CONESTOGA-ROVERS & ASSOCIATES

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

TRANSMITTAL

DATE: August 20, 2009

REFERENCE NO.: 060204

PROJECT NAME: 2301-2307 Lincoln Avenue, Alameda

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

RECEIVED
2:27 pm, Aug 24, 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 – Second Quarter 2009

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

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

Copy to: Denis Brown, Shell Oil Products US, 20945 S. Wilmington Avenue, Carson, CA 90810
Alan A. and Beverly M. Sebanc, Trustees, 2805 Ralston Avenue, Hillsborough, CA 94010
Jake Torrens, AMEC Geomatrix, Inc., 2101 Webster Street, 12th Floor, Oakland, CA 94612

Completed by: Peter Schaefer Signed: Peter Schaefer

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

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

Subject: 2301-2307 Lincoln Avenue
Alameda, California
SAP Code 165255
Incident No. 97767044
Agency No. RO0002971

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.

As always, please feel free to contact me directly at (707) 865-0251 with any questions or concerns.

Sincerely,

Denis L. Brown
Project Manager

GROUNDWATER MONITORING REPORT - SECOND QUARTER 2009

FORMER SHELL SERVICE STATION
2301-2307 LINCOLN AVENUE
ALAMEDA, CALIFORNIA

SAP CODE	165255
INCIDENT NO.	97767044
AGENCY NO.	RO0002971

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

AUGUST 20, 2009
REF. NO. 060204 (5)
This report is printed on recycled paper.

TABLE OF CONTENTS

LIST OF FIGURES
(Following Text)

LIST OF APPENDICES

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	2301-2307 Lincoln Avenue, Alameda
Site Use	Strip mall
Shell Project Manager	Denis Brown
CRA Project Manager	Peter Schaefer
Lead Agency and Contact	ACHCSA, Jerry Wickham
Agency Case No.	RO0002971
Shell SAP Code	165255
Shell Incident No.	97767044

Date of most recent agency correspondence was July 24, 2009.

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 the 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	7.35 to 8.50 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.

Per Alameda Health Care Services Agency's (ACHCSA's) June 23, 2009 letter, CRA will submit a work plan to further assess the potential for soil vapor intrusion to indoor air and to evaluate the groundwater monitoring data by August 28, 2009.

2.4 DISCUSSION

CRA will sample all monitoring wells quarterly for one hydrologic cycle (1 year, through the fourth quarter of 2009) and then, as approved in ACHCSA's July 24, 2009 letter and per State Water Resources Control Board Resolution 2009-0042 adopted May 19, 2009, we will implement a semiannual monitoring and reporting schedule at the site, with sampling conducted during the second and fourth quarters.

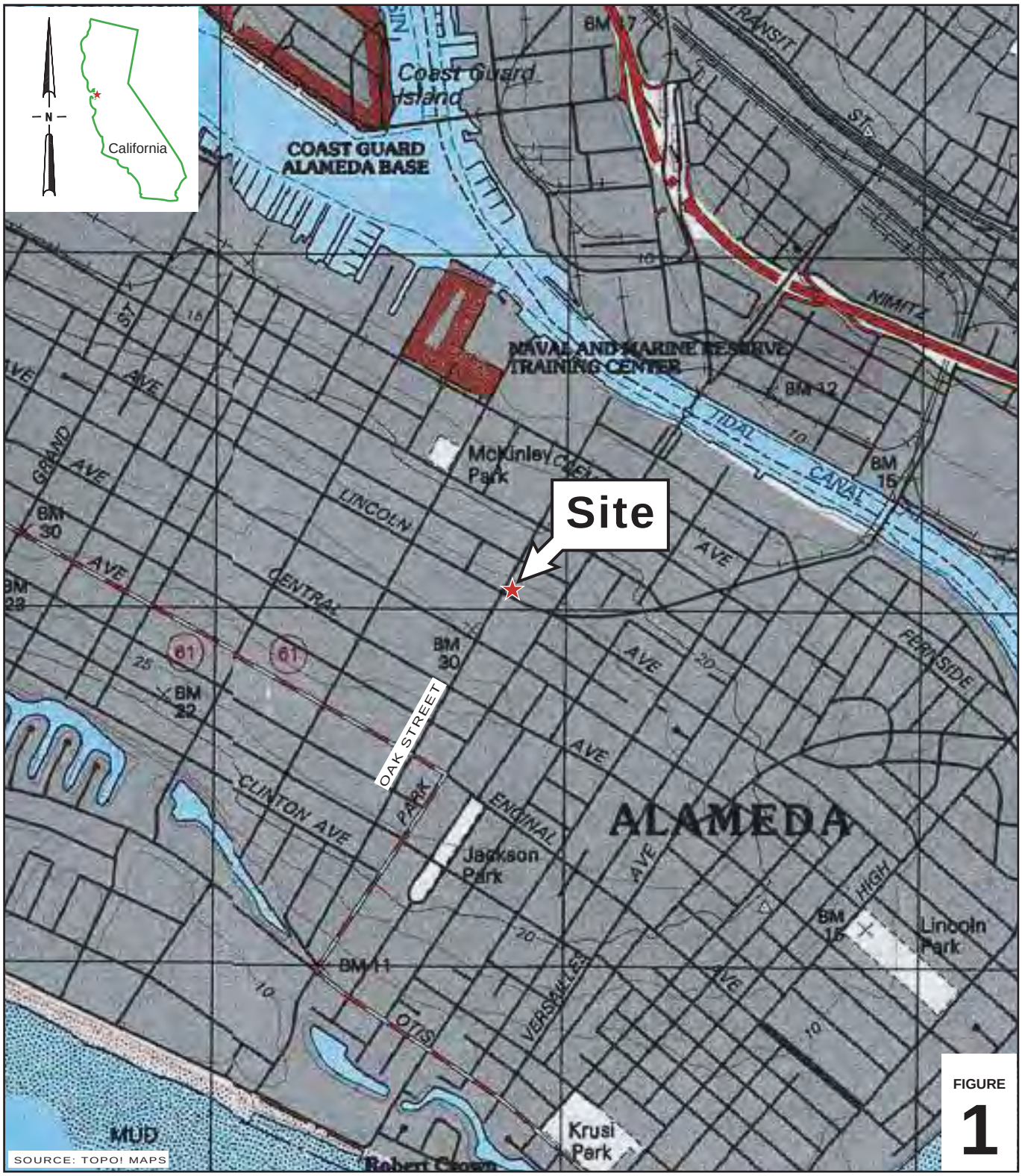
All of Which is Respectfully Submitted,
CONESTOGA-ROVERS & ASSOCIATES

