CONESTOGA-ROVERS & ASSOCIATES

5900 Hollis Street, Suite A
Emeryville, California 94608
Telephone: (510) 420-0700 Fax: (510) 420-9170
www.CRAworld.com

TRANSMITTAL

DATE: February 18, 2009

REFERENCE NO.: 240414

PROJECT NAME: 540 Hegenberger Road, Oakland

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

RECEIVED
2:30 pm, Feb 23, 2009
Alameda County
Environmental Health

Please find enclosed:
- ☐ Draft
- ☐ Originals
- ☐ Prints
- ☒ Final
- ☐ Other

Sent via:
- ☐ Mail
- ☐ Overnight Courier
- ☐ Same Day Courier
- ☒ Other GeoTracker and Alameda County FTP

QUANTITY	DESCRIPTION
1	Groundwater Monitoring Report - Fourth Quarter 2008

- ☐ As Requested
- ☐ For Your Use
- ☒ For Review and Comment
- ☐
- ☐

COMMENTS:
If you have any questions regarding the content of this document, please contact Peter Schaefer at (510) 420-3319.

Copy to: Denis Brown
SF Data Room

Completed by: Peter Schaefer [Please Print]

Signed: Aubrey Cool

Filing: **Correspondence File**

Denis L. Brown
Shell Oil Products US
HSE - Environmental Services
20945 S. Wilmington Ave.
Carson, CA 90810-1039
Tel (707) 865 0251
Fax (707) 865 2542
Email denis.l.brown@shell.com

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

Re: Shell-branded Service Station
540 Hegenberger Road
Oakland, California
SAP Code 135694
Incident No. 98995752
ACHCSA Case No. RO0000223

Dear Mr. Wickham:

The attached document is provided for your review and comment. Upon information and belief, I declare, under penalty of perjury, that the information contained in the attached document is true and correct.

If you have any questions or concerns, please call me at (707) 865-0251.

Sincerely,

Denis L. Brown
Project Manager

GROUNDWATER MONITORING REPORT - FOURTH QUARTER 2008

SHELL-BRANDED SERVICE STATION
540 HEGENBERGER ROAD
OAKLAND, CALIFORNIA

SAP CODE 135694
INCIDENT NO. 98995752
AGENCY NO. RO0000223

Prepared by:
Conestoga-Rovers & Associates

5900 Hollis Street, Suite A
Emeryville, California
U.S.A. 94608

Office: (510) 420-0700
Fax: (510) 420-9170

web: http:\\www.CRAworld.com

FEBRUARY 18, 2009
REF. NO. 240414 (2)
This report is printed on recycled paper.

TABLE OF CONTENTS

		Page
1.0	INTRODUCTION	1
	1.1 SITE INFORMATION	1
2.0	SITE ACTIVITIES, FINDINGS, AND DISCUSSION	2
	2.1 CURRENT QUARTER'S ACTIVITIES	2
	2.2 CURRENT QUARTER'S FINDINGS	2
	2.3 PROPOSED ACTIVITIES FOR NEXT QUARTER	2

LIST OF FIGURES
(Following Text)

FIGURE 1	VICINITY MAP
FIGURE 2	GROUNDWATER CONTOUR AND CHEMICAL CONCENTRATION MAP

LIST OF APPENDICES

APPENDIX A	BLAINE TECH SERVICES, INC. – GROUNDWATER MONITORING REPORT

1.0 INTRODUCTION

Conestoga-Rovers & Associates (CRA) prepared this report on behalf of Equilon Enterprises LLC dba Shell Oil Products US (Shell) in accordance with the quarterly reporting requirements of 23 CCR 2652d.

1.1 SITE INFORMATION

Site Address	540 Hegenberger Road, Oakland
Site Use	Shell-branded Service Station
Shell Project Manager	Denis Brown
CRA Project Manager	Peter Schaefer
Lead Agency and Contact	ACHCSA, Jerry Wickham
Agency Case No.	RO0000223
Shell SAP Code	135694
Shell Incident No.	98995752

Date of most recent agency correspondence January 11, 2007.

2.0 SITE ACTIVITIES, FINDINGS, AND DISCUSSION

2.1 CURRENT QUARTER'S ACTIVITIES

Blaine Tech Services, Inc. (Blaine) gauged and sampled the wells according to the established monitoring program for this site.

CRA prepared a vicinity map (Figure 1) and a groundwater contour and chemical concentration map (Figure 2). Blaine's report, presenting the analytical data, is included in Appendix A.

2.2 CURRENT QUARTER'S FINDINGS

Groundwater Flow Direction	Variable
Hydraulic Gradient	Variable
Depth to Water	3.69 to 7.55 feet below top of well casing

2.3 PROPOSED ACTIVITIES FOR NEXT QUARTER

Blaine will gauge and sample wells according to the established monitoring program for this site.

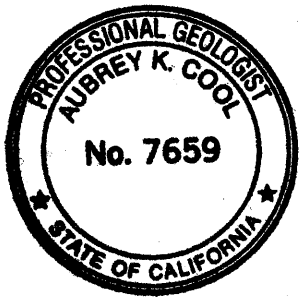
All of Which is Respectfully Submitted,
CONESTOGA-ROVERS & ASSOCIATES

for:

Peter Schaefer, CHG, CEG

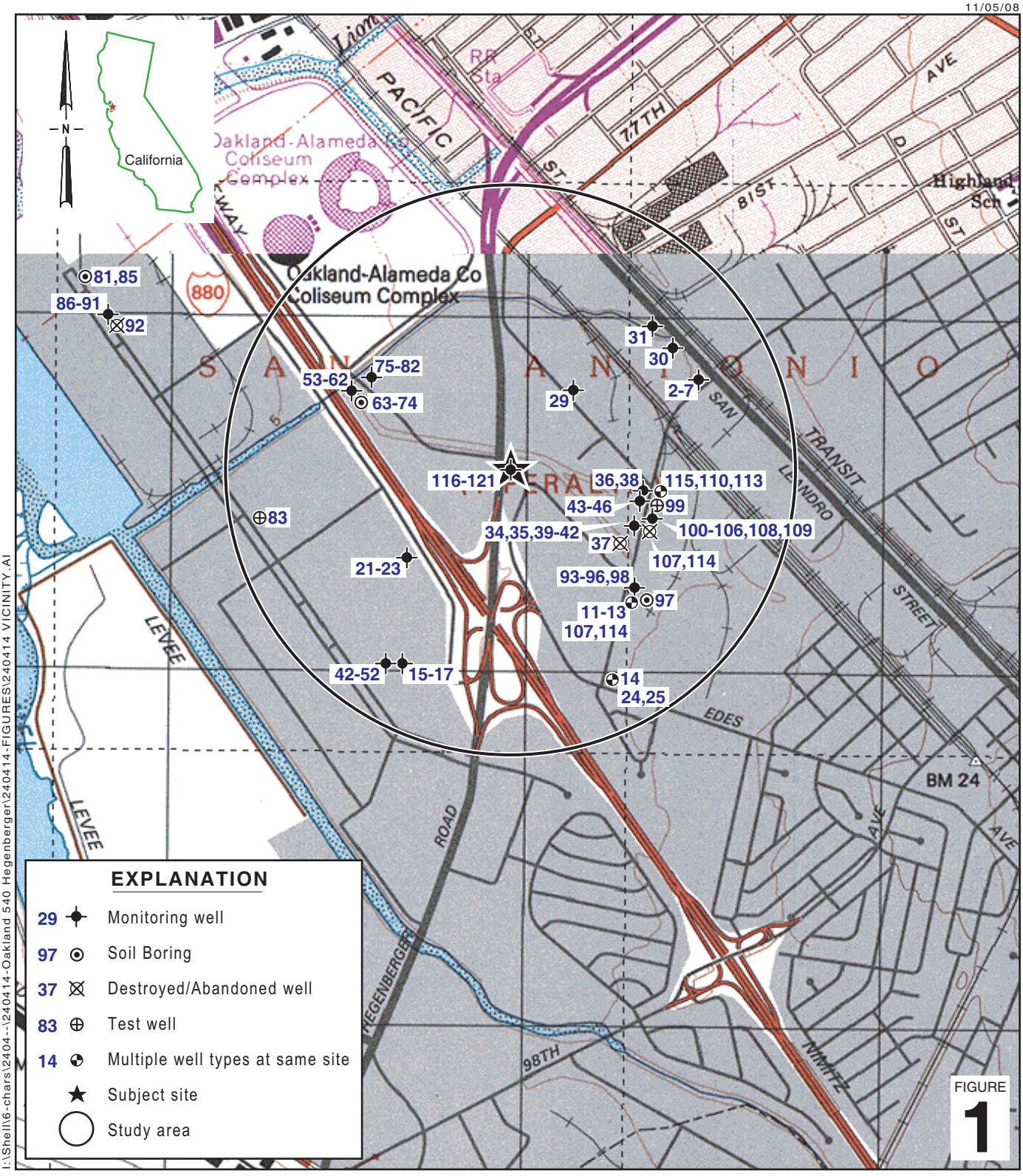
Aubrey K. Cool

Aubrey K. Cool, PG



FIGURES

11/05/08



I:\Shell\6-chars\2404-\240414-Oakland 540 Hegenberger\240414-FIGURES\240414 VICINITY.AI

0 1/8 1/4 1/2 1

SCALE 1:1/4 MILES

FIGURE 1

Shell-branded Service Station

540 Hegenberger Road

Oakland, California

CONESTOGA-ROVERS & ASSOCIATES

Vicinity Map

02/18/09

Groundwater Contour and Chemical Concentration Map

December 16, 2008

EXPLANATION

- MW-2 — Monitoring well location (Shell)
- BW-A — Tank backfill well location (Shell)
- MW-1 — Groundwater extraction well location (Shell)
- MW-1 — Monitoring well location (ARCO)
- RW-1 — Recovery well location (ARCO)
- MW-2 — Destroyed well location (ARCO)
- Sanitary sewer main (SS)
- Water line (W)
- Telephone line (T)
- Storm drain (SD)
- Flow direction
- FH — Fire hydrant
- FL = 5.0' — Flowline elevation (msl)
- INF • — GWE sample location
- XX.XX — Groundwater elevation contour, in feet above msl, dashed where inferred.

Well
ELEV
Benzene
MTBE

- Well designation
- Groundwater elevation, in feet above msl
- Benzene and MTBE concentrations are in micrograms per liter

Notes:
ND = Not detected

HEGENBERGER ROAD
EDES AVENUE
COLISEUM WAY
ENTERPRISE WAY
Canal

Shell Station
540 Hegenberger

ARCO Station #4494
566 Hegenberger

MW-3 2.83 NDa 59
BW-D 4.92 ND 1.3
MW-2 1.97 ND 2.6
BW-B
MW-5 2.69 ND 4.4
MW-1 2.10 ND 190
MW-4 2.33 ND 19
BW-C
BW-A
MW-7
MW-1
MW-3
MW-2 (destroyed 12/92)
RW-1
MW-4
MW-5
MW-6

3.50 4.50 4.50 3.50 2.50 2.50

USTs
Dispensers
Dispenser Islands
canopy
building
Car Wash
Remediation piping
Remediation compound
INF EFF
SS cleanout
storage
Former W/O UST
AM/PM Mini-Mart
trash
Burger King Restaurant
Laborers' International Union
Days Inn
Jack in the Box Restaurant
PG&E
planter
sidewalk
driveway

FL = 5.0' FL = 0.14' FL = -0.63' FL = 6.0' FL = -1.80' FL = -0.45' FL = -2.0' FL = 4.81' FL = -1.0' FL = -0.8'

15" SD 18" SD 12" SD 72" SD SD (5' x 5' x 8') culvert SD-1 SD-2

8" SS 10" SS 12" SS

16" W 8" W (abandoned) W

FH T

0 20 40 80
Scale (ft)

FIGURE
2

Shell-branded Service Station
540 Hegenberger Road
Oakland, California

CONESTOGA-ROVERS & ASSOCIATES

I:\Shell\6-chars\2404--\240414-Oakland 540 Hegenberger\240414-REPORTS\240414-RPT2-4q08\240414 4QM08-GW.DWG

APPENDIX A

BLAINE TECH SERVICES, INC. – GROUNDWATER MONITORING REPORT

BLAINE
TECH SERVICES

GROUNDWATER SAMPLING SPECIALISTS
SINCE 1985

January 7, 2009

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

Fourth Quarter 2008 Groundwater Monitoring at
Shell-branded Service Station
540 Hegenberger Road
Oakland, CA

Monitoring performed on December 16, 2008

Groundwater Monitoring Report **081216-WW-2**

This report covers the routine monitoring of groundwater wells at this Shell-branded facility. In accordance with standard procedures that conform to Regional Water Quality Control Board requirements, routine field data collection includes depth to water, total well depth, thickness of any separate immiscible layer, water column volume, calculated purge volume (if applicable), elapsed evacuation time (if applicable), total volume of water removed (if applicable), and standard water parameter instrument readings. Sample material is collected, contained, stored, and transported to the laboratory in conformance with EPA standards. Purgewater (if applicable) is, likewise, collected and transported to the Martinez Refining Company.

