17/2005 15:55

Site: 2001 Fruitvale Ave., Oakland

Prep(s): 5030B | Test(s): 8260B
Sample ID: MW-1 | Lab ID: 2005-08-0535-1
Sampled: 08/16/2005 15:40 | Extracted: 8/29/2005 19:48
Matrix: Water | QC Batch#: 2005/08/29-01.06

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Bromomethane	ND	1.0	ug/L	1.00	08/29/2005 19:48	
Surrogate(s)						
4-Bromofluorobenzene	99.3	79-118	%	1.00	08/29/2005 19:48	
1,2-Dichloroethane-d4	105.8	78-117	%	1.00	08/29/2005 19:48	
Toluene-d8	106.7	77-121	%	1.00	08/29/2005 19:48	

Halogenated Volatile Organic Compounds by 8021B/8260B

Blaine Tech Services, Inc.

Attn.: Leon Gearhart

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

Project: BTS#050816-MD4
97109122

Received: 08/17/2005 15:55

Site: 2001 Fruitvale Ave., Oakland

Batch QC Report

Prep(s): 5030B — Test(s): 8260B

Method Blank — Water — QC Batch # 2005/08/29-01.06

MB 2005/08/29-01.06-003 — Date Extracted: 08/29/2005 10:57

Compound	Conc.	RL	Unit	Analyzed	Flag
Dichlorodifluoromethane	ND	1.0	ug/L	08/29/2005 10:57	
Vinyl chloride	ND	0.5	ug/L	08/29/2005 10:57	
Chloroethane	ND	1.0	ug/L	08/29/2005 10:57	
Trichlorofluoromethane	ND	1.0	ug/L	08/29/2005 10:57	
1,1-Dichloroethene	ND	0.5	ug/L	08/29/2005 10:57	
Methylene chloride	ND	5.0	ug/L	08/29/2005 10:57	
trans-1,2-Dichloroethene	ND	0.5	ug/L	08/29/2005 10:57	
cis-1,2-Dichloroethene	ND	0.5	ug/L	08/29/2005 10:57	
1,1-Dichloroethane	ND	0.5	ug/L	08/29/2005 10:57	
Chloroform	ND	0.5	ug/L	08/29/2005 10:57	
1,1,1-Trichloroethane	ND	0.5	ug/L	08/29/2005 10:57	
Carbon tetrachloride	ND	0.5	ug/L	08/29/2005 10:57	
1,2-Dichloroethane	ND	0.5	ug/L	08/29/2005 10:57	
Trichloroethene	ND	0.5	ug/L	08/29/2005 10:57	
1,2-Dichloropropane	ND	0.5	ug/L	08/29/2005 10:57	
Bromodichloromethane	ND	0.5	ug/L	08/29/2005 10:57	
trans-1,3-Dichloropropene	ND	0.5	ug/L	08/29/2005 10:57	
cis-1,3-Dichloropropene	ND	0.5	ug/L	08/29/2005 10:57	
1,1,2-Trichloroethane	ND	0.5	ug/L	08/29/2005 10:57	
Tetrachloroethene	ND	0.5	ug/L	08/29/2005 10:57	
Dibromochloromethane	ND	0.5	ug/L	08/29/2005 10:57	
Chlorobenzene	ND	0.5	ug/L	08/29/2005 10:57	
Bromoform	ND	2.0	ug/L	08/29/2005 10:57	
1,1,2,2-Tetrachloroethane	ND	0.5	ug/L	08/29/2005 10:57	
1,3-Dichlorobenzene	ND	0.5	ug/L	08/29/2005 10:57	
1,4-Dichlorobenzene	ND	0.5	ug/L	08/29/2005 10:57	
1,2-Dichlorobenzene	ND	0.5	ug/L	08/29/2005 10:57	
Trichlorotrifluoroethane	ND	0.5	ug/L	08/29/2005 10:57	
Chloromethane	ND	1.0	ug/L	08/29/2005 10:57	

Halogenated Volatile Organic Compounds by 8021B/8260B

Blaine Tech Services, Inc.

Attn.: Leon Gearhart

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

Project: BTS#050816-MD4
97109122

Received: 08/17/2005 15:55

Site: 2001 Fruitvale Ave., Oakland

Batch QC Report

Prep(s): 5030B — Test(s): 8260B

Method Blank — Water — QC Batch #: 2005/08/29-01.06

MB: 2005/08/29-01.06-003 — Date Extracted: 08/29/2005 10:57

Compound	Conc.	RL	Unit	Analyzed	Flag
Bromomethane	ND	1.0	ug/L	08/29/2005 10:57	
4-Bromofluorobenzene	103.6	79-118	%	08/29/2005 10:57	
1,2-Dichloroethane-d4	97.0	78-117	%	08/29/2005 10:57	
Toluene-d8	105.2	77-121	%	08/29/2005 10:57	

Halogenated Volatile Organic Compounds by 8021B/8260B

Blaine Tech Services, Inc.