Peter Schaefer, CEG, CHG

Aubrey K. Cool, PG

FIGURES

12/01/08



SOURCE: TOPO! MAPS

FIGURE 1

0 1/8 1/4 1/2 1

SCALE : 1" = 1/4 MILE

I:\Shell\6-chars\0602--\060204-Alameda 2301-2307 Lincoln Ave\060204 FIGURES\060204 VICINITY.AI

Former Shell Service Station

2301-2307 Lincoln Avenue

Alameda, California

CONESTOGA-ROVERS & ASSOCIATES

Vicinity Map

08/14/09

Groundwater Contour and Chemical Concentration Map

May 22, 2009

EXPLANATION

MW-1 — Monitoring well location

- Electrical & Telecommunications line (E)
- Telecommunications & Cable TV line (T)
- Gas line (G)
- Storm drain line (STM)
- Sanitary sewer line (SAN)
- Water line (W)

Sources:

1. Sanborn Fire Insurance Map, 1950
2. Majors Civil Engineering, 1982

XX.XX — Groundwater elevation contour, in feet above mean sea level (msl)

Well
ELEV
TPHg
Benzene

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

Notes:
ND = Not detected

OAK STREET

LINCOLN AVENUE

Former 76 Station

Former Shell Station
2301-2307 Lincoln Avenue

Alameda County Police Dept.

Alameda Free Library

Former Gasoline & Oil USTs (installed in 1920s)

Former Building (circa 1950) [1]

Former Tire Recapping Facility (circa 1950) [1]

Former Building (circa 1950) [1]

7-11 Store Building

Former Oil Sump (circa 1982) [2]

Former Station Building (circa 1982) [2]

Former Dispensers (circa 1982) [2]

Former USTs (installed in 1970s)

Laundorland Building

Commercial Building

Agronomic Property Lines

Sidewalk

Planter

Parking

Overhang

Well	ELEV	TPHg	Benzene
MW-1	18.07	3,900	2.6
MW-2	18.21	ND	ND
MW-3	18.21	ND	ND
MW-4	18.17	3,500	280
MW-5	18.21	ND	ND
MW-6	18.18	ND	ND
MW-7	18.19	ND	ND
MW-8	18.29	ND	ND

18.16

18.08

18.24

N

0 15 30 60

Scale (ft)

Basemap modified from data from Virgil Chavez Land Surveying and drawing provided by Geomatrix

FIGURE

2

Former Shell Service Station

2301-2307 Lincoln Avenue

Alameda, California

CONESTOGA-ROVERS & ASSOCIATES

I:\Shell\6-chars\0602--\060204-Alameda 2301-2307 Lincoln Ave\060204-REPORTS\060204-RPT5-2Q09\060204 2QM09-GW.DWG

APPENDIX A

BLAINE TECH SERVICES, INC. – GROUNDWATER MONITORING REPORT

BLAINE
TECH SERVICES INC.

GROUNDWATER SAMPLING SPECIALISTS
SINCE 1985

June 10, 2009

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

Second Quarter 2009 Groundwater Monitoring at
Former Shell Service Station
2301-2307 Lincoln Avenue
Alameda, CA

Monitoring performed on May 22, 2009

Groundwater Monitoring Report **090522-AC-1**

This report covers the routine monitoring of groundwater wells at this former Shell service station. 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.

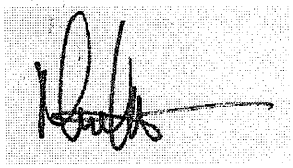
Basic field information is presented alongside analytical values excerpted from the laboratory report in the cumulative table of **WELL CONCENTRATIONS**. The full analytical report for the most recent samples and the field data sheets are attached to this report.