Basic field information is presented alongside analytical values excerpted from the laboratory report in the cumulative table of **WELL CONCENTRATIONS**. The full analytical report for the most recent samples and the field data sheets are attached to this report.

At a minimum, Blaine Tech Services, Inc. field personnel are certified on completion of a forty-hour Hazardous Materials and Emergency Response training course per 29 CFR 1910.120. Field personnel are also enrolled in annual eight-hour refresher courses.

Blaine Tech Services, Inc. conducts sampling and documentation assignments of this type as an independent third party. Our activities at this site consisted of objective data and sample collection only. No interpretation of analytical results, defining of hydrological conditions or formulation of recommendations was performed.

Please call if you have any questions.

Yours truly,

Mike Ninokata
Project Manager

MN/tm

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

cc: Anni Kreml
Conestoga-Rovers & Associates
5900 Hollis Street, Suite A
Emeryville, CA 94608

WELL CONCENTRATIONS
Shell-branded Service Station
540 Hegenberger Road
Oakland, CA

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	Ethanol (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	DO Reading (ppm)
MW-1 (a)	8/26/1998	2,700	28	55	59	39	33,000	NA	NA	NA	NA	NA	NA	10.54	7.91	2.63	1.8
MW-1 (b)	8/26/1998	<1,000	22	<10	<10	<10	17,000	NA	NA	NA	NA	NA	NA	10.54	7.91	2.63	2.2
MW-1	12/28/1998	<5,000	<50.0	<50.0	<50.0	<50.0	153,000	33,000	NA	NA	NA	NA	NA	10.54	8.75	1.79	1.9
MW-1	3/29/1999	<2,000	<20.0	<20.0	<20.0	<20.0	693,000	NA	NA	NA	NA	NA	NA	10.54	8.32	2.22	2.0
MW-1	6/22/1999	20,000	<200	<200	<200	<200	150,000	NA	NA	NA	NA	NA	NA	10.54	9.05	1.49	1.7
MW-1	9/30/1999	<2,500	<25.0	<25.0	<25.0	<25.0	30,900	NA	NA	NA	NA	NA	NA	10.54	8.35	2.19	2.6
MW-1	11/19/1999	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10.54	9.58	0.96	NA
MW-1	11/24/1999	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10.54	9.65	0.89	NA
MW-1	12/2/1999	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10.54	9.55	0.99	NA
MW-1	12/10/1999	<50.0	29.7	<20.0	<20.0	<20.0	76,300	NA	NA	NA	NA	NA	NA	10.54	8.86	1.68	1.2
MW-1	3/2/2000	<2,500	<25.0	<25.0	<25.0	<25.0	27,600	NA	NA	NA	NA	NA	NA	10.54	8.83	1.71	3.2
MW-1	6/8/2000	<2,000	<20.0	<20.0	<20.0	<20.0	59,000	67,600	NA	NA	NA	NA	NA	10.54	7.78	2.76	1.9
MW-1	9/5/2000	<10,000	411	<100	<100	<100	71,100	115,000 e	NA	NA	NA	NA	NA	10.54	7.84	2.70	NA
MW-1	12/15/2000	35,600	1,310	<50.0	<50.0	<50.0	136,000	f	NA	NA	NA	NA	NA	10.54	7.65	2.89	NA
MW-1	3/9/2001	<10,000	1,390	<100	<100	<100	89,600	164,000	NA	NA	NA	NA	NA	10.54	6.44	4.10	NA
MW-1	6/27/2001	<5,000	<50	<50	<50	<50	NA	19,000	NA	NA	NA	NA	NA	10.54	8.46	2.08	NA
MW-1	9/19/2001	<5,000	<50	<50	<50	<50	NA	52,000	NA	NA	NA	NA	NA	10.54	8.10	2.44	NA
MW-1	12/31/2001	<5,000	<25	<25	<25	<25	NA	17,000	NA	NA	NA	NA	NA	10.54	7.31	3.23	NA
MW-1	3/14/2002	<20,000	<200	<200	<200	<200	NA	60,000	NA	NA	NA	NA	NA	10.54	7.68	2.86	NA
MW-1	6/25/2002	<5,000	<50	<50	<50	<50	NA	34,000	NA	NA	NA	NA	NA	10.54	8.40	2.14	NA
MW-1	9/19/2002	<2,500	<25	<25	<25	<25	NA	18,000	NA	NA	NA	NA	NA	10.52	8.58	1.94	NA
MW-1	12/12/2002	<5,000	<50	<50	<50	<50	NA	30,000	NA	NA	NA	NA	NA	10.52	8.41	2.11	NA
MW-1	1/2/2003	NA	<0.50	<0.50	<0.50	<1.0	NA	NA	NA	NA	NA	NA	NA	10.52	7.45	3.07	NA
MW-1	03/20/2003 g	3,800	<25	<25	<25	<25	5,500	NA	NA	NA	NA	NA	NA	10.52	8.21	2.31	NA
MW-1	6/23/2003	<10,000	<100	<100	<100	<200	NA	35,000	NA	NA	NA	NA	NA	10.52	9.02	1.50	NA
MW-1	9/22/2003	<5,000	<50	<50	<50	<100	NA	15,000	NA	NA	NA	NA	NA	10.52	15.74	-5.22	NA
MW-1	12/3/2003	<1,300	<13	<13	<13	<25	NA	3,600	NA	NA	NA	NA	NA	10.52	18.35 h	NA	NA
MW-1	3/18/2004	<250	<2.5	<2.5	<2.5	<5.0	NA	570	NA	NA	NA	NA	NA	10.52	7.32	3.20	NA

WELL CONCENTRATIONS
Shell-branded Service Station
540 Hegenberger Road
Oakland, CA

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	Ethanol (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	DO Reading (ppm)
MW-1	5/25/2004	<250	<2.5	<2.5	<2.5	<5.0	NA	250	NA	NA	NA	NA	NA	10.52	6.80	3.72	NA
MW-1	9/22/2004	<2,000	<20	<20	<20	<40	NA	170	<80	<80	<80	20000	<2,000	10.52	6.55	3.97	NA
MW-1	12/22/2004	<500	<5.0	<5.0	<5.0	<10	NA	57	NA	NA	NA	NA	NA	10.52	6.44	4.08	NA
MW-1	2/23/2005	<2,000	<20	<20	<20	<40	NA	110	NA	NA	NA	NA	NA	10.52	5.79	4.73	NA
MW-1	6/27/2005	<250	<2.5	<2.5	<2.5	<5.0	NA	16	NA	NA	NA	NA	NA	10.52	6.43	4.09	NA
MW-1	8/31/2005	<250	<2.5	<2.5	<2.5	<5.0	NA	32	<10	<10	<10	4000	<250	9.27	6.38	2.89	NA
MW-1	12/14/2005	<50.0	<0.500	2.03	<0.500	<0.500	NA	30.4	NA	NA	NA	NA	NA	9.27	6.46	2.81	NA
MW-1	3/8/2006	417	1.87	<0.500	<0.500	0.830	NA	17.8	NA	NA	NA	3380	NA	9.27	6.21	3.06	NA
MW-1	6/14/2006	728	282	1.61	4.16	9.82	NA	109	NA	NA	NA	2950	NA	9.27	6.86	2.41	NA
MW-1	9/27/2006	817	<0.500	<0.500	<0.500	<0.500	NA	122	<0.500	<0.500	<0.500	1420	<50.0	9.27	7.70	1.57	NA
MW-1	11/30/2006	150	<0.50	<0.50	<0.50	<1.0	NA	54	NA	NA	NA	3200	NA	9.27	7.59	1.68	NA
MW-1	3/6/2007	150 k	<0.50 k	<1.0 k	<0.50 k	<1.0 k	NA	40 k	NA	NA	NA	3,600 k	NA	9.27	6.38	2.89	NA
MW-1	6/11/2007	340	<5.0	<10	<10	<10	NA	23	NA	NA	NA	14000	NA	9.27	7.88	1.39	NA
MW-1	9/26/2007	190 m,n	<2.5	<5.0	<5.0	<5.0	NA	490	<10	<10	<10	460	<500	9.27	7.03	2.24	NA
MW-1	12/28/2007	<50 m	<0.50	<1.0	<1.0	<1.0	NA	120	NA	NA	NA	710	NA	9.27	7.40	1.87	NA
MW-1	3/31/2008	360	<0.50	<1.0	<1.0	<1.0	NA	350	NA	NA	NA	890	NA	9.27	7.41	1.86	NA
MW-1	6/23/2008	280	<2.5	<5.0	<5.0	<5.0	NA	180	NA	NA	NA	620	NA	9.27	6.80	2.47	NA
MW-1	9/22/2008	90	<0.50	<1.0	<1.0	<1.0	NA	6.1	<2.0	<2.0	<2.0	1400	<100	9.27	7.18	2.09	NA
MW-1	**12/16/2008**	**NA**	**<0.50**	**<1.0**	**<1.0**	**<1.0**	**NA**	**190**	**NA**	**NA**	**NA**	**820**	**NA**	**9.27**	**7.17**	**2.10**	**NA**
MW-2 (a)	8/26/1998	<250	3.2	<2.5	<2.5	<2.5	4,000	NA	NA	NA	NA	NA	NA	9.21	7.18	2.03	2.4
MW-2 (b)	8/26/1998	<250	3.1	<2.5	<2.5	<2.5	4,800	NA	NA	NA	NA	NA	NA	9.21	7.18	2.03	2.7
MW-2 (D)(b)	8/26/1998	<250	4.8	<2.5	<2.5	6.0	3,300	NA	NA	NA	NA	NA	NA	9.21	7.18	2.03	2.7
MW-2	12/28/1998	<50.0	<0.500	<0.500	<0.500	<0.500	28.8	NA	NA	NA	NA	NA	NA	9.21	7.34	1.87	2.1
MW-2	3/29/1999	235	<0.500	<0.500	<0.500	3.4	101	NA	NA	NA	NA	NA	NA	9.21	6.85	2.36	2.0
MW-2	6/22/1999	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	NA	NA	NA	NA	NA	9.21	7.10	2.11	1.9
MW-2	9/30/1999	<50.0	<0.500	<0.500	<0.500	<0.500	1,700	NA	NA	NA	NA	NA	NA	9.21	8.06	1.15	1.0
MW-2	12/10/1999	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	NA	NA	NA	NA	NA	NA	9.21	8.61	0.60	1.4

WELL CONCENTRATIONS
Shell-branded Service Station
540 Hegenberger Road
Oakland, CA