Attn.: Leon Gearhart

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

Project: BTS#050816-MD4
97109122

Received: 08/17/2005 15:55

Site: 2001 Fruitvale Ave., Oakland

Batch QC Report

Prep(s): 5030B Test(s): 8260B

Laboratory Control Spike Water QC Batch # 2005/08/29-01.06

LCS: 2005/08/29-01.06-002 Extracted: 08/29/2005 Analyzed: 08/29/2005 10:22

LCSD:

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
1,1-Dichloroethene	16.0		20.0	80.0			65-125	20		
Trichloroethene	16.8		20.0	84.0			74-134	20		
Chlorobenzene	17.3		20.0	86.5			61-121	20		
Surrogates(s)										
4-Bromofluorobenzene	523		500	104.6			79-118			
1,2-Dichloroethane-d4	492		500	98.4			78-117			
Toluene-d8	525		500	105.0			77-121			

Halogenated Volatile Organic Compounds by 8021B/8260B

Blaine Tech Services, Inc.

Attn.: Leon Gearhart

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

Project: BTS#050816-MD4
97109122

Received: 08/17/2005 15:55

Site: 2001 Fruitvale Ave., Oakland

Batch QC Report

Prep(s): 5030B Test(s): 8260B

Matrix Spike (MS / MSD) Water QC Batch #: 2005/08/29-01.06

MS/MSD Lab ID: 2005-08-0528 - 011

MS: 2005/08/29-01.06-009 Extracted: 08/29/2005 Analyzed: 08/29/2005 14:31

Dilution: 4.00

MSD: 2005/08/29-01.06-010 Extracted: 08/29/2005 Analyzed: 08/29/2005 15:06

Dilution: 4.00

Compound	Conc. ug/L			Spk.Level	Recovery %			Limits %		Flags	
	MS	MSD	Sample	ug/L	MS	MSD	RPD	Rec.	RPD	MS	MSD
1,1-Dichloroethene	90.2	92.5	23.7	80.0	83.1	86.0	3.4	65-125	20		
Trichloroethene	263	260	182	80.0	101.3	97.5	3.8	74-134	20		
Chlorobenzene	70.8	72.1	ND	80.0	88.5	90.1	1.8	61-121	20		
Surrogate(s)											
4-Bromofluorobenzene	505	505		500	100.9	101.0		79-118			
1,2-Dichloroethane-d4	508	528		500	101.7	105.7		78-117			
Toluene-d8	537	536		500	107.5	107.2		77-121			

LAB: SPL

Lab Identification (if necessary):

Address:

City, State, Zip:

SHELL Chain Of Custody Record

117785

Shell Project Manager to be invoiced:

☑ SCIENCE & ENGINEERING

☐ TECHNICAL SERVICES

☐ CRMT HOUSTON

Denis Brown

2005-04-0535

INCIDENT NUMBER (S&E ONLY): 9 7 1 0 9 1 2 2

SAP or CRMT NUMBER (TS/CRMT):

DATE: 8/16/05

PAGE: 1 of 1

SAMPLING COMPANY: Blaine Tech Services	LOG CODE: BTSS	SITE ADDRESS (Street and City): 2001 Fruitvale Ave., Oakland	GLOBAL ID NO.: T0600102236
ADDRESS: 1680 Rogers Avenue, San Jose, CA 95112		EDF DELIVERABLE TO (Responsible Party or Designee): Ana Friel	PHONE NO.: (707) 268-3812
E-MAIL: sonomaedf@cambria-env.com	CONSULTANT PROJECT NO.: 052816-MW4 BTS#		
PROJECT CONTACT (Hardcopy or PDF Report to): Leon Gearhart		SAMPLER NAME(S) (Print): John DeJong	LAB USE ONLY
TELEPHONE: 408-573-0555	FAX: 408-573-7771	E-MAIL: lgearhart@blainetech.com	

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

☐ LA - RWQCB REPORT FORMAT ☐ UST AGENCY: ____

GC/MS MTBE CONFIRMATION: HIGHEST ____ HIGHEST per BORING ____ ALL ____

SPECIAL INSTRUCTIONS OR NOTES: CHECK BOX IF EDD IS NOT NEEDED ☐

REQUESTED ANALYSIS

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	TPH - Gas, Purgeable	BTEX	MTBE (8021B - 5ppb RL)	MTBE (8260B - 0.5ppb RL)	Oxygenates (5) by (8260B)	Ethanol (8260B)	Methanol	1,2-DCA (8260B)	EDB (8260B)		TPH - Diesel, Extractable (8015m)	TPH-D with silica gel clean up	Chlorinated Solvents							FIELD NOTES: Container/Preservative or PID Readings or Laboratory Notes
	MW-1	8/16/05	1540	W	3													X							

TEMPERATURE ON RECEIPT C°: 4

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
[signature]	Sample Custodian [signature]	8/16/05	1720
[signature] Sample Custodian	[signature]	8/17/05	1555
[signature] 8/17/05	[signature]	8/17/05	1850

DISTRIBUTION: White with final report, Green to File, Yellow and Pink to Client.