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/jb

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

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

WELL CONCENTRATIONS
2301-2307 Lincoln Avenue
Alameda, CA

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)
MW-1	03/16/2009	NA	NA	NA	NA	NA	25.77	8.24	17.53
MW-1	03/27/2009	13,000	9.7	<10	<10	<10	25.77	7.09	18.68
MW-1	**05/22/2009**	**3,900**	**2.6**	**<2.0**	**<2.0**	**<2.0**	**25.77**	**7.70**	**18.07**
MW-2	03/16/2009	NA	NA	NA	NA	NA	26.09	8.54	17.55
MW-2	03/27/2009	<50	<0.50	<1.0	<1.0	<1.0	26.09	8.16	17.93
MW-2	**05/22/2009**	**<50**	**<0.50**	**<1.0**	**<1.0**	**<1.0**	**26.09**	**7.88**	**18.21**
MW-3	03/16/2009	NA	NA	NA	NA	NA	25.56	6.06	19.50
MW-3	03/27/2009	<50	<0.50	<1.0	<1.0	<1.0	25.56	6.37	19.19
MW-3	**05/22/2009**	**<50**	**<0.50**	**<1.0**	**<1.0**	**<1.0**	**25.56**	**7.35**	**18.21**
MW-4	03/16/2009	NA	NA	NA	NA	NA	26.60	7.43	19.17
MW-4	03/27/2009	3,900	170	25	190	360	26.60	7.50	19.10
MW-4	**05/22/2009**	**3,500**	**280**	**19**	**270**	**220**	**26.60**	**8.43**	**18.17**
MW-5	03/16/2009	NA	NA	NA	NA	NA	26.63	7.21	19.42
MW-5	03/27/2009	<50	<0.50	<1.0	<1.0	<1.0	26.63	7.74	18.89
MW-5	**05/22/2009**	**<50**	**<0.50**	**<1.0**	**<1.0**	**<1.0**	**26.63**	**8.42**	**18.21**
MW-6	03/16/2009	NA	NA	NA	NA	NA	26.61	7.31	19.30
MW-6	03/27/2009	<50	<0.50	<1.0	<1.0	<1.0	26.61	7.82	18.79
MW-6	**05/22/2009**	**<50**	**<0.50**	**<1.0**	**<1.0**	**<1.0**	**26.61**	**8.43**	**18.18**

WELL CONCENTRATIONS
2301-2307 Lincoln Avenue
Alameda, CA

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)
MW-7	03/16/2009	NA	NA	NA	NA	NA	26.69	7.35	19.34
MW-7	03/27/2009	54	<0.50	<1.0	<1.0	<1.0	26.69	7.62	19.07
MW-7	**05/22/2009**	**<50**	**<0.50**	**<1.0**	**<1.0**	**<1.0**	**26.69**	**8.50**	**18.19**
MW-8	03/16/2009	NA	NA	NA	NA	NA	26.05	6.81	19.24
MW-8	03/27/2009	<50	<0.50	<1.0	<1.0	<1.0	26.05	7.04	19.01
MW-8	**05/22/2009**	**<50**	**<0.50**	**<1.0**	**<1.0**	**<1.0**	**26.05**	**7.76**	**18.29**

Abbreviations:
TPPH = Total petroleum hydrocarbons as gasoline by EPA Method 8260B
BTEX = Benzene, toluene, ethylbenzene, xylenes by EPA Method 8260B
TOC = Top of Casing Elevation
GW = Groundwater
DO = Dissolved Oxygen
ug/L = Parts per billion
ppm = Parts per million
MSL = Mean sea level
ft. = Feet
<n = Below detection limit
NA = Not applicable
ND = Not detected

Notes:

Calscience
Environmental
Laboratories, Inc.

June 08, 2009

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

Subject: **Calscience Work Order No.:** **09-05-2132**
Client Reference: **2301 - 2307 Lincoln Ave., Alameda, CA**

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 5/23/2009 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 Lee
Project Manager

Calscience Environmental Laboratories, Inc.

Analytical Report

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

Date Received:	05/23/09
Work Order No:	09-05-2132
Preparation:	EPA 5030B
Method:	LUFT GC/MS / EPA 8260B
Units:	ug/L

Project: 2301 - 2307 Lincoln Ave., Alameda, CA

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-1	09-05-2132-1-B	05/22/09 09:42	Aqueous	GC/MS RR	06/04/09	06/04/09 17:41	090604L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	2.6	1.0	2		Xylenes (total)	ND	2.0	2	
Ethylbenzene	ND	2.0	2		TPPH	3900	100	2	
Toluene	ND	2.0	2						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	102	74-140		1,2-Dichloroethane-d4	100	74-146	
Toluene-d8	105	88-112		Toluene-d8-TPPH	104	88-112	
1,4-Bromofluorobenzene	98	74-110					

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-2	09-05-2132-2-A	05/22/09 10:07	Aqueous	GC/MS LL	06/03/09	06/03/09 16:59	090603L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.50	1		Xylenes (total)	ND	1.0	1	
Ethylbenzene	ND	1.0	1		TPPH	ND	50	1	
Toluene	ND	1.0	1						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	107	74-140		1,2-Dichloroethane-d4	104	74-146	
Toluene-d8	96	88-112		Toluene-d8-TPPH	97	88-112	
1,4-Bromofluorobenzene	100	74-110					

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-3	09-05-2132-3-A	05/22/09 10:25	Aqueous	GC/MS LL	06/03/09	06/03/09 18:20	090603L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.50	1		Xylenes (total)	ND	1.0	1	
Ethylbenzene	ND	1.0	1		TPPH	ND	50	1	
Toluene	ND	1.0	1						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	109	74-140		1,2-Dichloroethane-d4	107	74-146	
Toluene-d8	100	88-112		Toluene-d8-TPPH	100	88-112	
1,4-Bromofluorobenzene	101	74-110					

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

Calscience Environmental Laboratories, Inc.