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	Ethanol (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	DO Reading (ppm)
MW-2	3/2/2000	<500	11.5	<5.00	<5.00	<5.00	5,280	NA	NA	NA	NA	NA	NA	9.21	6.33	2.88	0.4
MW-2	6/8/2000	<50.0	0.670	<0.500	<0.500	<0.500	3,160	NA	NA	NA	NA	NA	NA	9.21	6.87	2.34	1.6
MW-2	9/5/2000	<1,000	<10.0	<10.0	<10.0	<10.0	9,600	NA	NA	NA	NA	NA	NA	9.21	6.79	2.42	NA
MW-2	12/15/2000	<200	<2.00	<2.00	<2.00	<2.00	6,320	NA	NA	NA	NA	NA	NA	9.21	6.76	2.45	NA
MW-2	3/9/2001	<500	<5.00	<5.00	<5.00	<5.00	17,200	NA	NA	NA	NA	NA	NA	9.21	6.28	2.93	NA
MW-2	6/27/2001	<100	1.4	<1.0	<1.0	<2.0	NA	470	NA	NA	NA	NA	NA	9.21	7.12	2.09	NA
MW-2	9/19/2001	<50	<0.50	<0.50	<0.50	<0.50	NA	330	NA	NA	NA	NA	NA	9.21	7.17	2.04	NA
MW-2	12/31/2001	<100	<1.0	<1.0	<1.0	<1.0	NA	420	NA	NA	NA	NA	NA	9.21	6.24	2.97	NA
MW-2	3/14/2002	<250	4.5	3.3	<2.5	<2.5	NA	1,600	NA	NA	NA	NA	NA	9.21	6.72	2.49	NA
MW-2	6/25/2002	<50	<0.50	<0.50	<0.50	<0.50	NA	110	NA	NA	NA	NA	NA	9.21	7.23	1.98	NA
MW-2	9/19/2002	<50	<0.50	<0.50	<0.50	<0.50	NA	90	NA	NA	NA	NA	NA	9.19	7.48	1.71	NA
MW-2	12/12/2002	<50	<0.50	<0.50	<0.50	<0.50	NA	170	NA	NA	NA	NA	NA	9.19	7.33	1.86	NA
MW-2	03/20/2003 g	56	<0.50	<0.50	<0.50	<0.50	58	NA	NA	NA	NA	NA	NA	9.19	7.65	1.54	NA
MW-2	6/23/2003	<50	<0.50	<0.50	<0.50	<1.0	NA	44	NA	NA	NA	NA	NA	9.19	8.72	0.47	NA
MW-2	9/22/2003	<250	<2.5	<2.5	<2.5	<5.0	NA	37	NA	NA	NA	NA	NA	9.19	8.84	0.35	NA
MW-2	12/3/2003	<250	<2.5	<2.5	<2.5	<5.0	NA	99	NA	NA	NA	NA	NA	9.19	8.95	0.24	NA
MW-2	3/18/2004	<50	<0.50	<0.50	<0.50	<1.0	NA	24	NA	NA	NA	NA	NA	9.19	7.19	2.00	NA
MW-2	5/25/2004	<50	<0.50	<0.50	<0.50	<1.0	NA	53	NA	NA	NA	NA	NA	9.19	8.40	0.79	NA
MW-2	9/22/2004	<50	<0.50	<0.50	<0.50	<1.0	NA	24	<2.0	<2.0	<2.0	100	<50	9.19	7.08	2.11	NA
MW-2	12/22/2004	<50	<0.50	<0.50	<0.50	<1.0	NA	39	NA	NA	NA	NA	NA	9.19	7.09	2.10	NA
MW-2	2/23/2005	<50	<0.50	<0.50	<0.50	<1.0	NA	38	NA	NA	NA	NA	NA	9.19	6.50	2.69	NA
MW-2	6/27/2005	<50	<0.50	<0.50	<0.50	<1.0	NA	28	NA	NA	NA	NA	NA	9.19	7.17	2.02	NA
MW-2	8/31/2005	<50	<0.50	<0.50	<0.50	<1.0	NA	5.5	<2.0	<2.0	<2.0	19	<50	9.19	7.21	1.98	NA
MW-2	12/14/2005	<50.0	<0.500	2.16	<0.500	<0.500	NA	5.33	NA	NA	NA	NA	NA	9.19	7.13	2.06	NA
MW-2	3/8/2006	<50.0	<0.500	<0.500	<0.500	0.560	NA	18.8	NA	NA	NA	<10.0	NA	9.19	6.02	3.17	NA
MW-2	6/14/2006	<50.0	<0.500	0.680	<0.500	<0.500	NA	2.17	NA	NA	NA	<10.0	NA	9.19	7.19	2.00	NA
MW-2	9/27/2006	276	<0.500	<0.500	<0.500	<0.500	NA	5.29	<0.500	<0.500	<0.500	30	<50.0	9.19	7.45	1.74	NA
MW-2	11/30/2006	<50	<0.50	<0.50	<0.50	<1.0	NA	<0.50	NA	NA	NA	<5.0	NA	9.19	7.30	1.89	NA

WELL CONCENTRATIONS
Shell-branded Service Station
540 Hegenberger Road
Oakland, CA

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	Ethanol (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	DO Reading (ppm)
MW-2	3/6/2007	<50 k	<0.50 k	<1.0 k	<0.50 k	<1.0 k	NA	0.87 k	NA	NA	NA	<5.0 k	NA	9.19	6.70	2.49	NA
MW-2	6/11/2007	<50	<0.50	<1.0	<1.0	<1.0	NA	<1.0	NA	NA	NA	<10	NA	9.19	7.14	2.05	NA
MW-2	9/26/2007	<50 m	<0.50	<1.0	<1.0	<1.0	NA	2.1	<2.0	<2.0	<2.0	<10	<100	9.19	7.34	1.85	NA
MW-2	12/28/2007	<50 m	<0.50	<1.0	<1.0	<1.0	NA	0.57 l	NA	NA	NA	<10	NA	9.19	6.79	2.40	NA
MW-2	3/31/2008	<50	<0.50	<1.0	<1.0	<1.0	NA	1.4	NA	NA	NA	<10	NA	9.19	7.09	2.10	NA
MW-2	6/23/2008	<50	<0.50	<1.0	<1.0	<1.0	NA	1.5	NA	NA	NA	<10	NA	9.19	7.00	2.19	NA
MW-2	9/22/2008	<50	<0.50	<1.0	<1.0	<1.0	NA	<1.0	<2.0	<2.0	<2.0	<10	<100	9.19	7.28	1.91	NA
MW-2	**12/16/2008**	**NA**	**<0.50**	**<1.0**	**<1.0**	**<1.0**	**NA**	**2.6**	**NA**	**NA**	**NA**	**<10**	**NA**	**9.19**	**7.22**	**1.97**	**NA**
MW-3 (a)	8/26/1998	2,300	180	330	<0.50	420	44,000	NA	NA	NA	NA	NA	NA	9.45	6.52	2.93	1.8
MW-3 (b)	8/26/1998	<50	<0.50	<0.50	<0.50	<0.50	52,000	75,000	NA	NA	NA	NA	NA	9.45	6.52	2.93	2.3
MW-3	12/28/1998	<5,00	139	<50.0	<50.0	<50.0	15,100	NA	NA	NA	NA	NA	NA	9.45	6.73	2.72	1.7
MW-3	3/29/1999	52,500	5,500	6,900	1,360	6,250	508,000	630,000 c	NA	NA	NA	NA	NA	9.45	6.21	3.24	2.1
MW-3	6/22/1999	58,000	6,600	9,850	1,640	6,950	677,000	653,000	NA	NA	NA	NA	NA	9.45	7.00	2.45	1.3
MW-3	9/30/1999	4,360	121	122	36.1	647	33,700	35,600	NA	NA	NA	NA	NA	9.45	6.84	2.61	0.6
MW-3	11/19/1999	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9.45	7.93	1.52	NA
MW-3	11/24/1999	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9.45	8.25	1.20	NA
MW-3	12/2/1999	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9.45	7.55	1.90	NA
MW-3	12/10/1999	4,220	973	26.3	273	584	88,200	NA	NA	NA	NA	NA	NA	9.45	7.28	2.17	2.5
MW-3	3/2/2000	65,300	5,210	10,300	2,650	15,100	56,800	59,800 e	NA	NA	NA	NA	NA	9.45	5.87	3.58	d
MW-3	6/8/2000	72,700	3,570	10,200	2,100	13,400	44,400	NA	NA	NA	NA	NA	NA	9.45	5.32	4.13	1.1
MW-3	9/5/2000	26,100	959	2,910	1,090	5,640	24,000	NA	NA	NA	NA	NA	NA	9.45	5.60	3.85	NA
MW-3	12/15/2000	5,190	438	8.39	483	530	19,100	11,800 f	NA	NA	NA	NA	NA	9.45	6.27	3.18	NA
MW-3	3/9/2001	5,880	472	42.2	392	1,290	41,800	NA	NA	NA	NA	NA	NA	9.45	5.71	3.74	NA
MW-3	6/27/2001	9,100	330	79	140	1,600	NA	31,000	NA	NA	NA	NA	NA	9.45	6.88	2.57	NA
MW-3	9/19/2001	790	14	18	17	67	NA	8,100	NA	NA	NA	NA	NA	9.45	6.70	2.75	NA
MW-3	12/31/2001	<5,000	220	<50	86	<50	NA	22,000	NA	NA	NA	NA	NA	9.45	5.92	3.53	NA
MW-3	3/14/2002	<2,500	<25	<25	<25	<25	NA	12,000	NA	NA	NA	NA	NA	9.45	6.25	3.20	NA

WELL CONCENTRATIONS
Shell-branded Service Station
540 Hegenberger Road
Oakland, CA

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	Ethanol (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	DO Reading (ppm)
MW-3	6/25/2002	<10,000	160	<100	<100	<100	NA	42,000	NA	NA	NA	NA	NA	9.45	6.65	2.80	NA
MW-3	9/19/2002	<10,000	650	<100	280	360	NA	84,000	NA	NA	NA	NA	NA	9.45	6.51	2.94	NA
MW-3	12/12/2002	<10,000	170	<100	<100	<100	NA	45,000	NA	NA	NA	NA	NA	9.45	6.97	2.48	NA
MW-3	1/2/2003	NA	59	<5.0	5.3	<10	NA	NA	NA	NA	NA	NA	NA	9.45	5.90	3.55	NA
MW-3	03/20/2003 g	5,100	<50	<50	<50	<50	4,400	NA	NA	NA	NA	NA	NA	9.45	6.87	2.58	NA
MW-3	6/23/2003	<5,000	<50	<50	<50	<100	NA	8,100	NA	NA	NA	NA	NA	9.45	13.80	-4.35	NA
MW-3	9/22/2003	<250	<2.5	4.6	<2.5	<5.0	NA	470	NA	NA	NA	NA	NA	9.45	6.31	3.14	NA
MW-3	12/3/2003	<50	<0.50	<0.50	<0.50	<1.0	NA	180	NA	NA	NA	NA	NA	9.45	14.77 h	NA	NA
MW-3	3/18/2004	<1,000	14	<10	<10	<20	NA	2,500	NA	NA	NA	NA	NA	9.45	6.07	3.38	NA
MW-3	5/25/2004	3,900	<10	66	23	470	NA	140	NA	NA	NA	NA	NA	9.45	14.63	-5.18	NA
MW-3	9/22/2004	<10,000	830	<100	290	450	NA	28,000	<400	<400	<400	13000	<10,000	9.45	4.86	4.59	NA
MW-3	12/22/2004	94	<0.50	<0.50	<0.50	<1.0	NA	84	NA	NA	NA	NA	NA	9.45	6.93	2.52	NA
MW-3	2/23/2005	<50 i	<0.50	<0.50	<0.50	<1.0	NA	85	NA	NA	NA	NA	NA	9.45	5.68	3.77	NA
MW-3	6/27/2005	<2,500	96	<25	29	<50	NA	6,100	NA	NA	NA	NA	NA	9.45	4.80	4.65	NA
MW-3	8/31/2005	<50	<0.50	<0.50	<0.50	<1.0	NA	300	<2.0	<2.0	<2.0	700	<50	8.33	5.07	3.26	NA
MW-3	12/14/2005	647	6.16	2.37	1.88	<0.500	NA	303 j	NA	NA	NA	NA	NA	8.33	5.65	2.68	NA
MW-3	3/8/2006	901	20.8	<0.500	5.55	0.980	NA	313	NA	NA	NA	1660	NA	8.33	5.57	2.76	NA
MW-3	6/14/2006	1,240	61.0	<0.500	11.0	0.730	NA	680	NA	NA	NA	5660	NA	8.33	5.68	2.65	NA
MW-3	9/27/2006	555	1.70	<0.500	<0.500	<0.500	NA	24.5	<0.500	<0.500	<0.500	1370	<50.0	8.33	6.11	2.22	NA
MW-3	11/30/2006	990	32	<2.5	8.2	<5.0	NA	590	NA	NA	NA	13000	NA	8.33	6.09	2.24	NA
MW-3	3/6/2007	2,900 k	57 k	<10 k	16 k	<10 k	NA	1,700 k	NA	NA	NA	46000	NA	8.33	4.20	4.13	NA
MW-3	6/11/2007	1,900	110	<50	28 l	<50	NA	1,100	NA	NA	NA	42000	NA	8.33	5.19	3.14	NA
MW-3	9/26/2007	<50 m	2.0	<1.0	0.38 l	<1.0	NA	11	<2.0	<2.0	<2.0	920	<100	8.33	5.54	2.79	NA
MW-3	12/28/2007	84 m	15	<1.0	0.52 l	<1.0	NA	91	NA	NA	NA	4400	NA	8.33	4.68	3.65	NA
MW-3	3/31/2008	140	3.9	<1.0	<1.0	<1.0	NA	14	NA	NA	NA	1600	NA	8.33	5.06	3.27	NA
MW-3	6/23/2008	180	<1.0	<2.0	<2.0	<2.0	NA	<2.0	NA	NA	NA	4500	NA	8.33	5.00	3.33	NA
MW-3	9/22/2008	3300	29	<10	<10	<10	NA	150	<20	<20	<20	52000	<1000	8.33	5.66	2.67	NA
MW-3	**12/16/2008**	**NA**	**<25**	**<50**	**<50**	**<50**	**NA**	**59**	**NA**	**NA**	**NA**	**11000**	**NA**	**8.33**	**5.50**	**2.83**	**NA**