10/16/00 Revision

WELLHEAD INSPECTION CHECKLIST

Page ____ of ____

Date 8/2/05 Client Shell

Site Address 2007 Fruitvale, Oakland

Job Number 080802-S62 Technician Gooch

Well ID	Well Inspected - No Corrective Action Required	Water Bailed From Wellbox	Wellbox Components Cleaned	Cap Replaced	Debris Removed From Wellbox	Lock Replaced	Other Action Taken (explain below)	Well Not Inspected (explain below)
MW-2	X							

NOTES: _____

WELL GAUGING DATA

Project # 050802-552 Date 8/2/05 Client ~~SF~~ 97109122

Site 2001 Fruitvale, 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-2	4					20.84	30.29	I	

SHELL WELL MONITORING DATA SHEET

BTS #: 050802-852	Site: 9710 9122
Sampler: JOOCH	Date: 8/2/05
Well I.D.: MW-2	Well Diameter: 2 3 (4) 6 8 ____
Total Well Depth (TD): 30.29	Depth to Water (DTW): 20.84
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]: 22.73	

Purge Method: Bailer; Disposable Bailer; Positive Air Displacement; Electric Submersible (circled); Waterra; Peristaltic; Extraction Pump; Other_____

Sampling Method: (Bailer) (circled); Disposable Bailer; Extraction Port; Dedicated Tubing; Other: _____

6.1 (Gals.) X	3	= 18.3 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	radius² * 0.163

Time	Temp (°F)	pH	Cond. (mS or (µS))	Turbidity (NTUs)	Gals. Removed	Observations
1233	71.6	7.5	492	299	6.1	purged
1234	70.8	7.3	465	254	12.2	"
1236	70.6	7.3	461	185	18.5	"

Did well dewater? Yes (No) Gallons actually evacuated: 18.5

Sampling Date: 8/2/05 Sampling Time: 1240 Depth to Water: 21.41

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

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

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	

Repair Data Sheet

Client Shell Date 8-17-05

Site Address 2001 Fruitvale Ave, Oakland

Job Number 050817AA4 Technician Andrew Attalla P.

Inspection Point (Well ID or description of location)	Well Inspected, Cleaned, Labeled - No Further Corrective Action Required	Replaced Cap	Replaced Lock	Replaced Lid Seal	Check Indicates deficiency: Casing	Annular Seal	Tabs / Bolts	Box Structure	Apron	Trip Hazard	Below Grade	Other Deficiency	Lid Not Securable By Design (List Type)	Well Not Inspected (explain in notes)	Deficiency Logged on Repair Order	Deficiency Remains Uncorrected/Logged on Site Inspection Checklist	Partial Repair Completed/Outstanding Deficiency Logged on Repair Order	All Repairs Completed
mw-1	X																	
Notes:																		
mw-2	X																	
Notes:																		
mw-3	X																	
Notes:																		
Notes:																		
Notes:																		
Notes:																		

WELL GAUGING DATA

Project # 050816-MJ4 Date 8/16/05 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					21.63	29.57	TOC	

WELLHEAD INSPECTION CHECKLIST

Page ____ of ____

Date 8/16/05 Client Shell

Site Address 2001 Fruitvale Ave, Oakland

Job Number 050816-MM-01 Technician MM

Well ID	Well Inspected - No Corrective Action Required	Water Bailed From Wellbox	Wellbox Components Cleaned	Cap Replaced	Debris Removed From Wellbox	Lock Replaced	Other Action Taken (explain below)	Well Not Inspected (explain below)
MW-1	✓							

NOTES: _____

SHELL WELL MONITORING DATA SHEET

BTS #: 050816-MD4	Site: 97109122
Sampler: MM	Date: 8/16/05
Well I.D.: MW-1	Well Diameter: 2 3 (4) 6 8 ___
Total Well Depth (TD): 29.57	Depth to Water (DTW): 21.63
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]: 23.22	

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: _____

5.2 (Gals.) X 3 = 15.6 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	radius² * 0.163

Time	Temp (°F)	pH	Cond. (mS or (µS))	Turbidity (NTUs)	Gals. Removed	Observations
1533	~~71.6~~ 73	7.3	512	74	5.5	clear
1534	71.8	7.0	472	75	11	"
1535	69.4	6.9	471	53	16	cloudy

Did well dewater? Yes (No) Gallons actually evacuated: 16

Sampling Date: 8/16/05 Sampling Time: 1540 Depth to Water: 21.93

Sample I.D.: MW-1 Laboratory: (STL) Other_____

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

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