Analytical Report

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

Date Received: 05/23/09
Work Order No: 09-05-2132
Preparation: EPA 5030B
Method: LUFT GC/MS / EPA 8260B
Units: ug/L

Project: 2301 - 2307 Lincoln Ave., Alameda, CA

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-4	09-05-2132-4-A	05/22/09 12:30	Aqueous	GC/MS LL	06/03/09	06/03/09 18:47	090603L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	280	1.0	2		Xylenes (total)	220	2.0	2	
Ethylbenzene	270	2.0	2		TPPH	3500	100	2	
Toluene	19	2.0	2						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	105	74-140		1,2-Dichloroethane-d4	99	74-146	
Toluene-d8	97	88-112		Toluene-d8-TPPH	98	88-112	
1,4-Bromofluorobenzene	103	74-110					

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-5	09-05-2132-5-A	05/22/09 12:10	Aqueous	GC/MS T	06/02/09	06/03/09 07:24	090602L02

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.50	1		Xylenes (total)	ND	1.0	1	
Ethylbenzene	ND	1.0	1		TPPH	ND	50	1	
Toluene	ND	1.0	1						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	99	74-140		1,2-Dichloroethane-d4	91	74-146	
Toluene-d8	102	88-112		Toluene-d8-TPPH	102	88-112	
1,4-Bromofluorobenzene	95	74-110					

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-6	09-05-2132-6-A	05/22/09 12:20	Aqueous	GC/MS T	06/02/09	06/03/09 07:52	090602L02

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.50	1		Xylenes (total)	ND	1.0	1	
Ethylbenzene	ND	1.0	1		TPPH	ND	50	1	
Toluene	ND	1.0	1						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	98	74-140		1,2-Dichloroethane-d4	92	74-146	
Toluene-d8	101	88-112		Toluene-d8-TPPH	101	88-112	
1,4-Bromofluorobenzene	95	74-110					

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

Calscience Environmental Laboratories, Inc.

Analytical Report

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

Date Received: 05/23/09
Work Order No: 09-05-2132
Preparation: EPA 5030B
Method: LUFT GC/MS / EPA 8260B
Units: ug/L

Project: 2301 - 2307 Lincoln Ave., Alameda, CA

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-7	09-05-2132-7-A	05/22/09 11:57	Aqueous	GC/MS T	06/02/09	06/03/09 08:21	090602L02

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.50	1		Xylenes (total)	ND	1.0	1	
Ethylbenzene	ND	1.0	1		TPPH	ND	50	1	
Toluene	ND	1.0	1						
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	99	74-140			1,2-Dichloroethane-d4	90	74-146		
Toluene-d8	101	88-112			Toluene-d8-TPPH	101	88-112		
1,4-Bromofluorobenzene	95	74-110							

MW-8	09-05-2132-8-A	05/22/09 11:49	Aqueous	GC/MS T	06/02/09	06/03/09 08:49	090602L02

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.50	1		Xylenes (total)	ND	1.0	1	
Ethylbenzene	ND	1.0	1		TPPH	ND	50	1	
Toluene	ND	1.0	1						
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	100	74-140			1,2-Dichloroethane-d4	94	74-146		
Toluene-d8	102	88-112			Toluene-d8-TPPH	102	88-112		
1,4-Bromofluorobenzene	96	74-110							

Method Blank	099-12-767-1,903	N/A	Aqueous	GC/MS T	06/02/09	06/03/09 01:13	090602L02

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.50	1		Xylenes (total)	ND	1.0	1	
Ethylbenzene	ND	1.0	1		TPPH	ND	50	1	
Toluene	ND	1.0	1						
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	102	74-140			1,2-Dichloroethane-d4	102	74-146		
Toluene-d8	101	88-112			Toluene-d8-TPPH	101	88-112		
1,4-Bromofluorobenzene	96	74-110							

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

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

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

Date Received: 05/23/09
Work Order No: 09-05-2132
Preparation: EPA 5030B
Method: LUFT GC/MS / EPA 8260B
Units: ug/L

Project: 2301 - 2307 Lincoln Ave., Alameda, CA

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-12-767-1,904	N/A	Aqueous	GC/MS LL	06/03/09	06/03/09 15:38	090603L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.50	1		Xylenes (total)	ND	1.0	1	
Ethylbenzene	ND	1.0	1		TPPH	ND	50	1	
Toluene	ND	1.0	1						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	104	74-140		1,2-Dichloroethane-d4	104	74-146	
Toluene-d8	96	88-112		Toluene-d8-TPPH	97	88-112	
1,4-Bromofluorobenzene	101	74-110					

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-12-767-1,911	N/A	Aqueous	GC/MS RR	06/04/09	06/04/09 15:09	090604L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.50	1		Xylenes (total)	ND	1.0	1	
Ethylbenzene	ND	1.0	1		TPPH	ND	50	1	
Toluene	ND	1.0	1						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	104	74-140		1,2-Dichloroethane-d4	103	74-146	
Toluene-d8	100	88-112		Toluene-d8-TPPH	98	88-112	
1,4-Bromofluorobenzene	97	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:	05/23/09
Work Order No:	09-05-2132
Preparation:	EPA 5030B
Method:	LUFT GC/MS / EPA 8260B

Project 2301 - 2307 Lincoln Ave., Alameda, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
09-05-2058-10	Aqueous	GC/MS T	06/02/09	06/02/09	090602S01