WELL CONCENTRATIONS
Shell-branded Service Station
540 Hegenberger Road
Oakland, CA

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	Ethanol (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	DO Reading (ppm)
MW-4	9/25/2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9.88	7.64	2.24	NA
MW-4	12/15/2000	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	NA	NA	NA	NA	NA	NA	9.88	7.55	2.33	NA
MW-4	3/9/2001	<50.0	<0.500	0.730	<0.500	0.529	3.16	NA	NA	NA	NA	NA	NA	9.88	7.04	2.84	NA
MW-4	6/27/2001	<50	<0.50	<0.50	<0.50	<0.50	NA	<5.0	NA	NA	NA	NA	NA	9.88	7.76	2.12	NA
MW-4	9/19/2001	<50	<0.50	<0.50	<0.50	<0.50	NA	<5.0	NA	NA	NA	NA	NA	9.88	7.69	2.19	NA
MW-4	12/31/2001	<50	<0.50	<0.50	<0.50	<0.50	NA	<5.0	NA	NA	NA	NA	NA	9.88	7.08	2.80	NA
MW-4	3/14/2002	<50	<0.50	<0.50	<0.50	<0.50	NA	<5.0	NA	NA	NA	NA	NA	9.88	7.57	2.31	NA
MW-4	6/25/2002	<50	<0.50	<0.50	<0.50	<0.50	NA	<5.0	NA	NA	NA	NA	NA	9.88	8.50	1.38	NA
MW-4	9/19/2002	<50	<0.50	<0.50	<0.50	<0.50	NA	<5.0	NA	NA	NA	NA	NA	9.88	8.22	1.66	NA
MW-4	12/12/2002	<50	<0.50	<0.50	<0.50	<0.50	NA	<5.0	NA	NA	NA	NA	NA	9.88	8.08	1.80	NA
MW-4	03/20/2003 g	<50	<0.50	<0.50	<0.50	<0.50	<5.0	NA	NA	NA	NA	NA	NA	9.88	7.92	1.96	NA
MW-4	6/23/2003	<50	<0.50	<0.50	<0.50	<1.0	NA	<5.0	NA	NA	NA	NA	NA	9.88	8.18	1.70	NA
MW-4	9/22/2003	<50	<0.50	<0.50	<0.50	<1.0	NA	16	NA	NA	NA	NA	NA	9.88	8.28	1.60	NA
MW-4	12/3/2003	<50	<0.50	<0.50	<0.50	<1.0	NA	15	NA	NA	NA	NA	NA	9.88	8.44	1.44	NA
MW-4	3/18/2004	<50	<0.50	<0.50	<0.50	<1.0	NA	15	NA	NA	NA	NA	NA	9.88	7.52	2.36	NA
MW-4	5/25/2004	<50	<0.50	<0.50	<0.50	<1.0	NA	20	NA	NA	NA	NA	NA	9.88	8.30	1.58	NA
MW-4	9/22/2004	<50	<0.50	<0.50	<0.50	<1.0	NA	20	<2.0	<2.0	<2.0	<5.0	<50	9.88	7.72	2.16	NA
MW-4	12/22/2004	<50	<0.50	<0.50	<0.50	<1.0	NA	20	NA	NA	NA	NA	NA	9.88	7.32	2.56	NA
MW-4	2/23/2005	<50	<0.50	<0.50	<0.50	<1.0	NA	18	NA	NA	NA	NA	NA	9.88	6.95	2.93	NA
MW-4	6/27/2005	55	<0.50	<0.50	<0.50	<1.0	NA	14	NA	NA	NA	NA	NA	9.88	7.48	2.40	NA
MW-4	8/31/2005	<50	<0.50	<0.50	<0.50	<1.0	NA	15	<2.0	<2.0	<2.0	11	<50	9.88	7.53	2.35	NA
MW-4	12/14/2005	<50.0	<0.500	2.04	<0.500	<0.500	NA	10.1	NA	NA	NA	NA	NA	9.88	7.54	2.34	NA
MW-4	3/8/2006	<50.0	<0.500	<0.500	<0.500	<0.500	NA	5.73	NA	NA	NA	NA	NA	9.88	6.19	3.69	NA
MW-4	6/14/2006	<50.0	<0.500	0.590	<0.500	<0.500	NA	14.0	NA	NA	NA	NA	NA	9.88	7.63	2.25	NA
MW-4	9/27/2006	426	<0.500	<0.500	<0.500	<0.500	NA	16.5	<0.500	<0.500	<0.500	<10.0	<50.0	9.88	7.87	2.01	NA
MW-4	11/30/2006	<50	<0.50	<0.50	<0.50	<1.0	NA	16	NA	NA	NA	NA	NA	9.88	7.81	2.07	NA
MW-4	3/6/2007	<50 k	<0.50 k	<1.0 k	<0.50 k	<1.0 k	NA	17 k	NA	NA	NA	NA	NA	9.88	7.10	2.78	NA

WELL CONCENTRATIONS
Shell-branded Service Station
540 Hegenberger Road
Oakland, CA

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	Ethanol (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	DO Reading (ppm)
MW-4	6/11/2007	<50	<0.50	<1.0	<1.0	<1.0	NA	22	NA	NA	NA	NA	NA	9.88	7.68	2.20	NA
MW-4	9/26/2007	<50 m	<0.50	<1.0	<1.0	<1.0	NA	17	<2.0	<2.0	<2.0	<10	<100	9.88	7.80	2.08	NA
MW-4	12/28/2007	59 m	<0.50	<1.0	<1.0	<1.0	NA	20	NA	NA	NA	NA	NA	9.88	7.19	2.69	NA
MW-4	3/31/2008	<50	<0.50	<1.0	<1.0	<1.0	NA	15	NA	NA	NA	NA	NA	9.88	6.46	3.42	NA
MW-4	6/23/2008	<50	<0.50	<1.0	<1.0	<1.0	NA	18	NA	NA	NA	NA	NA	9.88	7.34	2.54	NA
MW-4	9/22/2008	<50	<0.50	<1.0	<1.0	<1.0	NA	20	<2.0	<2.0	<2.0	<10	<100	9.88	7.68	2.20	NA
MW-4	**12/16/2008**	**NA**	**<0.50**	**<1.0**	**<1.0**	**<1.0**	**NA**	**19**	**NA**	**NA**	**NA**	**NA**	**NA**	**9.88**	**7.55**	**2.33**	**NA**
MW-5	6/18/2002	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	8.36	NA	NA
MW-5	6/25/2002	<10,000	<100	<100	<100	<100	NA	60,000	NA	NA	NA	NA	NA	NA	8.30	NA	NA
MW-5	9/19/2002	<2,000	<20	<20	<20	<20	NA	7,200	NA	NA	NA	NA	NA	10.03	8.44	1.59	NA
MW-5	12/12/2002	<5,000	<50	<50	<50	<50	NA	33,000	NA	NA	NA	NA	NA	10.03	8.49	1.54	NA
MW-5	03/20/2003 g	12,000	<50	<50	<50	<50	15,000	NA	NA	NA	NA	NA	NA	10.03	8.23	1.80	NA
MW-5	6/23/2003	<1,000	<10	<10	<10	<20	NA	1,700	NA	NA	NA	NA	NA	10.03	16.70	-6.67	NA
MW-5	9/22/2003	<2,500	<25	<25	<25	<50	NA	4,400	NA	NA	NA	NA	NA	10.03	16.70	-6.67	NA
MW-5	12/3/2003	<50	<0.50	<0.50	<0.50	<1.0	NA	70	NA	NA	NA	NA	NA	10.03	16.79	-6.76	NA
MW-5	3/18/2004	<50	<0.50	<0.50	<0.50	<1.0	NA	43	NA	NA	NA	NA	NA	10.03	16.78	-6.75	NA
MW-5	5/25/2004	<50	<0.50	<0.50	<0.50	<1.0	NA	30	NA	NA	NA	NA	NA	10.03	13.02	-2.99	NA
MW-5	9/22/2004	<50	<0.50	<0.50	<0.50	<1.0	NA	20	<2.0	<2.0	<2.0	83	<50	10.03	5.91	4.12	NA
MW-5	12/22/2004	<50	<0.50	<0.50	<0.50	<1.0	NA	67	NA	NA	NA	NA	NA	10.03	5.72	4.31	NA
MW-5	2/23/2005	<50	<0.50	<0.50	<0.50	<1.0	NA	120	NA	NA	NA	NA	NA	10.03	4.41	5.62	NA
MW-5	6/27/2005	56	<0.50	<0.50	<0.50	<1.0	NA	46	NA	NA	NA	NA	NA	10.03	5.98	4.05	NA
MW-5	8/31/2005	<1,000	<10	<10	<10	<20	NA	69	<40	<40	<40	2400	<1,000	9.03	6.60	2.43	NA
MW-5	12/14/2005	302	<0.500	2.02	<0.500	<0.500	NA	34.0	NA	NA	NA	NA	NA	9.03	5.00	4.03	NA
MW-5	3/8/2006	<50.0	<0.500	<0.500	<0.500	<0.500	NA	34.6	NA	NA	NA	677	NA	9.03	4.18	4.85	NA
MW-5	6/14/2006	<50.0	<0.500	<0.500	<0.500	<0.500	NA	30.4	NA	NA	NA	4380	NA	9.03	6.10	2.93	NA
MW-5	9/27/2006	528	<0.500	<0.500	<0.500	<0.500	NA	28.6	<0.500	<0.500	<0.500	384	<50.0	9.03	6.94	2.09	NA
MW-5	11/30/2006	<50	<0.50	<0.50	<0.50	<1.0	NA	7.3	NA	NA	NA	380	NA	9.03	6.70	2.33	NA

WELL CONCENTRATIONS
Shell-branded Service Station
540 Hegenberger Road
Oakland, CA

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	Ethanol (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	DO Reading (ppm)
MW-5	3/6/2007	76 k	<0.50 k	<1.0 k	<0.50 k	<1.0 k	NA	20 k	NA	NA	NA	1,200 k	NA	9.03	4.65	4.38	NA
MW-5	6/11/2007	<50	0.35 l	0.30 l	0.47 l	3.79 l	NA	21	NA	NA	NA	38	NA	9.03	6.28	2.75	NA
MW-5	9/26/2007	<50 m	<0.50	<1.0	<1.0	<1.0	NA	27	<2.0	<2.0	<2.0	2400	<100	9.03	7.71	1.32	NA
MW-5	12/28/2007	<50 m	<0.50	<1.0	<1.0	<1.0	NA	6.5	NA	NA	NA	190	NA	9.03	5.86	3.17	NA
MW-5	3/31/2008	60	<0.50	<1.0	<1.0	<1.0	NA	15	NA	NA	NA	910	NA	9.03	6.29	2.74	NA
MW-5	6/23/2008	<50	<0.50	<1.0	<1.0	<1.0	NA	1.7	NA	NA	NA	200	NA	9.03	6.45	2.58	NA
MW-5	9/22/2008	160	<0.50	<1.0	<1.0	<1.0	NA	14	<2.0	<2.0	<2.0	3000	<100	9.03	6.99	2.04	NA
MW-5	**12/16/2008**	**NA**	**<0.50**	**<1.0**	**<1.0**	**<1.0**	**NA**	**4.4**	**NA**	**NA**	**NA**	**880**	**NA**	**9.03**	**6.34**	**2.69**	**NA**
C-1	9/19/2001	<50	<0.50	<0.50	<0.50	<0.50	NA	<5.0	NA	NA	NA	NA	NA	NA	1.44	NA	NA
C-1	3/29/2002	<50	<0.50	<0.50	<0.50	<0.50	NA	<5.0	NA	NA	NA	NA	NA	NA	2.59	NA	NA
C-1	6/25/2002	<50	<0.50	<0.50	<0.50	<0.50	NA	<5.0	NA	NA	NA	NA	NA	NA	3.72	NA	NA
C-1	9/19/2002	<50	<0.50	<0.50	<0.50	<0.50	NA	<5.0	NA	NA	NA	NA	NA	NA	3.08	NA	NA
C-1	12/12/2002	<50	<0.50	<0.50	<0.50	<0.50	NA	<5.0	NA	NA	NA	NA	NA	NA	0.64	NA	NA
C-1	03/20/2003 g	<50	<0.50	<0.50	<0.50	<0.50	<5.0	NA	NA	NA	NA	NA	NA	NA	4.61	NA	NA
SD-1	9/19/2001	Unable to sample		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SD-1	3/29/2002	Dry	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SD-1	6/25/2002	Dry	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SD-1	9/19/2002	Dry	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SD-1	12/12/2002	Dry	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SD-1	3/20/2003	Dry	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SD-2	9/19/2001	Unable to sample		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SD-2	3/29/2002	Dry	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SD-2	6/25/2002	Dry	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SD-2	9/19/2002	Dry	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SD-2	12/12/2002	Dry	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

WELL CONCENTRATIONS
Shell-branded Service Station
540 Hegenberger Road
Oakland, CA

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	Ethanol (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	DO Reading (ppm)
SD-2	3/20/2003	Dry	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BW-A	6/22/1999	318	<0.50	<0.50	0.590	1.48	4,470	NA	NA	NA	NA	NA	NA	NA	4.71	NA	1.1
BW-A	6/25/2002	<500	<5.0	<5.0	<5.0	18	NA	3,100	NA	NA	NA	NA	NA	NA	5.14	NA	NA
BW-A	9/19/2002	<200	<2.0	<2.0	<2.0	<2.0	NA	<20	NA	NA	NA	NA	NA	NA	7.19	NA	NA
BW-A	12/12/2002	<500	<5.0	<5.0	<5.0	<5.0	NA	2,900	NA	NA	NA	NA	NA	NA	6.40	NA	NA
BW-A	03/20/2003 g	<2,500	<25	<25	<25	<25	<250	NA	NA	NA	NA	NA	NA	NA	5.36	NA	NA
BW-A	6/23/2003	<1,000	<10	<10	<10	<20	NA	<100	NA	NA	NA	NA	NA	NA	10.27	NA	NA
BW-A	9/22/2005	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	8.63	NA	NA	NA
BW-B	6/22/1999	<250	<2.5	<2.5	<2.5	<2.5	8,600	NA	NA	NA	NA	NA	NA	NA	5.90	NA	1.2
BW-B	6/27/2001	<5,000	<50	<50	<50	<50	NA	40,000	NA	NA	NA	NA	NA	NA	5.83	NA	NA
BW-B	12/31/2001	<2,000	<20	<20	<20	<20	NA	9,200	NA	NA	NA	NA	NA	NA	4.19	NA	NA
BW-B	3/14/2002	<2,000	<20	<20	<20	<20	NA	9,400	NA	NA	NA	NA	NA	NA	5.24	NA	NA
BW-B	6/25/2002	<2,000	<20	<20	<20	<20	NA	6,600	NA	NA	NA	NA	NA	NA	6.19	NA	NA
BW-B	9/19/2002	<500	<5.0	<5.0	<5.0	<5.0	NA	<50	NA	NA	NA	NA	NA	NA	8.46	NA	NA
BW-B	12/12/2002	<500	<5.0	<5.0	<5.0	<5.0	NA	1,700	NA	NA	NA	NA	NA	NA	7.46	NA	NA
BW-B	03/20/2003 g	170	<1.0	<1.0	<1.0	<1.0	190	NA	NA	NA	NA	NA	NA	NA	6.23	NA	NA
BW-B	6/23/2003	<50	<0.50	<0.50	<0.50	<1.0	NA	43	NA	NA	NA	NA	NA	NA	9.95	NA	NA
BW-B	9/22/2005	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	8.32	NA	NA	NA
BW-C	6/22/1999	<50	<0.50	<0.50	<0.50	0.98	11,000	NA	NA	NA	NA	NA	NA	NA	5.91	NA	1.6
BW-C	6/25/2002	<5,000	<50	<50	<50	<50	NA	20,000	NA	NA	NA	NA	NA	NA	6.49	NA	NA
BW-C	9/19/2002	<1,000	<10	<10	<10	<10	NA	400	NA	NA	NA	NA	NA	NA	8.52	NA	NA
BW-C	12/12/2002	<2,000	<20	<20	<20	<20	NA	8,000	NA	NA	NA	NA	NA	NA	7.57	NA	NA
BW-C	03/20/2003 g	270	<1.0	<1.0	<1.0	<1.0	250	NA	NA	NA	NA	NA	NA	NA	6.48	NA	NA
BW-C	6/23/2003	<1,000	<10	<10	<10	<20	NA	170	NA	NA	NA	NA	NA	NA	11.48	NA	NA
BW-C	9/22/2005	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9.81	NA	NA	NA

WELL CONCENTRATIONS
Shell-branded Service Station
540 Hegenberger Road
Oakland, CA

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	Ethanol (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	DO Reading (ppm)
BW-D	6/22/1999	<50.0	<0.500	<0.500	<0.500	<0.500	2,190	NA	NA	NA	NA	NA	NA	NA	4.78	NA	1.4
BW-D	6/25/2002	Well inaccessible		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BW-D	7/2/2002	<1,000	23	<10	<10	<10	NA	<100	NA	NA	NA	NA	NA	NA	6.36	NA	NA
BW-D	9/19/2002	<250	<2.5	<2.5	<2.5	<2.5	NA	<25	NA	NA	NA	NA	NA	NA	7.25	NA	NA
BW-D	12/12/2002	<5,000	<50	<50	<50	<50	NA	16,000	NA	NA	NA	NA	NA	NA	6.21	NA	NA
BW-D	03/20/2003 g	71	<0.50	<0.50	<0.50	<0.50	55	NA	NA	NA	NA	NA	NA	NA	5.23	NA	NA
BW-D	6/23/2003	<1,000	<10	<10	<10	<20	NA	<100	NA	NA	NA	NA	NA	NA	10.25	NA	NA
BW-D	9/22/2003	<100	<1.0	<1.0	<1.0	<2.0	NA	120	NA	NA	NA	NA	NA	NA	10.18	NA	NA
BW-D	12/3/2003	<1,300	110	<13	<13	29	NA	560	NA	NA	NA	NA	NA	NA	10.20	NA	NA
BW-D	3/18/2004	<50	0.67	<0.50	<0.50	<1.0	NA	12	NA	NA	NA	NA	NA	NA	3.42	NA	NA
BW-D	5/25/2004	<50	1.4	0.96	<0.50	<1.0	NA	1.7	NA	NA	NA	NA	NA	NA	8.83	NA	NA
BW-D	9/22/2004	<100	6.9	<1.0	2.1	4.2	NA	210	NA	NA	NA	NA	NA	NA	2.75	NA	NA
BW-D	12/22/2004	61	2.1	2.9	<0.50	3.6	NA	5.4	NA	NA	NA	NA	NA	NA	3.67	NA	NA
BW-D	2/23/2005	<50	<0.50	<0.50	<0.50	<1.0	NA	1.2	NA	NA	NA	NA	NA	NA	2.88	NA	NA
BW-D	6/27/2005	53	<0.50	<0.50	<0.50	<1.0	NA	1.8	NA	NA	NA	NA	NA	NA	3.70	NA	NA
BW-D	8/31/2005	<50	<0.50	<0.50	<0.50	<1.0	NA	1.4	NA	NA	NA	NA	NA	8.61	3.82	4.79	NA
BW-D	12/14/2005	<50.0	<0.500	2.78	<0.500	<0.500	NA	2.26	NA	NA	NA	NA	NA	8.61	3.59	5.02	NA
BW-D	3/8/2006	<50.0	<0.500	<0.500	<0.500	<0.500	NA	2.23	NA	NA	NA	NA	NA	8.61	3.61	5.00	NA
BW-D	6/14/2006	<50.0	<0.500	<0.500	<0.500	<0.500	NA	18.1	NA	NA	NA	NA	NA	8.61	3.86	4.75	NA
BW-D	9/27/2006	410	<0.500	<0.500	<0.500	<0.500	NA	2.90	<0.500	<0.500	<0.500	78	<50.0	8.61	4.32	4.29	NA
BW-D	11/30/2006	<50	<0.50	<0.50	<0.50	<1.0	NA	1.3	NA	NA	NA	NA	NA	8.61	4.00	4.61	NA
BW-D	3/6/2007	<50 k	<0.50 k	<1.0 k	<0.50 k	<1.0 k	NA	1.4 k	NA	NA	NA	NA	NA	8.61	3.44	5.17	NA
BW-D	6/11/2007	<50	<0.50	<1.0	<1.0	<1.0	NA	0.95 l	NA	NA	NA	NA	NA	8.61	4.14	4.47	NA
BW-D	9/26/2007	<50 m	<0.50	<1.0	<1.0	<1.0	NA	1.1	NA	NA	NA	NA	NA	8.61	4.22	4.39	NA
BW-D	12/28/2007	<50 m	<0.50	<1.0	<1.0	<1.0	NA	1.4	NA	NA	NA	NA	NA	8.61	3.55	5.06	NA
BW-D	3/31/2008	<50	<0.50	<1.0	<1.0	<1.0	NA	2.3	NA	NA	NA	NA	NA	8.61	4.20	4.41	NA
BW-D	6/23/2008	<50	<0.50	<1.0	<1.0	<1.0	NA	1.1	NA	NA	NA	NA	NA	8.61	4.01	4.60	NA

WELL CONCENTRATIONS
Shell-branded Service Station
540 Hegenberger Road
Oakland, CA

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	Ethanol (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	DO Reading (ppm)
BW-D	9/22/2008	<50	<0.50	<1.0	<1.0	<1.0	NA	<1.0	NA	NA	NA	<10	NA	8.61	4.21	4.40	NA
BW-D	**12/16/2008**	**<50**	**<0.50**	**<1.0**	**<1.0**	**<1.0**	**NA**	**1.3**	**NA**	**NA**	**NA**	**NA**	**NA**	**8.61**	**3.69**	**4.92**	**NA**

Abbreviations:
TPPH = Total petroleum hydrocarbons as gasoline by EPA Method 8260B; prior to June 27, 2001, analyzed by EPA Method 8015.
BTEX = Benzene, toluene, ethylbenzene, xylenes by EPA Method 8260B; prior to June 27, 2001, analyzed by EPA Method 8020.
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
DO = Dissolved Oxygen
ppm = Parts per million
ug/L = Parts per billion
MSL = Mean sea level
ft. = Feet
<n = Below detection limit
(D) = Duplicate sample
NA = Not applicable

WELL CONCENTRATIONS
Shell-branded Service Station
540 Hegenberger Road
Oakland, CA

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	Ethanol (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	DO Reading (ppm)

Notes:

a = Pre-purge

b = Post purge

c = Lab confirmed MTBE by mistake. MTBE value at MW-1 should have been confirmed instead.

d = DO reading not taken.

e = Sample was analyzed outside of the EPA recommended holding time.

f = The second highest MTBE hit was mistakenly confirmed. MTBE for MW-1 should have been confirmed.

g = On March 20, 2003, all analyses run by EPA Method 8015/8020.

h = Depth to top of pump; pump prevented depth to water measurement.

i = The concentration reported reflects individual or discrete unidentified peaks not matching a typical fuel pattern.

j = Concentration estimated. Analyte exceeded calibration range. Reanalysis not performed due to holding time requirements.

k = 1,1-Dichloroethene, a calibration check compound (CCC), was outside the 20%D method acceptance criteria in the CCV.

l = Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.

m = Analyzed by EPA Method 8015B (M).

n = The sample chromatographic pattern for TPH does not match the chromatographic pattern of the specified standard. Quantitation of the unknown hydrocarbon(s) in the sample was based upon the specified standard.

Ethanol analyzed by EPA Method 8260B.

Site surveyed September 21, 2000 by Virgil Chavez Land Surveying of Vallejo, CA.