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	91	91	88-118	0	0-7	
Carbon Tetrachloride	88	88	67-145	0	0-11	
Chlorobenzene	92	93	88-118	1	0-7	
1,2-Dibromoethane	90	91	70-130	2	0-30	
1,2-Dichlorobenzene	93	93	86-116	0	0-8	
1,1-Dichloroethene	92	92	70-130	0	0-25	
Ethylbenzene	93	94	70-130	1	0-30	
Toluene	93	92	87-123	0	0-8	
Trichloroethene	90	90	79-127	0	0-10	
Vinyl Chloride	87	87	69-129	0	0-13	
Methyl-t-Butyl Ether (MTBE)	94	98	71-131	5	0-13	
Tert-Butyl Alcohol (TBA)	107	95	36-168	12	0-45	
Diisopropyl Ether (DIPE)	99	99	81-123	0	0-9	
Ethyl-t-Butyl Ether (ETBE)	97	99	72-126	2	0-12	
Tert-Amyl-Methyl Ether (TAME)	96	99	72-126	3	0-12	
Ethanol	110	95	53-149	15	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: 05/23/09
Work Order No: 09-05-2132
Preparation: EPA 5030B
Method: LUFT GC/MS / EPA 8260B

Project 2301 - 2307 Lincoln Ave., Alameda, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
MW-2	Aqueous	GC/MS LL	06/03/09	06/03/09	090603S01

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	91	91	88-118	0	0-7	
Carbon Tetrachloride	106	104	67-145	2	0-11	
Chlorobenzene	95	92	88-118	4	0-7	
1,2-Dibromoethane	102	98	70-130	4	0-30	
1,2-Dichlorobenzene	96	95	86-116	2	0-8	
1,1-Dichloroethene	96	100	70-130	4	0-25	
Ethylbenzene	97	93	70-130	4	0-30	
Toluene	95	91	87-123	4	0-8	
Trichloroethene	91	91	79-127	0	0-10	
Vinyl Chloride	108	105	69-129	3	0-13	
Methyl-t-Butyl Ether (MTBE)	96	98	71-131	2	0-13	
Tert-Butyl Alcohol (TBA)	105	99	36-168	6	0-45	
Diisopropyl Ether (DIPE)	97	95	81-123	2	0-9	
Ethyl-t-Butyl Ether (ETBE)	98	98	72-126	1	0-12	
Tert-Amyl-Methyl Ether (TAME)	95	94	72-126	1	0-12	
Ethanol	91	86	53-149	7	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: 05/23/09
Work Order No: 09-05-2132
Preparation: EPA 5030B
Method: LUFT GC/MS / EPA 8260B

Project 2301 - 2307 Lincoln Ave., Alameda, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
09-05-2263-3	Aqueous	GC/MS RR	06/04/09	06/04/09	090604S01

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	104	103	88-118	1	0-7	
Carbon Tetrachloride	105	110	67-145	4	0-11	
Chlorobenzene	100	100	88-118	0	0-7	
1,2-Dibromoethane	106	103	70-130	3	0-30	
1,2-Dichlorobenzene	100	99	86-116	1	0-8	
1,1-Dichloroethene	104	103	70-130	1	0-25	
Ethylbenzene	102	101	70-130	0	0-30	
Toluene	104	103	87-123	1	0-8	
Trichloroethene	101	101	79-127	0	0-10	
Vinyl Chloride	112	112	69-129	0	0-13	
Methyl-t-Butyl Ether (MTBE)	104	101	71-131	2	0-13	
Tert-Butyl Alcohol (TBA)	105	100	36-168	5	0-45	
Diisopropyl Ether (DIPE)	105	103	81-123	2	0-9	
Ethyl-t-Butyl Ether (ETBE)	100	99	72-126	2	0-12	
Tert-Amyl-Methyl Ether (TAME)	98	96	72-126	2	0-12	
Ethanol	89	88	53-149	1	0-31	

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: 09-05-2132
Preparation: EPA 5030B
Method: LUFT GC/MS / EPA 8260B

Project: 2301 - 2307 Lincoln Ave., Alameda, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-767-1,903	Aqueous	GC/MS T	06/02/09	06/03/09	090602L02

Parameter	LCS %REC	LCSD %REC	%REC CL	ME CL	RPD	RPD CL	Qualifiers
Benzene	101	105	84-120	78-126	4	0-8	
Carbon Tetrachloride	103	109	63-147	49-161	5	0-10	
Chlorobenzene	101	104	89-119	84-124	4	0-7	
1,2-Dibromoethane	97	102	80-120	73-127	5	0-20	
1,2-Dichlorobenzene	96	102	89-119	84-124	7	0-9	
1,1-Dichloroethene	108	113	77-125	69-133	4	0-16	
Ethylbenzene	105	108	80-120	73-127	3	0-20	
Toluene	103	107	83-125	76-132	4	0-9	
Trichloroethene	107	110	89-119	84-124	3	0-8	
Vinyl Chloride	102	107	63-135	51-147	4	0-13	
Methyl-t-Butyl Ether (MTBE)	98	96	82-118	76-124	2	0-13	
Tert-Butyl Alcohol (TBA)	99	119	46-154	28-172	18	0-32	
Diisopropyl Ether (DIPE)	103	108	81-123	74-130	5	0-11	
Ethyl-t-Butyl Ether (ETBE)	98	100	74-122	66-130	1	0-12	
Tert-Amyl-Methyl Ether (TAME)	98	100	76-124	68-132	2	0-10	
Ethanol	100	127	60-138	47-151	23	0-32	
TPPH	93	90	65-135	53-147	2	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.