C-1 is a canal sample location.

SD-1 and SD-2 are storm drains.

Wells MW-1 through MW-5 surveyed January 24 and June 19, 2002 by Virgil Chavez Land Surveying of Vallejo, CA.

Wells MW-1, MW-3, MW-5, and BW-D surveyed on September 22, 2005 by Virgil Chavez Land Surveying of Vallejo, CA.

Unmonitored backfilled wells BW-A, BW-B, and BW-C surveyed on September 22, 2005 by Virgil Chavez Land Surveying of Vallejo, CA.

Calscience Environmental Laboratories, Inc.

December 31, 2008

Michael Ninokata
Blaine Tech Services, Inc.
1680 Rogers Avenue
San Jose, CA 95112-1105

Subject: **Calscience Work Order No.: 08-12-2167**
Client Reference: 540 Hegenberger Rd., Oakland, CA

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 12/20/2008 and analyzed in accordance with the attached chain-of-custody.

Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Systems Manual, applicable standard operating procedures, and other related documentation. The original report of subcontracted analysis, if any, is provided herein, and follows the standard Calscience data package. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

If you have any questions regarding this report, please do not hesitate to contact the undersigned.

Sincerely,

Calscience Environmental
Laboratories, Inc.
Jessie Kim
Project Manager

Calscience Environmental Laboratories, Inc.

Analytical Report

Blaine Tech Services, Inc.		Date Received:	12/20/08
1680 Rogers Avenue		Work Order No:	08-12-2167
San Jose, CA 95112-1105		Preparation:	EPA 5030B
		Method:	EPA 8260B
		Units:	ug/L

Project: 540 Hegenberger Rd., Oakland, CA

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-4	**08-12-2167-4-A**	**12/16/08 12:55**	**Aqueous**	**GC/MS CC**	**12/22/08**	**12/22/08 21:42**	**081222L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.50	1		p/m-Xylene	ND	1.0	1	
Ethylbenzene	ND	1.0	1		o-Xylene	ND	1.0	1	
Toluene	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	19	1.0	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	102	82-130			1,2-Dichloroethane-d4	101	75-141		
Toluene-d8	99	83-113			1,4-Bromofluorobenzene	97	70-118		

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-10-006-27,906**	**N/A**	**Aqueous**	**GC/MS CC**	**12/22/08**	**12/22/08 12:54**	**081222L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.50	1		p/m-Xylene	ND	1.0	1	
Ethylbenzene	ND	1.0	1		o-Xylene	ND	1.0	1	
Toluene	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	102	82-130			1,2-Dichloroethane-d4	100	75-141		
Toluene-d8	100	83-113			1,4-Bromofluorobenzene	98	70-118		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Blaine Tech Services, Inc.		Date Received:	12/20/08
1680 Rogers Avenue		Work Order No:	08-12-2167
San Jose, CA 95112-1105		Preparation:	EPA 5030B
		Method:	EPA 8260B
		Units:	ug/L

Project: 540 Hegenberger Rd., Oakland, CA

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-1	**08-12-2167-1-A**	**12/16/08 15:30**	**Aqueous**	**GC/MS CC**	**12/22/08**	**12/23/08 01:25**	**081222L02**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.50	1		o-Xylene	ND	1.0	1	
Ethylbenzene	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	190	1.0	1	
Toluene	ND	1.0	1		Tert-Butyl Alcohol (TBA)	820	10	1	
p/m-Xylene	ND	1.0	1						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	107	82-130		1,2-Dichloroethane-d4	109	75-141	
Toluene-d8	101	83-113		1,4-Bromofluorobenzene	97	70-118	

MW-2	**08-12-2167-2-A**	**12/16/08 14:59**	**Aqueous**	**GC/MS CC**	**12/22/08**	**12/22/08 20:46**	**081222L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.50	1		o-Xylene	ND	1.0	1	
Ethylbenzene	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	2.6	1.0	1	
Toluene	ND	1.0	1		Tert-Butyl Alcohol (TBA)	ND	10	1	
p/m-Xylene	ND	1.0	1						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	114	82-130		1,2-Dichloroethane-d4	120	75-141	
Toluene-d8	101	83-113		1,4-Bromofluorobenzene	100	70-118	

MW-3	**08-12-2167-3-A**	**12/16/08 14:26**	**Aqueous**	**GC/MS CC**	**12/22/08**	**12/22/08 21:14**	**081222L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	25	50		o-Xylene	ND	50	50	
Ethylbenzene	ND	50	50		Methyl-t-Butyl Ether (MTBE)	59	50	50	
Toluene	ND	50	50		Tert-Butyl Alcohol (TBA)	11000	500	50	
p/m-Xylene	ND	50	50						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	105	82-130		1,2-Dichloroethane-d4	106	75-141	
Toluene-d8	101	83-113		1,4-Bromofluorobenzene	98	70-118	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Blaine Tech Services, Inc.		Date Received:	12/20/08
1680 Rogers Avenue		Work Order No:	08-12-2167
San Jose, CA 95112-1105		Preparation:	EPA 5030B
		Method:	EPA 8260B
		Units:	ug/L

Project: 540 Hegenberger Rd., Oakland, CA

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-5	**08-12-2167-5-B**	**12/16/08 16:40**	**Aqueous**	**GC/MS S**	**12/23/08**	**12/23/08 13:51**	**081223L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.50	1		o-Xylene	ND	1.0	1	
Ethylbenzene	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	4.4	1.0	1	
Toluene	ND	1.0	1		Tert-Butyl Alcohol (TBA)	880	10	1	
p/m-Xylene	ND	1.0	1						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	115	82-130		1,2-Dichloroethane-d4	129	75-141	
Toluene-d8	97	83-113		1,4-Bromofluorobenzene	97	70-118	

Method Blank	099-10-006-27,906	N/A	Aqueous	GC/MS CC	12/22/08	12/22/08 12:54	081222L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.50	1		o-Xylene	ND	1.0	1	
Ethylbenzene	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	
Toluene	ND	1.0	1		Tert-Butyl Alcohol (TBA)	ND	10	1	
p/m-Xylene	ND	1.0	1						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	102	82-130		1,2-Dichloroethane-d4	100	75-141	
Toluene-d8	100	83-113		1,4-Bromofluorobenzene	98	70-118	

Method Blank	099-10-006-27,921	N/A	Aqueous	GC/MS CC	12/22/08	12/23/08 00:30	081222L02

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.50	1		o-Xylene	ND	1.0	1	
Ethylbenzene	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	
Toluene	ND	1.0	1		Tert-Butyl Alcohol (TBA)	ND	10	1	
p/m-Xylene	ND	1.0	1						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	106	82-130		1,2-Dichloroethane-d4	105	75-141	
Toluene-d8	100	83-113		1,4-Bromofluorobenzene	99	70-118	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Blaine Tech Services, Inc.	Date Received:	12/20/08
1680 Rogers Avenue	Work Order No:	08-12-2167
San Jose, CA 95112-1105	Preparation:	EPA 5030B
	Method:	EPA 8260B
	Units:	ug/L

Project: 540 Hegenberger Rd., Oakland, CA

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-10-006-27,925**	**N/A**	**Aqueous**	**GC/MS S**	**12/23/08**	**12/23/08 12:52**	**081223L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.50	1		o-Xylene	ND	1.0	1	
Ethylbenzene	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	
Toluene	ND	1.0	1		Tert-Butyl Alcohol (TBA)	ND	10	1	
p/m-Xylene	ND	1.0	1						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	112	82-130		1,2-Dichloroethane-d4	124	75-141	
Toluene-d8	97	83-113		1,4-Bromofluorobenzene	95	70-118	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Blaine Tech Services, Inc.		Date Received:	12/20/08
1680 Rogers Avenue		Work Order No:	08-12-2167
San Jose, CA 95112-1105		Preparation:	EPA 5030B
		Method:	LUFT GC/MS / EPA 8260B
		Units:	ug/L

Project: 540 Hegenberger Rd., Oakland, CA

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
BW-D	**08-12-2167-6-C**	**12/16/08 13:47**	**Aqueous**	**GC/MS WW**	**12/24/08**	**12/24/08 14:07**	**081224L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.50	1		o-Xylene	ND	1.0	1	
Ethylbenzene	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	1.3	1.0	1	
Toluene	ND	1.0	1		TPPH	ND	50	1	
p/m-Xylene	ND	1.0	1						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	103	74-140		1,2-Dichloroethane-d4	112	74-146	
Toluene-d8	102	88-112		Toluene-d8-TPPH	101	88-112	
1,4-Bromofluorobenzene	100	74-110					

Method Blank	**099-12-767-686**	**N/A**	**Aqueous**	**GC/MS WW**	**12/24/08**	**12/24/08 13:41**	**081224L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.50	1		o-Xylene	ND	1.0	1	
Ethylbenzene	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	
Toluene	ND	1.0	1		TPPH	ND	50	1	
p/m-Xylene	ND	1.0	1						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	102	74-140		1,2-Dichloroethane-d4	111	74-146	
Toluene-d8	102	88-112		Toluene-d8-TPPH	101	88-112	
1,4-Bromofluorobenzene	99	74-110					

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

Blaine Tech Services, Inc.
1680 Rogers Avenue
San Jose, CA 95112-1105

Date Received: 12/20/08
Work Order No: 08-12-2167
Preparation: EPA 5030B
Method: EPA 8260B

Project 540 Hegenberger Rd., Oakland, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
08-12-1978-5	**Aqueous**	**GC/MS CC**	**12/22/08**	**12/22/08**	**081222S01**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	100	102	88-118	2	0-7	
Carbon Tetrachloride	94	98	67-145	4	0-11	
Chlorobenzene	100	99	88-118	1	0-7	
1,2-Dibromoethane	100	100	70-130	1	0-30	
1,2-Dichlorobenzene	96	99	86-116	3	0-8	
1,1-Dichloroethene	105	110	70-130	5	0-25	
Ethylbenzene	98	99	70-130	1	0-30	
Toluene	99	100	87-123	0	0-8	
Trichloroethene	98	97	79-127	0	0-10	
Vinyl Chloride	97	103	69-129	6	0-13	
Methyl-t-Butyl Ether (MTBE)	94	100	71-131	6	0-13	
Tert-Butyl Alcohol (TBA)	89	88	36-168	2	0-45	
Diisopropyl Ether (DIPE)	94	100	81-123	7	0-9	
Ethyl-t-Butyl Ether (ETBE)	94	98	72-126	4	0-12	
Tert-Amyl-Methyl Ether (TAME)	94	97	72-126	3	0-12	
Ethanol	85	94	53-149	10	0-31	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

Blaine Tech Services, Inc.
1680 Rogers Avenue
San Jose, CA 95112-1105

Date Received: 12/20/08
Work Order No: 08-12-2167
Preparation: EPA 5030B
Method: EPA 8260B

Project 540 Hegenberger Rd., Oakland, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
MW-1	**Aqueous**	**GC/MS CC**	**12/22/08**	**12/23/08**	**081222S02**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	102	101	88-118	1	0-7	
Carbon Tetrachloride	94	94	67-145	1	0-11	
Chlorobenzene	100	99	88-118	0	0-7	
1,2-Dibromoethane	104	96	70-130	8	0-30	
1,2-Dichlorobenzene	98	103	86-116	5	0-8	
1,1-Dichloroethene	111	107	70-130	4	0-25	
Ethylbenzene	97	101	70-130	4	0-30	
Toluene	100	101	87-123	1	0-8	
Trichloroethene	97	97	79-127	1	0-10	
Vinyl Chloride	102	98	69-129	4	0-13	
Methyl-t-Butyl Ether (MTBE)	111	72	71-131	8	0-13	
Tert-Butyl Alcohol (TBA)	90	56	36-168	8	0-45	
Diisopropyl Ether (DIPE)	103	96	81-123	6	0-9	
Ethyl-t-Butyl Ether (ETBE)	101	94	72-126	8	0-12	
Tert-Amyl-Methyl Ether (TAME)	97	94	72-126	4	0-12	
Ethanol	92	85	53-149	8	0-31	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

Blaine Tech Services, Inc.
1680 Rogers Avenue
San Jose, CA 95112-1105

Date Received: 12/20/08
Work Order No: 08-12-2167
Preparation: EPA 5030B
Method: EPA 8260B

Project 540 Hegenberger Rd., Oakland, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
MW-5	**Aqueous**	**GC/MS S**	**12/23/08**	**12/23/08**	**081223S01**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	95	94	88-118	1	0-7	
Carbon Tetrachloride	110	108	67-145	2	0-11	
Chlorobenzene	95	96	88-118	1	0-7	
1,2-Dibromoethane	99	105	70-130	5	0-30	
1,2-Dichlorobenzene	93	93	86-116	1	0-8	
1,1-Dichloroethene	94	93	70-130	1	0-25	
Ethylbenzene	99	100	70-130	1	0-30	
Toluene	101	100	87-123	1	0-8	
Trichloroethene	99	102	79-127	2	0-10	
Vinyl Chloride	82	83	69-129	1	0-13	
Methyl-t-Butyl Ether (MTBE)	102	104	71-131	1	0-13	
Tert-Butyl Alcohol (TBA)	56	64	36-168	2	0-45	
Diisopropyl Ether (DIPE)	83	84	81-123	1	0-9	
Ethyl-t-Butyl Ether (ETBE)	93	92	72-126	1	0-12	
Tert-Amyl-Methyl Ether (TAME)	107	106	72-126	1	0-12	
Ethanol	89	87	53-149	2	0-31	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

Blaine Tech Services, Inc.
1680 Rogers Avenue
San Jose, CA 95112-1105

Date Received: 12/20/08
Work Order No: 08-12-2167
Preparation: EPA 5030B
Method: LUFT GC/MS / EPA 8260B

Project 540 Hegenberger Rd., Oakland, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
BW-D	**Aqueous**	**GC/MS WW**	**12/24/08**	**12/24/08**	**081224S01**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	93	96	88-118	3	0-7	
Carbon Tetrachloride	105	110	67-145	5	0-11	
Chlorobenzene	96	100	88-118	4	0-7	
1,2-Dibromoethane	100	108	70-130	8	0-30	
1,2-Dichlorobenzene	93	96	86-116	4	0-8	
1,1-Dichloroethene	95	102	70-130	7	0-25	
Ethylbenzene	96	101	70-130	5	0-30	
Toluene	98	101	87-123	3	0-8	
Trichloroethene	97	100	79-127	3	0-10	
Vinyl Chloride	88	93	69-129	5	0-13	
Methyl-t-Butyl Ether (MTBE)	96	102	71-131	6	0-13	
Tert-Butyl Alcohol (TBA)	81	93	36-168	12	0-45	
Diisopropyl Ether (DIPE)	93	101	81-123	8	0-9	
Ethyl-t-Butyl Ether (ETBE)	96	99	72-126	3	0-12	
Tert-Amyl-Methyl Ether (TAME)	101	107	72-126	6	0-12	
Ethanol	73	84	53-149	14	0-31	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

Blaine Tech Services, Inc.	Date Received: N/A
1680 Rogers Avenue	Work Order No: 08-12-2167
San Jose, CA 95112-1105	Preparation: EPA 5030B
	Method: EPA 8260B

Project: 540 Hegenberger Rd., Oakland, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-10-006-27,906	**Aqueous**	**GC/MS CC**	**12/22/08**	**12/22/08**	**081222L01**

Parameter	LCS %REC	LCSD %REC	%REC CL	ME_CL	RPD	RPD CL	Qualifiers
Benzene	101	100	84-120	78-126	1	0-8	
Carbon Tetrachloride	98	97	63-147	49-161	1	0-10	
Chlorobenzene	99	100	89-119	84-124	1	0-7	
1,2-Dibromoethane	101	99	80-120	73-127	2	0-20	
1,2-Dichlorobenzene	98	97	89-119	84-124	1	0-9	
1,1-Dichloroethene	106	105	77-125	69-133	1	0-16	
Ethylbenzene	99	100	80-120	73-127	1	0-20	
Toluene	100	99	83-125	76-132	1	0-9	
Trichloroethene	99	98	89-119	84-124	1	0-8	
Vinyl Chloride	99	97	63-135	51-147	3	0-13	
Methyl-t-Butyl Ether (MTBE)	98	92	82-118	76-124	5	0-13	
Tert-Butyl Alcohol (TBA)	97	86	46-154	28-172	13	0-32	
Diisopropyl Ether (DIPE)	99	94	81-123	74-130	5	0-11	
Ethyl-t-Butyl Ether (ETBE)	98	94	74-122	66-130	4	0-12	
Tert-Amyl-Methyl Ether (TAME)	99	96	76-124	68-132	3	0-10	
Ethanol	95	89	60-138	47-151	6	0-32	

Total number of LCS compounds : 16

Total number of ME compounds : 0

Total number of ME compounds allowed : 1

LCS ME CL validation result : Pass

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

Blaine Tech Services, Inc.
1680 Rogers Avenue
San Jose, CA 95112-1105

Date Received: N/A
Work Order No: 08-12-2167
Preparation: EPA 5030B
Method: EPA 8260B

Project: 540 Hegenberger Rd., Oakland, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-10-006-27,921	**Aqueous**	**GC/MS CC**	**12/22/08**	**12/22/08**	**081222L02**

Parameter	LCS %REC	LCSD %REC	%REC CL	ME_CL	RPD	RPD CL	Qualifiers
Benzene	101	101	84-120	78-126	0	0-8	
Carbon Tetrachloride	96	95	63-147	49-161	1	0-10	
Chlorobenzene	101	100	89-119	84-124	0	0-7	
1,2-Dibromoethane	101	100	80-120	73-127	1	0-20	
1,2-Dichlorobenzene	103	101	89-119	84-124	2	0-9	
1,1-Dichloroethene	107	104	77-125	69-133	3	0-16	
Ethylbenzene	101	101	80-120	73-127	0	0-20	
Toluene	101	101	83-125	76-132	1	0-9	
Trichloroethene	99	98	89-119	84-124	1	0-8	
Vinyl Chloride	100	97	63-135	51-147	3	0-13	
Methyl-t-Butyl Ether (MTBE)	99	96	82-118	76-124	4	0-13	
Tert-Butyl Alcohol (TBA)	85	83	46-154	28-172	1	0-32	
Diisopropyl Ether (DIPE)	99	94	81-123	74-130	5	0-11	
Ethyl-t-Butyl Ether (ETBE)	97	93	74-122	66-130	5	0-12	
Tert-Amyl-Methyl Ether (TAME)	96	93	76-124	68-132	3	0-10	
Ethanol	89	85	60-138	47-151	5	0-32	

Total number of LCS compounds : 16
Total number of ME compounds : 0
Total number of ME compounds allowed : 1
LCS ME CL validation result : Pass

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

Blaine Tech Services, Inc.
1680 Rogers Avenue
San Jose, CA 95112-1105

Date Received: N/A
Work Order No: 08-12-2167
Preparation: EPA 5030B
Method: EPA 8260B

Project: 540 Hegenberger Rd., Oakland, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-10-006-27,925	**Aqueous**	**GC/MS S**	**12/23/08**	**12/23/08**	**081223L01**

Parameter	LCS %REC	LCSD %REC	%REC CL	ME_CL	RPD	RPD CL	Qualifiers
Benzene	97	98	84-120	78-126	1	0-8	
Carbon Tetrachloride	120	121	63-147	49-161	1	0-10	
Chlorobenzene	101	99	89-119	84-124	2	0-7	
1,2-Dibromoethane	102	101	80-120	73-127	1	0-20	
1,2-Dichlorobenzene	99	97	89-119	84-124	2	0-9	
1,1-Dichloroethene	104	107	77-125	69-133	3	0-16	
Ethylbenzene	105	104	80-120	73-127	1	0-20	
Toluene	103	102	83-125	76-132	1	0-9	
Trichloroethene	105	109	89-119	84-124	4	0-8	
Vinyl Chloride	92	96	63-135	51-147	4	0-13	
Methyl-t-Butyl Ether (MTBE)	100	103	82-118	76-124	3	0-13	
Tert-Butyl Alcohol (TBA)	91	106	46-154	28-172	16	0-32	
Diisopropyl Ether (DIPE)	86	86	81-123	74-130	1	0-11	
Ethyl-t-Butyl Ether (ETBE)	89	92	74-122	66-130	3	0-12	
Tert-Amyl-Methyl Ether (TAME)	99	100	76-124	68-132	1	0-10	
Ethanol	90	104	60-138	47-151	14	0-32	

Total number of LCS compounds : 16
Total number of ME compounds : 0
Total number of ME compounds allowed : 1
LCS ME CL validation result : Pass

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

Blaine Tech Services, Inc.
1680 Rogers Avenue
San Jose, CA 95112-1105

Date Received: N/A
Work Order No: 08-12-2167
Preparation: EPA 5030B
Method: LUFT GC/MS / EPA 8260B

Project: 540 Hegenberger Rd., Oakland, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-767-686	**Aqueous**	**GC/MS WW**	**12/24/08**	**12/24/08**	**081224L01**

Parameter	LCS %REC	LCSD %REC	%REC CL	ME_CL	RPD	RPD CL	Qualifiers
Benzene	98	100	84-120	78-126	2	0-8	
Carbon Tetrachloride	112	115	63-147	49-161	3	0-10	
Chlorobenzene	102	105	89-119	84-124	3	0-7	
1,2-Dibromoethane	107	109	80-120	73-127	2	0-20	
1,2-Dichlorobenzene	99	101	89-119	84-124	2	0-9	
1,1-Dichloroethene	105	114	77-125	69-133	9	0-16	
Ethylbenzene	101	105	80-120	73-127	3	0-20	
Toluene	102	106	83-125	76-132	3	0-9	
Trichloroethene	105	106	89-119	84-124	1	0-8	
Vinyl Chloride	112	97	63-135	51-147	14	0-13	X
Methyl-t-Butyl Ether (MTBE)	102	104	82-118	76-124	2	0-13	
Tert-Butyl Alcohol (TBA)	95	96	46-154	28-172	1	0-32	
Diisopropyl Ether (DIPE)	98	95	81-123	74-130	3	0-11	
Ethyl-t-Butyl Ether (ETBE)	101	103	74-122	66-130	2	0-12	
Tert-Amyl-Methyl Ether (TAME)	108	107	76-124	68-132	1	0-10	
Ethanol	93	104	60-138	47-151	12	0-32	
TPPH	82	85	65-135	53-147	4	0-30	

Total number of LCS compounds : 17
Total number of ME compounds : 0
Total number of ME compounds allowed : 1
LCS ME CL validation result : Pass

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Glossary of Terms and Qualifiers

Work Order Number: 08-12-2167

Qualifier	Definition
*	See applicable analysis comment.
1	Surrogate compound recovery was out of control due to a required sample dilution, therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to matrix interference. The associated LCS and/or LCSD was in control and, therefore, the sample data was reported without further clarification.
4	The MS/MSD RPD was out of control due to matrix interference. The LCS/LCSD RPD was in control and, therefore, the sample data was reported without further clarification.
5	The PDS/PDSD associated with this batch of samples was out of control due to a matrix interference effect. The associated batch LCS/LCSD was in control and, hence, the associated sample data was reported with no further corrective action required.
A	Result is the average of all dilutions, as defined by the method.
B	Analyte was present in the associated method blank.
C	Analyte presence was not confirmed on primary column.
E	Concentration exceeds the calibration range.
H	Sample received and/or analyzed past the recommended holding time.
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
ME	LCS Recovery Percentage is within LCS ME Control Limit range.
N	Nontarget Analyte.
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
U	Undetected at the laboratory method detection limit.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.

Shell Oil Products Chain Of Custody Record

LAB (LOCATION)
- ☑ CALSCIENCE (_____)
- ☐ SPL (_____)
- ☐ XENCO (_____)
- ☐ TEST AMERICA (_____)
- ☐ OTHER (_____)

Please Check Appropriate Box:
- ☑ ENV. SERVICES
- ☐ MOTIVA RETAIL
- ☐ SHELL RETAIL
- ☐ MOTIVA SD&CM
- ☐ CONSULTANT
- ☐ LUBES
- ☐ SHELL PIPELINE
- ☐ OTHER

Print Bill To Contact Name: Denis Brown

PO #

INCIDENT # (ENV SERVICES): 98995752

☐ CHECK IF NO INCIDENT # APPLIES

SAP #

DATE: 12/16/08

PAGE: 1 of 1

SAMPLING COMPANY	Blaine Tech Services
LOG CODE	BTSS
ADDRESS	1680 Rogers Ave, San Jose, CA 95112
PROJECT CONTACT (Hardcopy or PDF Report to)	Michael Ninokata
TELEPHONE	(408)573-0555
FAX	(408)573-7771
E-MAIL	mninokata@blainetech.com
SITE ADDRESS: Street and City	540 Hegenberger Rd., Oakland
State	CA
GLOBAL ID NO	T0600102123
EDF DELIVERABLE TO (Name, Company, Office Location)	Anni Kreml, CRA, Emeryville
PHONE NO	(510) 420-3335
E-MAIL	Shelledf@craworld.com
CONSULTANT PROJECT NO / BTS #	081216-MW1
SAMPLER NAME(S) (Print)	William Wong Christopher Morush
LAB USE ONLY	08-12-2167

TURNAROUND TIME (CALENDAR DAYS):
- ☑ STANDARD (14 DAY)
- ☐ 5 DAYS
- ☐ 3 DAYS
- ☐ 2 DAYS
- ☐ 24 HOURS
- ☐ RESULTS NEEDED ON WEEKEND

☐ LA - RWQCB REPORT FORMAT ☐ UST AGENCY:

SPECIAL INSTRUCTIONS OR NOTES :

Run TPH-d w/Silica Gel Clean Up

- ☐ SHELL CONTRACT RATE APPLIES
- ☐ STATE REIMBURSEMENT RATE APPLIES
- ☐ EDD NOT NEEDED
- ☑ RECEIPT VERIFICATION REQUESTED

REQUESTED ANALYSIS

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	MATRIX	PRESERVATIVE HCL	HNO3	H2SO4	NONE	OTHER	NO. OF CONT.	TPH - Purgeable (8260B)	TPH - Extractable (8015M)	BTEX (8260B)	5 Oxygenates (8260B)	MTBE (8260B)	TBA (8260B)	DIPE (8260B)	TAME (8260B)	ETBE (8260B)	1,2 DCA (8260B)	EDB (8260B)	Ethanol (8260B)	Methanol (8015M)	Container PID Readings or Laboratory Notes
1	MW-1	12/16/08	1530	W	3					3	X		X		X	X								
2	MW-2		1459								X		X		X	X								
3	MW-3		1426								X		X		X	X								
4	MW-4		1255								X		X		X									
5	MW-5		1640								X		X		X	X								
6	BW-D		1347								X		X		X									

TEMPERATURE ON RECEIPT C°

Relinquished by: (Signature) Christopher Morush	Received by: (Signature) Christopher Morush Sample Custodian	Date: 12/16/08	Time: 17:28
Relinquished by: (Signature) (Sample Cust)	Received by: (Signature) CEL	Date: 12-19-08	Time: 1130
Relinquished by: (Signature) TO 12-19-08 GSO 1730 GSO51095711	Received by: (Signature) CEL	Date: 12/20/08	Time: 1045

05/2/06 Revision

Calscience Environmental Laboratories, Inc.

WORK ORDER #: 08-12-2167

SAMPLE RECEIPT FORM

Cooler 1 of 1

CLIENT: BTS DATE: 12/20/08

TEMPERATURE: (Criteria: 0.0 °C – 6.0 °C, not frozen)

Temperature 4.3 °C - 0.2 °C (CF) = 4.1 °C ☐ Blank ☑ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by:_____).

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

☐ **Received at ambient temperature, placed on ice for transport by Courier.**

Ambient Temperature: ☐ Air ☐ Filter ☐ Metals Only ☐ PCBs Only **Initial:** WB

CUSTODY SEALS INTACT:

☐ Cooler ☐_____ ☐ No (Not Intact) ☑ Not Present ☐ N/A **Initial:** WB

☐ Sample ☐_____ ☐ No (Not Intact) ☑ Not Present **Initial:** BW

SAMPLE CONDITION:	Yes	No	N/A
Chain-Of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☑	☐	☐
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and good condition	☑	☐	☐
Correct containers and volume for analyses requested	☑	☐	☐
Analyses received within holding time	☑	☐	☐
Proper preservation noted on COC or sample container	☑	☐	☐
Volatile analysis container(s) free of headspace	☑	☐	☐
Tedlar bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE:

Solid: ☐4ozCGJ ☐8ozCGJ ☐16ozCGJ ☐Sleeve ☐EnCores® ☐TerraCores® ☐_____

Water: ☐VOA ☑VOAh (3) ☐VOAna_2 ☐125AGB ☐125AGBh ☐125AGBpo_4 ☐1AGB ☐1AGBna_2 ☐1AGBs ☐500AGB ☐500AGBs ☐250CGB ☐250CGBs ☐1PB ☐500PB ☐500PBna ☐250PB ☐250PBn ☐125PB ☐125PBznna ☐100PBsterile ☐100PBna_2 ☐_____ ☐_____ ☐_____

Air: ☐Tedlar® ☐Summa® ☐_____

Container: C:Clear A:Amber P:Poly/Plastic G:Glass J:Jar B:Bottle

Preservative: h:HCL n:HNO_3 na_2:$Na_2S_2O_3$ na:NaOH po_4:H_3PO_4 s:H_2SO_4 znna:$ZnAc_2$+NaOH

Checked/Labeled by: BW

Reviewed by: KD

Scanned by: BW

SHELL WELLHEAD INSPECTION FORM

(FOR SAMPLE TECHNICIAN)

Site Address 540 Hegenberger Rd, Oakland, CA Date 12/16/05

Job Number 081216-ww2 Technician WW CM Page 1 of 1

Well ID	Well Inspected - No Corrective Action Required	Well Box Meets Compliance Requirements *See Below	Water Bailed From Wellbox	Cap Replaced	Lock Replaced	Well Not Inspected (explain in notes)	New Deficiency Identified	Previously Identified Deficiency Persists	Notes
MW-1							X		2/4 bolts missing
MW-2	X	X							
MW-3	X	X							
MW-4	X	X	X						
MW-5	X	X							
BW-D								X	1/3 bolts missing

*Well box must meet all three criteria to be compliant: 1) WELL IS SECURABLE BY DESIGN (12"or less) 2) WELL IS MARKED WITH THE WORDS "MONITORING WELL" (12"or less) 3) WELL TAG IS PRESENT, SECURE, AND CORRECT

Notes:

WELL GAUGING DATA

Project # 081216-ww2 Date 12/16/08 Client Shell

Site 540 Hegenberger Rd, Oakland, CA

Well ID	Time	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	Notes
MW-1	11:54	2"					7.17	22.71		
MW-2	12:01	2"					7.22	19.92		
MW-3	12:11	2"					5.50	18.45		
MW-4	12:42	4"					7.55	18.50		Tr
MW-5	11:58	4"					6.34	18.50		
BW-1	12:08	12"					3.69	12.44		

SHELL WELL MONITORING DATA SHEET

BTS #: 081216-MW1	Site: 540 Hegenberger Rd. Oakland, CA
Sampler: MW CM	Date: 12/16/08
Well I.D.: MW-1	Well Diameter: (2) 3 4 6 8 ___
Total Well Depth (TD): 22.71	Depth to Water (DTW): 7.17
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]: 10.28	

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

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

2.5 (Gals.) X	3	=	7.5 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
14:46	62.4	6.97	14.07	>1000	2.5	
14:49	64.1	6.93	15.12	>1000	5.0	
14:51	64.6	6.94	15.87	>1000	7.5	

Did well dewater? Yes (No) Gallons actually evacuated: 7.5

Sampling Date: 12/16/08 Sampling Time: 1530 Depth to Water: 9.76

Sample I.D.: MW-1 Laboratory: STL Other Cal Science

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

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 #: 08216-WW2	Site: 540 Hegenberger Rd
Sampler: WW CM	Date: 12/16/08
Well I.D.: MW-2	Well Diameter: (2) 3 4 6 8 ____
Total Well Depth (TD): 19.92	Depth to Water (DTW): 7.22
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]: 9.76	

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

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

2.0 (Gals.) X	3	=	6.0 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 (µS))	Turbidity (NTUs)	Gals. Removed	Observations
1357	62.2	7.21	673.0	456	2.0	
1358	64.0	7.10	~~1000~~ 770 cm	<1000	4.0	
1359	64.1	7.03	790	<1000	6.0	

Did well dewater? Yes (No) Gallons actually evacuated: 6.0

Sampling Date: 12/16/08 Sampling Time: 1459 Depth to Water: 8.92

Sample I.D.: MW-2 Laboratory: STL Other CALSCIENCE

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

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 #: 081216-WW1	Site: 540 Hegenberger Rd. Oakland, CA
Sampler: WW CM	Date: 12/16/08
Well I.D.: MW-3	Well Diameter: (2) 3 4 6 8 ____
Total Well Depth (TD): 18.45	Depth to Water (DTW): 5.50
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]: 7.09	

Purge Method: X Bailer / Disposable Bailer / Positive Air Displacement / Electric Submersible / Waterra / Peristaltic / Extraction Pump / Other____

Sampling Method: X Bailer / Disposable Bailer / Extraction Port / Dedicated Tubing / Other:____

2.1 (Gals.) X 3 = 6.3 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 (uS))	Turbidity (NTUs)	Gals. Removed	Observations
1415	62.9	7.00	8684	564	2.1	odor
1418	62.7	7.08	8784	>1000	4.2	"
1421	62.6	7.18	9576	>1000	6.3	"

Did well dewater? Yes (No) Gallons actually evacuated: 6.3

Sampling Date: 12-16/08 Sampling Time: 1426 Depth to Water: 7.95

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

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

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 #: 081216-WW1	Site: 540 Hegenberger Rd, Oakland, CA
Sampler: WW CM	Date: 12/16/08
Well I.D.: MW-4	Well Diameter: 2 3 (4) 6 8 ___
Total Well Depth (TD): 18.50	Depth to Water (DTW): 7.55
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]: 9.74	

Purge Method: Bailer / Disposable Bailer / Positive Air Displacement / (Electric Submersible) / Waterra / Peristaltic / Extraction Pump / Other ___

Sampling Method: ~~Bailer~~ WW / (Disposable Bailer) / Extraction Port / Dedicated Tubing / Other: ___

1 Case Volume		Specified Volumes		Calculated Volume
7.1	(Gals.) X	3	=	21.3 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
12:48	65.0	6.80	4875	90	7.1	
12:49	66.7	7.02	4805	77	14.2	
12:51	67.5	7.07	4868	73	21.3	

Did well dewater? Yes (No) Gallons actually evacuated: 21.3

Sampling Date: 12/16/08 Sampling Time: 12:55 Depth to Water: 10.11 (Traffic)

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

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

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 #: 081216-MW1	Site: 540 Hegenberger Rd, Oakland, CA
Sampler: WN CM	Date: 12/16/08
Well I.D.: MW-5	Well Diameter: 2 3 (4) 6 8 ___
Total Well Depth (TD): 18.50	Depth to Water (DTW): 6.34
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]: ~~7.80~~ 8.78	

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:_____

7.9 (Gals.) X	3	=	23.7 Gals.
1 Case Volume	Specified Volumes		Calculated Volume

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

Time	Temp (°F)	pH	Cond. (mS or µS)	Turbidity (NTUs)	Gals. Removed	Observations
45 1433	62.7	7.67	1006.0	431	7.9	
1435	66.6	7.37	827.3	295	15.8	
15 1436	65.1	7.33	990.6	<1000	23.7	

Did well dewater? Yes (No) Gallons actually evacuated: 23.7

Sampling Date: 12/16/08 Sampling Time: 16:40 Depth to Water: 13.81 (2 hrs)

Sample I.D.: MW-5 Laboratory: STL Other Cal Science

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

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 #: 081216-mw1	Site: ~~50~~ 540 Hegenberger Rd, Oakland, CA
Sampler: MW CM	Date: 12/16/08
Well I.D.: BW-D	Well Diameter: 2 3 4 6 8 12
Total Well Depth (TD): 12.44	Depth to Water (DTW): 3.69
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]: 5.44	

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:_____

1 Case Volume		Specified Volumes		Calculated Volume
51.4	(Gals.) X	3	=	154.2 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
15 1324	61.9	7.49	713.1	21	51.4	
45 1332	62.1	7.10	670.7	14.3	~~103.8~~ 102.8	
15 1341	62.0	7.01	678.5	15.7	154.2	

Did well dewater? Yes (No) Gallons actually evacuated: 154.2

Sampling Date: 12/16/08 Sampling Time: 1347 Depth to Water: 3.71

Sample I.D.: BW-D Laboratory: STL Other Cal Science

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

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