Quality Control - LCS/LCS Duplicate

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

Date Received: N/A
Work Order No: 09-05-2132
Preparation: EPA 5030B
Method: LUFT GC/MS / EPA 8260B

Project: 2301 - 2307 Lincoln Ave., Alameda, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-767-1,904	Aqueous	GC/MS LL	06/03/09	06/03/09	090603L01

Parameter	LCS %REC	LCSD %REC	%REC CL	ME_CL	RPD	RPD CL	Qualifiers
Benzene	98	97	84-120	78-126	1	0-8	
Carbon Tetrachloride	112	112	63-147	49-161	0	0-10	
Chlorobenzene	97	98	89-119	84-124	1	0-7	
1,2-Dibromoethane	101	101	80-120	73-127	1	0-20	
1,2-Dichlorobenzene	98	98	89-119	84-124	1	0-9	
1,1-Dichloroethene	112	106	77-125	69-133	6	0-16	
Ethylbenzene	100	100	80-120	73-127	1	0-20	
Toluene	101	98	83-125	76-132	3	0-9	
Trichloroethene	104	100	89-119	84-124	4	0-8	
Vinyl Chloride	114	111	63-135	51-147	2	0-13	
Methyl-t-Butyl Ether (MTBE)	100	99	82-118	76-124	1	0-13	
Tert-Butyl Alcohol (TBA)	102	101	46-154	28-172	2	0-32	
Diisopropyl Ether (DIPE)	101	98	81-123	74-130	3	0-11	
Ethyl-t-Butyl Ether (ETBE)	102	100	74-122	66-130	3	0-12	
Tert-Amyl-Methyl Ether (TAME)	99	98	76-124	68-132	2	0-10	
Ethanol	89	82	60-138	47-151	8	0-32	
TPPH	95	91	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.

Quality Control - LCS/LCS Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

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

Date Received: N/A
Work Order No: 09-05-2132
Preparation: EPA 5030B
Method: LUFT GC/MS / EPA 8260B

Project: 2301 - 2307 Lincoln Ave., Alameda, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-767-1,911	Aqueous	GC/MS RR	06/04/09	06/04/09	090604L01

Parameter	LCS %REC	LCSD %REC	%REC CL	ME CL	RPD	RPD CL	Qualifiers
Benzene	105	106	84-120	78-126	1	0-8	
Carbon Tetrachloride	109	116	63-147	49-161	5	0-10	
Chlorobenzene	100	102	89-119	84-124	2	0-7	
1,2-Dibromoethane	104	107	80-120	73-127	3	0-20	
1,2-Dichlorobenzene	100	101	89-119	84-124	0	0-9	
1,1-Dichloroethene	107	114	77-125	69-133	7	0-16	
Ethylbenzene	102	103	80-120	73-127	1	0-20	
Toluene	104	105	83-125	76-132	1	0-9	
Trichloroethene	104	105	89-119	84-124	0	0-8	
Vinyl Chloride	110	123	63-135	51-147	11	0-13	
Methyl-t-Butyl Ether (MTBE)	101	105	82-118	76-124	3	0-13	
Tert-Butyl Alcohol (TBA)	97	98	46-154	28-172	1	0-32	
Diisopropyl Ether (DIPE)	107	108	81-123	74-130	1	0-11	
Ethyl-t-Butyl Ether (ETBE)	100	101	74-122	66-130	1	0-12	
Tert-Amyl-Methyl Ether (TAME)	97	100	76-124	68-132	3	0-10	
Ethanol	94	80	60-138	47-151	16	0-32	
TPPH	94	97	65-135	53-147	3	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: 09-05-2132

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.
	Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture.

(2132)

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

INCIDENT # (ENV SERVICES): 9 7 7 6 7 0 4 4 ☐ CHECK IF NO INCIDENT # APPLIES

DATE: 5/22/09

PAGE: 1 of 1

PO #:

SAP #:

SAMPLING COMPANY: Blaine Tech Services

LOG CODE: BTSS

SITE ADDRESS: Street and City: 2301 - 2307 Lincoln Ave., Alameda

State: CA

GLOBAL ID NO.: T06179714590

ADDRESS: 1680 Rogers Ave, San Jose, CA 95112

EDF DELIVERABLE TO (Name, Company, Office Location): Anni Kreml, CRA, Emeryville Office

PHONE NO.: (510) 420-3335

E-MAIL: shelledf@craworld.com

CONSULTANT PROJECT NO.: BTS # 090522-ACI

PROJECT CONTACT (Hardcopy or PDF Report to): Michael Ninokata

TELEPHONE: (408)573-0555

FAX: (408)573-7771

E-MAIL: mninokata@blainetech.com

SAMPLER NAME(S) (Print): A. Carothers

LAB USE ONLY: 09-05-2132

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

REQUESTED ANALYSIS

- ☐ LA - RWQCB REPORT FORMAT
- ☐ UST AGENCY:

SPECIAL INSTRUCTIONS OR NOTES :
- ☐ SHELL CONTRACT RATE APPLIES
- ☐ STATE REIMBURSEMENT RATE APPLIES
- ☐ EDD NOT NEEDED
- ☑ RECEIPT VERIFICATION REQUESTED

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)	TEMPERATURE ON RECEIPT C° / Container PID Readings or Laboratory Notes
1	MW-1	5/22/09	0948	W	3					3	X		X											
2	MW-2		1007								X		X											
3	MW-3		1025								X		X											
4	MW-4		1230								X		X											
5	MW-5		1210								X		X											
6	MW-6		1220								X		X											
7	MW-7		1157								X		X											
8	MW-8		1149								X		X											

	Relinquished by: (Signature)	Received by: (Signature)	Date	Time
	[signature]	Aaron Carothers (sample custodian)	5/22/09	1425
	Shipped via GSO (GSO)5119204157	[signature]	5/23/09	0930

05/2/06 Revision

Calscience Environmental Laboratories, Inc.

WORK ORDER #: 09-05- 2 1 3 2

SAMPLE RECEIPT FORM

Cooler 1 of 1

CLIENT: BTS

DATE: 05/23/09

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

Temperature 3.3 °C - 0.2 °C (CF) = 3.1 °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:** _____

CUSTODY SEALS INTACT:

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

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

SAMPLE CONDITION:	Yes	No	N/A
Chain-Of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☑	☐	☐
☐ Collection date/time, matrix, and/or # of containers logged in based on sample labels.			
☐ COC not relinquished. ☐ No date relinquished. ☐ No time relinquished.			
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	☑	☐	☐
☐ Unpreserved vials received for Volatiles analysis			
Volatile analysis container(s) free of headspace	☑	☐	☐
Tedlar bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE:

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

Water: ☐VOA ☑VOA**h** ☐VOA**na$_2$** ☐125AGB ☐125AGB**h** ☐125AGB**p** ☐1AGB ☐1AGB**na$_2$** ☐1AGB**s** ☐500AGB ☐500AGJ ☐500AGJ**s** ☐250AGB ☐250CGB ☐250CGB**s** ☐1PB ☐500PB ☐500PB**na** ☐250PB ☐250PB**n** ☐125PB ☐125PB**znna** ☐100PB ☐100PB**na$_2$** ☐_____ ☐_____ ☐_____

Air: ☐Tedlar® ☐Summa® ☐_____ **Other:** ☐_____ **Checked/Labeled by:** _____

Container: C: Clear A: Amber P: Plastic G: Glass J: Jar (Wide-mouth) B: Bottle (Narrow-mouth) **Reviewed by:** _____

Preservative: h: HCL n: HNO3 na$_2$:$Na_2S_2O_3$ Na: NaOH p: H_3PO_4 s: H_2SO_4 znna: $ZnAc_2$+NaOH f: Field-filtered **Scanned by:** _____

WELL GAUGING DATA

Project # 090522-AC1 Date 5/22/09 Client Shell

Site 2301-2307 Lincoln Ave, Alameda, 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	0736	1					07.70	12.91		
mw-2	0728	1					07.88	12.42		
mw-3	0732	1					07.35	11.56		
mw-4	0715	4					08.43	17.74		
mw-5	0725	4					08.42	17.85		
mw-6	0720	4					08.43	17.76		
mw-7	0710	4					08.50	17.67		
mw-8	0705	4					07.76	17.48	✓	

SHELL WELL MONITORING DATA SHEET

BTS #: 090522-AC1	Site: 2301-2307 Lincoln Ave, Alameda
Sampler: AC	Date: 5/22/09
Well I.D.: mw-1	Well Diameter: 2 3 4 6 8 (1)
Total Well Depth (TD): 12.91	Depth to Water (DTW): 07.70
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]: 8.74	

Purge Method: Bailer; Disposable Bailer; Positive Air Displacement; Electric Submersible; Waterra; X Peristaltic; Extraction Pump; ~~Other~~ ~~New Tubing~~ DC

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

0.2 (Gals.) X 3 = 0.6 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
0935	65.6	7.7	474.4	125	0.2	clear
0936	66.3	7.3	481.3	113	0.4	"
0937	65.5	7.1	461.2	272	0.6	"
						~~DTW~~

Did well dewater? Yes (No) Gallons actually evacuated: 0.6

Sampling Date: 5/22/09 Sampling Time: 0942 Depth to Water: 8.60

Sample I.D.: mw-1 Laboratory: (CalScience) Columbia Other _____

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other: See COC

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

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) 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

SHEET WELL MONITORING DATA SHEET

BTS #: 090522-AC1	Site: 2301-2307 Lincoln Ave, Alameda
Sampler: AC	Date: 5/22/09
Well I.D.: mw-2	Well Diameter: 2 3 4 6 8 (10)
Total Well Depth (TD): 12.42	Depth to Water (DTW): 07.88
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]: 8.78	

Purge Method: Bailer; Disposable Bailer; Positive Air Displacement; Electric Submersible; Waterra; X Peristaltic; Extraction Pump; ~~X Other New Tubing~~ or

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

0.2 (Gals.) X 3 = 0.6 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
1000	71.5	7.1	1087	161	0.2	clear
1001	71.2	7.0	1107	60	~~0.2~~ 0.4	clear
1002	71.1	7.0	1054	425	~~0.2~~ 0.6	slightly cloudy

Did well dewater? Yes (No) Gallons actually evacuated: 0.6

Sampling Date: 5/22/09 Sampling Time: 1007 Depth to Water: 8.05

Sample I.D.: mw-2 Laboratory: (CalScience) Columbia Other_____

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other: See COC

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

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) 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

SHEET WELL MONITORING DATA SHEET

BTS #: 090522-AC1	Site: 2301 - 2307 Lincoln Ave, Alameda
Sampler: AC	Date: 5/22/09
Well I.D.: mw-3	Well Diameter: 2 3 4 6 8 (1)
Total Well Depth (TD): 11.56	Depth to Water (DTW): 07.35
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]: 8.19	

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

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

0.2 (Gals.) X 3 = 0.6 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
1017	69.5	7.0	698.1	153	0.2	clear
1018	67.7	6.9	714.5	42.7	0.4	"
1019	67.6	6.9	718.9	23.7	0.6	"

Did well dewater? Yes (No) Gallons actually evacuated: 0.6

Sampling Date: 5/22/09 Sampling Time: 1025 Depth to Water: 7.95

Sample I.D.: mw-3 Laboratory: (CalScience) Columbia Other_____

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other: See COC

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

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) 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

SHEET WELL MONITORING DATA SHEET

BTS #: 090522-AC1	Site: 2301 - 2307 Lincoln Ave, Alameda
Sampler: AC	Date: 5/22/09
Well I.D.: mw-4	Well Diameter: 2 3 (4) 6 8 ____
Total Well Depth (TD): 17.74	Depth to Water (DTW): 08.43
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]: 10.29	

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: _____

6.1 (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
0910	65.8	7.2	1402	160	6.0	clear
0911	66.6	7.0	1441	24	12.0	"
0912	66.8	7.0	1439	36	18.0	"
						DTW 14.09

Did well dewater? Yes (No) Gallons actually evacuated: 18.0

Sampling Date: 5/22/09 Sampling Time: 1230 Depth to Water: 0845

Sample I.D.: mw-4 Laboratory: (CalScience) Columbia Other_____

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other: See COC

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

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) 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

SHEET - WELL MONITORING DATA SHEET

BTS #: 090522-AC1	Site: 2301-2307 Lincoln Ave, Alameda
Sampler: AC	Date: 5/22/09
Well I.D.: mw-5	Well Diameter: 2 3 (4) 6 8 ___
Total Well Depth (TD): ~~8~~ 17.85	Depth to Water (DTW): 08.42
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]: 10.30	

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: _____

6.1 (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
0831	66.6	7.4	1016	221	6.1	slightly cloudy
0832	68.3	7.2	1058	105	12.2	clear
0833	67.9	7.2	1049	161	18.3	"
						DTW 14.29

Did well dewater? Yes (No) Gallons actually evacuated: ~~DBE~~ 18.3

Sampling Date: 5/22/09 Sampling Time: 1210 Depth to Water: 0845 ~~14.29~~ 14.29

Sample I.D.: mw-5 Laboratory: (CalScience) Columbia Other_____

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other: See COC

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

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) 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 #: 090522-AC1	Site: 2301-2307 Lincoln Ave, Alameda
Sampler: AC	Date: 5/22/09
Well I.D.: MW-6	Well Diameter: 2 3 (4) 6 8 ____
Total Well Depth (TD): 17.76	Depth to Water (DTW): 08.43
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]: 10.29	

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

Sampling Method: Y Bailer, Disposable Bailer, Extraction Port, Dedicated Tubing, Other: ____

6.0 (Gals.) X 3 = 18.0 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
0844	66.8	7.8	1020	63	6.0	clear
0845	68.0	7.5	1001	361	12.0	slightly cloudy
0846	68.1	7.3	1069	313	18.0	"
						DTW 14.21

Did well dewater? Yes (No) Gallons actually evacuated: 18.0

Sampling Date: 5/22/09 Sampling Time: 1220 Depth to Water: 0849 14.21

Sample I.D.: MW-6 Laboratory: (CalScience) Columbia Other____

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other: See COC

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

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) 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

WELL MONITORING DATA SHEET

BTS #: 090522-AC1	Site: 2301-2307 Lincoln Ave, Alameda
Sampler: AC	Date: 5/22/09
Well I.D.: mw-7	Well Diameter: 2 3 (4) 6 8 ___
Total Well Depth (TD): 17.67	Depth to Water (DTW): 08.50
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]: 10.33	

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: _____

6.0 (Gals.) X 3 = 18.0 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	radius² * 0.163

Time	Temp (°F)	pH	Cond. (mS or (µS))	Turbidity (NTUs)	Gals. Removed	Observations
0858	65.4	7.8	937.2	97	6.0	clear
0859	66.1	7.7	1047	132	12.0	"
0900	66.3	7.7	1038	199	18.0	"
						DTW 14.13

Did well dewater? Yes (No) Gallons actually evacuated: 18.0

Sampling Date: 5/22/09 Sampling Time: 1157 Depth to Water:

Sample I.D.: mw-7 Laboratory: (CalScience) Columbia Other_____

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other: See COC

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

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) 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

SHEET WELL MONITORING DATA SHEET

BTS #: 090522-AC1	Site: 2301-2307 Lincoln Ave, Alameda
Sampler: AC	Date: 5/22/09
Well I.D.: mw-8	Well Diameter: 2 3 (4) 6 8 ___
Total Well Depth (TD): 17.48	Depth to Water (DTW): 07.76
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]: 9.70	

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: _____

6.3 (Gals.) X	3	=	18.9 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
0817	64.6	7.9	572.0	875	6.3	cloudy
0818	65.1	7.8	576.1	>1000	12.6	"
0819	64.9	7.7	591.2	>1000	18.9	"
						DTW 16.05

Did well dewater? Yes (No) Gallons actually evacuated: 18.9

Sampling Date: 5/22/09 Sampling Time: 11.49 Depth to Water: 07.80

Sample I.D.: mw-8 Laboratory: (CalScience) Columbia Other_____

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other: See COC

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

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) 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 WELLHEAD INSPECTION FORM
(FOR SAMPLE TECHNICIAN)

Site Address 2301-2307 Lincoln Ave, Alameda, CA Date 5/22/09

Job Number 090522-AC1 Technician AC 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	✓	✓							Sticker TAG (NOT shell
MW-2	✓	✓							Sticker TAG (NOT shell
MW-3	✓	✓							Sticker TAG (NOT shell
MW-4	✓	✓							Paper TAG (not shell
MW-5	✓	✓							Paper TAG (not shell
MW-6	✓	✓							Paper TAG (not shell
MW-7	✓	✓							Paper TAG (not shell
MW-8	✓	✓							Paper TAG (not shell

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: