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 11, 2011

REFERENCE NO.: 240695

PROJECT NAME: 4895 Hacienda Drive, Dublin

TO: Jerry Wickham
Alameda County Environmental Health
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502

RECEIVED
2:22 pm, Feb 16, 2011
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 2010

- ☐ 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, Shell Oil Products US (electronic copy)
Carl Cox, CJC Hacienda LLC, 4431 Stoneridge Drive #100, Pleasanton, CA 94588-8417
Cheryl Dizon, Zone 7 Water Agency, 100 North Canyons Parkway, Livermore, CA 94551

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 Environmental Health
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502-6577

Re: Shell-branded Service Station
4895 Hacienda Drive
Dublin, California
SAP Code 165112
Incident No. 97795893
ACEH Case No. RO0002985

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
Senior Program Manager

GROUNDWATER MONITORING REPORT - FOURTH QUARTER 2010

SHELL-BRANDED SERVICE STATION
4895 HACIENDA DRIVE
DUBLIN, CALIFORNIA

SAP CODE 165112
INCIDENT NO. 97795893
AGENCY NO. RO0002985

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 11, 2011
REF. NO. 240695 (1)
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).

1.1 SITE INFORMATION

Site Address	4895 Hacienda Drive, Dublin
Site Use	Shell-branded Service Station
Shell Project Manager	Denis Brown
CRA Project Manager	Peter Schaefer
Lead Agency and Contact	ACEH, Jerry Wickham
Agency Case No.	RO0002985
Shell SAP Code	165112
Shell Incident No.	97795893

Date of most recent agency correspondence was October 14, 2010.

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	13.50 to 14.41 feet below top of well casing

2.3 PROPOSED ACTIVITIES

Site wells have now been sampled quarterly for one hydrologic cycle (one year). CRA proposes to sample the wells semiannually during the second and fourth quarters. Unless we are instructed otherwise, Blaine will gauge and sample wells according to this modified monitoring program for this site, and CRA will issue groundwater monitoring reports semiannually following the sampling events.

Alameda County Environmental Health's (ACEH's) October 14, 2010 letter requested a subsurface investigation report by February 18, 2011. As discussed in CRA's January 11, 2011 telephone call with ACEH, we request an extension of the due date to June 18, 2011 due to access issues. CRA will submit an addendum to Delta Consultants' September 10, 2010 *Additional Site Assessment Work Plan* proposing revised boring locations.

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

Peter Schaefer, CHG, CEG

Aubrey K. Cool, PG

FIGURES

02/08/2011

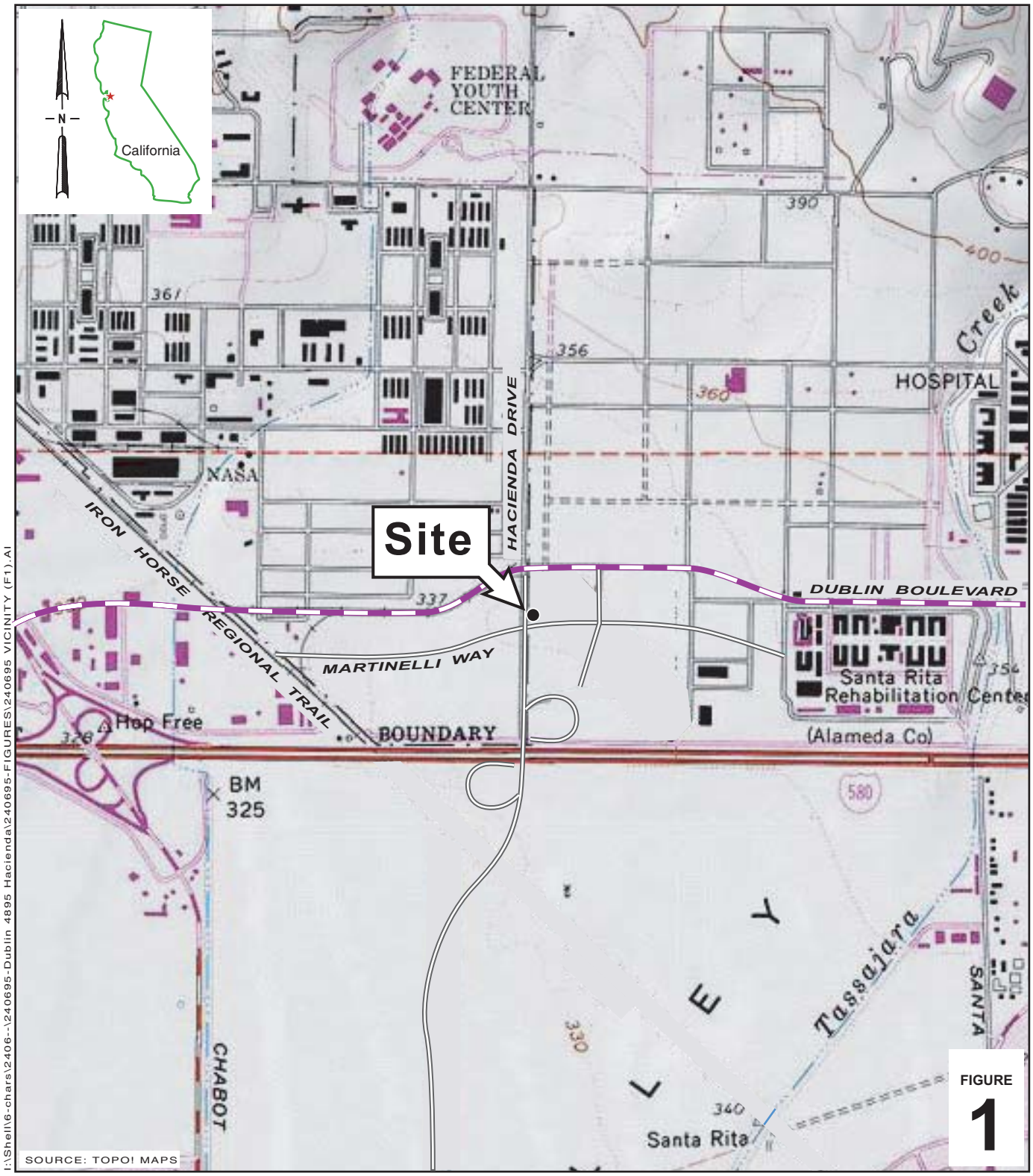


FIGURE 1

0 1/8 1/4 1/2 1

SCALE : 1" = 1/4 MILE

I:\Shell\6-chars\2406--\240695-Dublin 4895 Hacienda\240695-FIGURES\240695 VICINITY (F1).AI

Shell-branded Service Station

4895 Hacienda Drive

Dublin, California

CONESTOGA-ROVERS & ASSOCIATES

Vicinity Map

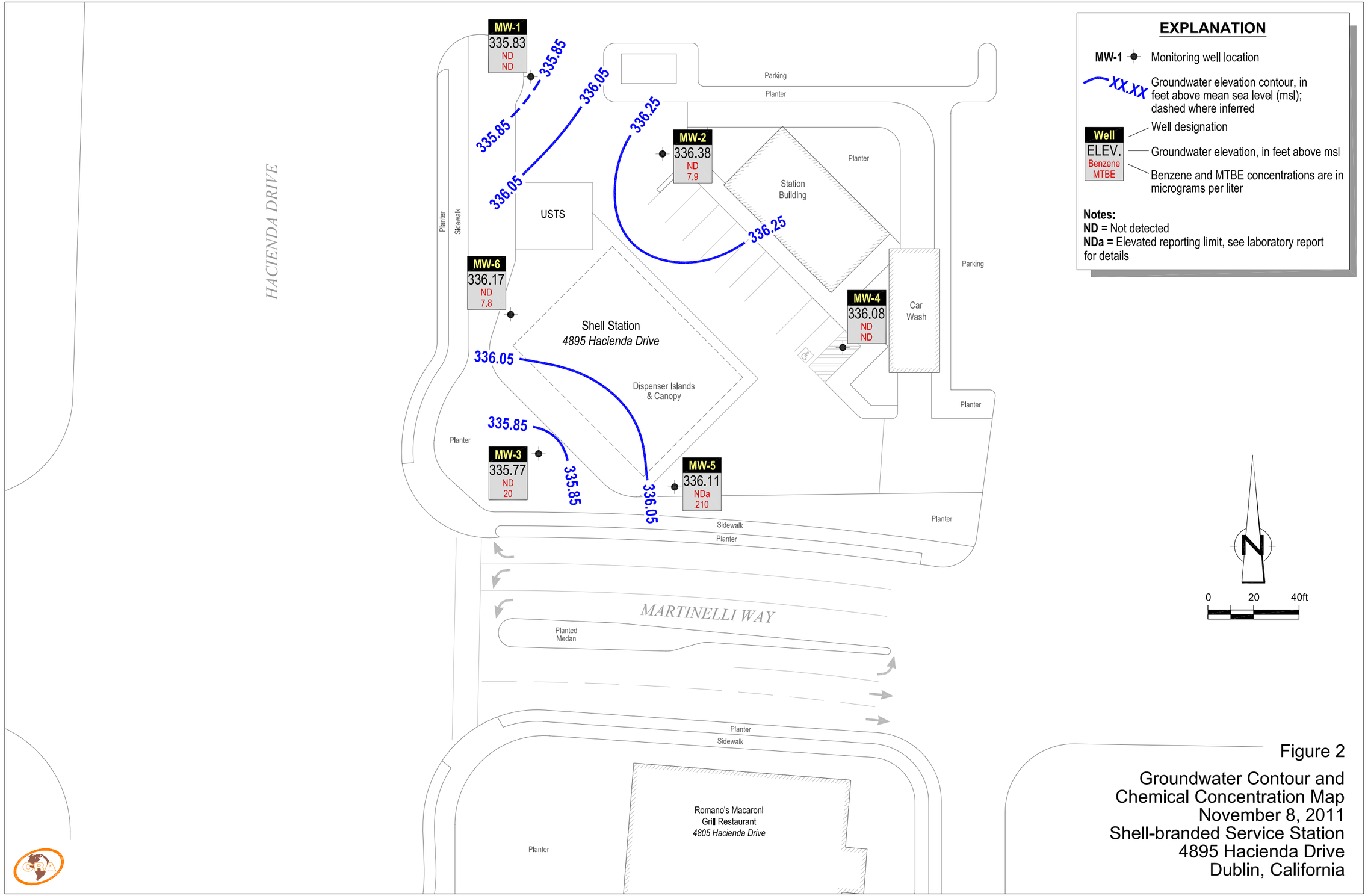


Figure 2

Groundwater Contour and Chemical Concentration Map
November 8, 2011
Shell-branded Service Station
4895 Hacienda Drive
Dublin, California

I:\Shell\6-chars\2406--\240695-Dublin 4895 Hacienda\240695-REPORTS\240695-RPT1-4Q10\240695 4QM10-GW.DWG (02/11/2011)

APPENDIX A

BLAINE TECH SERVICES, INC. – GROUNDWATER MONITORING REPORT

BLAINE
TECH SERVICES INC.

GROUNDWATER SAMPLING SPECIALISTS
SINCE 1985

November 24, 2010

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

Fourth Quarter 2010 Groundwater Monitoring at
Shell-Branded Service Station
4895 Hacienda Drive
Dublin, CA

Monitoring performed on November 8, 2010

Groundwater Monitoring Report **101108-JO-2**

This report covers the routine monitoring of groundwater wells at this Shell-branded 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.

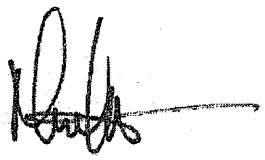
Basic field information is presented alongside analytical values excerpted from the laboratory report in the cumulative table of **WELL CONCENTRATIONS**. The full analytical report for the most recent samples and the field data sheets are attached to this report.

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/np

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
4895 Hacienda Drive
Dublin, CA

Well ID	Date	TPPH (ug/L)	TEPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)
MW-1	3/15/2010	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	349.33	11.65	337.68
MW-1	3/19/2010	<50	<50 a	<0.50	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<10	349.33	11.75	337.58
MW-1	5/6/2010	<50	<50 a	<0.50	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<10	349.33	11.99	337.34
MW-1	8/5/2010	<50	<50 a	<0.50	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<10	349.33	12.98	336.35
MW-1	**11/8/2010**	**<50**	**<50 a**	**<0.50**	**<1.0**	**<1.0**	**<1.0**	**<1.0**	**<2.0**	**<2.0**	**<2.0**	**<10**	**349.33**	**13.50**	**335.83**
MW-2	3/15/2010	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	350.66	12.95	337.71
MW-2	3/19/2010	230	<50 a	<0.50	<1.0	<1.0	<1.0	180	<2.0	<2.0	<2.0	<10	350.66	13.16	337.50
MW-2	5/6/2010	100	<50 a	<0.50	<1.0	<1.0	<1.0	130	<2.0	<2.0	<2.0	<10	350.66	13.32	337.34
MW-2	8/5/2010	<50	<50 a	<0.50	<1.0	<1.0	<1.0	11	<2.0	<2.0	<2.0	<10	350.66	14.34	336.32
MW-2	**11/8/2010**	**<50**	**<50 a**	**<0.50**	**<1.0**	**<1.0**	**<1.0**	**7.9**	**<2.0**	**<2.0**	**<2.0**	**<10**	**350.66**	**14.28**	**336.38**
MW-3	3/15/2010	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	350.18	12.62	337.56
MW-3	3/19/2010	<50	<50 a	<0.50	<1.0	<1.0	<1.0	11	<2.0	<2.0	<2.0	<10	350.18	12.84	337.34
MW-3	5/6/2010	<50	<50 a	<0.50	<1.0	<1.0	<1.0	6.9	<2.0	<2.0	<2.0	<10	350.18	13.51	336.67
MW-3	8/5/2010	<50	<50 a	<0.50	<1.0	<1.0	<1.0	9.6	<2.0	<2.0	<2.0	<10	350.18	14.28	335.90
MW-3	**11/8/2010**	**<50**	**<50 a**	**<0.50**	**<1.0**	**<1.0**	**<1.0**	**20**	**<2.0**	**<2.0**	**<2.0**	**<10**	**350.18**	**14.41**	**335.77**
MW-4	3/15/2010	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	350.32	12.85	337.47
MW-4	3/19/2010	<50	<50 a	<0.50	<1.0	<1.0	<1.0	3.3	<2.0	<2.0	<2.0	<10	350.32	12.98	337.34
MW-4	5/6/2010	<50	<50 a	<0.50	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<10	350.32	13.35	336.97
MW-4	8/5/2010	<50	<50 a	<0.50	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<10	350.32	14.23	336.09
MW-4	**11/8/2010**	**<50**	**<50 a**	**<0.50**	**<1.0**	**<1.0**	**<1.0**	**<1.0**	**<2.0**	**<2.0**	**<2.0**	**<10**	**350.32**	**14.24**	**336.08**
MW-5	3/15/2010	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	350.31	12.80	337.51
MW-5	3/19/2010	410	<50 a	<0.50	<1.0	<1.0	<1.0	310	<2.0	<2.0	<2.0	<10	350.31	12.99	337.32
MW-5	5/6/2010	160	<50 a	<1.0	<2.0	<2.0	<2.0	210	<4.0	<4.0	<4.0	<20	350.31	13.21	337.10
MW-5	8/5/2010	310	<50 a	<1.0	<2.0	<2.0	<2.0	250	<4.0	<4.0	<4.0	39	350.31	14.25	336.06
MW-5	**11/8/2010**	**210**	**<50 a**	**<1.0**	**<2.0**	**<2.0**	**<2.0**	**210**	**<4.0**	**<4.0**	**<4.0**	**<20**	**350.31**	**14.20**	**336.11**
MW-6	3/15/2010	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	350.29	12.79	337.50
MW-6	3/19/2010	<50	<50 a	<0.50	<1.0	<1.0	<1.0	18	<2.0	<2.0	<2.0	<10	350.29	12.84	337.45
MW-6	5/6/2010	<50	<50 a	<0.50	<1.0	<1.0	<1.0	7.4	<2.0	<2.0	<2.0	<10	350.29	13.14	337.15

WELL CONCENTRATIONS
Shell-branded Service Station
4895 Hacienda Drive
Dublin, CA

Well ID	Date	TPPH (ug/L)	TEPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)
MW-6	8/5/2010	53	<50 a	<0.50	<1.0	<1.0	<1.0	4.0	<2.0	<2.0	<2.0	<10	350.29	14.12	336.17
MW-6	**11/8/2010**	**<50**	**<50 a**	**<0.50**	**<1.0**	**<1.0**	**<1.0**	**7.8**	**<2.0**	**<2.0**	**<2.0**	**<10**	**350.29**	**14.12**	**336.17**

Abbreviations:
TPPH = Total petroleum hydrocarbons as gasoline by EPA Method 8260B
TEPH = Total petroleum hydrocarbons as diesel by EPA Method 8015
BTEX = Benzene, toluene, ethylbenzene, xylenes by EPA Method 8260B
MTBE = Methyl tertiary butyl ether by EPA Method 8260B
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
ug/L = Parts per billion
ppm = Parts per million
MSL = Mean sea level
ft. = Feet
<n = Below detection limit
n/n = Pre-purge/Post-purge Dissolved Oxygen Reading.
NA = Not applicable
ND = Not detected

Notes:
a = The sample extract was subjected to Silica Gel treatment proior to analysis.
Site surevey dated March 19, 2010 provided by Mid Coast Engineers, CA.

Calscience
Environmental
Laboratories, Inc.

November 19, 2010

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

Subject: **Calscience Work Order No.: 10-11-0833**
Client Reference: 4895 Hacienda Dr., San Ramon Road, Dub, CA

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 11/10/2010 and analyzed in accordance with the attached chain-of-custody.

Calscience Environmental Laboratories certifies that the test results provided in this report meet all NELAC requirements for parameters for which accreditation is required or available. Any exceptions to NELAC requirements are noted in the case narrative. 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.
Xuan H. Dang
Project Manager

Calscience Environmental Laboratories, Inc.

Analytical Report

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

Date Received: 11/10/10
Work Order No: 10-11-0833
Preparation: EPA 3510C
Method: EPA 8015B

Project: 4895 Hacienda Dr., San Ramon Road, Dub, CA

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-1	10-11-0833-1-D	11/08/10 12:40	Aqueous	GC 27	11/11/10	11/12/10 14:56	101111B18

Comment(s): -The sample extract was subjected to Silica Gel treatment prior to analysis.

Parameter	Result	RL	DF	Qual	Units
Diesel Range Organics	ND	50	1		ug/L

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	95	68-140	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-2	10-11-0833-2-D	11/08/10 13:55	Aqueous	GC 27	11/11/10	11/12/10 15:13	101111B18

Comment(s): -The sample extract was subjected to Silica Gel treatment prior to analysis.

Parameter	Result	RL	DF	Qual	Units
Diesel Range Organics	ND	50	1		ug/L

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	95	68-140	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-3	10-11-0833-3-D	11/08/10 13:10	Aqueous	GC 27	11/11/10	11/12/10 15:32	101111B18

Comment(s): -The sample extract was subjected to Silica Gel treatment prior to analysis.

Parameter	Result	RL	DF	Qual	Units
Diesel Range Organics	ND	50	1		ug/L

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	87	68-140	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-4	10-11-0833-4-D	11/08/10 12:55	Aqueous	GC 27	11/11/10	11/12/10 15:50	101111B18

Comment(s): -The sample extract was subjected to Silica Gel treatment prior to analysis.

Parameter	Result	RL	DF	Qual	Units
Diesel Range Organics	ND	50	1		ug/L

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	96	68-140	

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

Calscience Environmental Laboratories, Inc.

Analytical Report

Blaine Tech Services, Inc.		Date Received:	11/10/10
1680 Rogers Avenue		Work Order No:	10-11-0833
San Jose, CA 95112-1105		Preparation:	EPA 3510C
		Method:	EPA 8015B

Project: 4895 Hacienda Dr., San Ramon Road, Dub, CA

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-5	10-11-0833-5-G	11/08/10 14:10	Aqueous	GC 27	11/11/10	11/12/10 16:07	101111B18

Comment(s): -The sample extract was subjected to Silica Gel treatment prior to analysis.

Parameter	Result	RL	DF	Qual	Units
Diesel Range Organics	ND	50	1		ug/L

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	90	68-140	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-6	10-11-0833-6-D	11/08/10 13:30	Aqueous	GC 27	11/11/10	11/12/10 16:25	101111B18

Comment(s): -The sample extract was subjected to Silica Gel treatment prior to analysis.

Parameter	Result	RL	DF	Qual	Units
Diesel Range Organics	ND	50	1		ug/L

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	91	68-140	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-12-211-1,920	N/A	Aqueous	GC 27	11/11/10	11/12/10 14:01	101111B18

Parameter	Result	RL	DF	Qual	Units
Diesel Range Organics	ND	50	1		ug/L

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	89	68-140	

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: 11/10/10
Work Order No: 10-11-0833
Preparation: EPA 5030C
Method: LUFT GC/MS / EPA 8260B
Units: ug/L

Project: 4895 Hacienda Dr., San Ramon Road, Dub, CA

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-1	10-11-0833-1-A	11/08/10 12:40	Aqueous	GC/MS RR	11/13/10	11/13/10 13:38	101113L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.50	1		Tert-Butyl Alcohol (TBA)	ND	10	1	
Ethylbenzene	ND	1.0	1		Diisopropyl Ether (DIPE)	ND	2.0	1	
Toluene	ND	1.0	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	1	
Xylenes (total)	ND	1.0	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	1	
Methyl-t-Butyl Ether (MTBE)	ND	1.0	1		TPPH	ND	50	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	100	80-126			1,2-Dichloroethane-d4	91	80-131		
Toluene-d8	104	80-120			Toluene-d8-TPPH	108	88-112		
1,4-Bromofluorobenzene	95	80-120							

MW-2	10-11-0833-2-A	11/08/10 13:55	Aqueous	GC/MS RR	11/13/10	11/13/10 19:20	101113L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.50	1		Tert-Butyl Alcohol (TBA)	ND	10	1	
Ethylbenzene	ND	1.0	1		Diisopropyl Ether (DIPE)	ND	2.0	1	
Toluene	ND	1.0	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	1	
Xylenes (total)	ND	1.0	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	1	
Methyl-t-Butyl Ether (MTBE)	7.9	1.0	1		TPPH	ND	50	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	100	80-126			1,2-Dichloroethane-d4	91	80-131		
Toluene-d8	104	80-120			Toluene-d8-TPPH	108	88-112		
1,4-Bromofluorobenzene	96	80-120							

MW-3	10-11-0833-3-A	11/08/10 13:10	Aqueous	GC/MS RR	11/13/10	11/13/10 19:46	101113L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.50	1		Tert-Butyl Alcohol (TBA)	ND	10	1	
Ethylbenzene	ND	1.0	1		Diisopropyl Ether (DIPE)	ND	2.0	1	
Toluene	ND	1.0	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	1	
Xylenes (total)	ND	1.0	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	1	
Methyl-t-Butyl Ether (MTBE)	20	1.0	1		TPPH	ND	50	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	99	80-126			1,2-Dichloroethane-d4	90	80-131		
Toluene-d8	101	80-120			Toluene-d8-TPPH	105	88-112		
1,4-Bromofluorobenzene	97	80-120							

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

Calscience Environmental Laboratories, Inc.

Analytical Report

Blaine Tech Services, Inc.	Date Received:	11/10/10
1680 Rogers Avenue	Work Order No:	10-11-0833
San Jose, CA 95112-1105	Preparation:	EPA 5030C
	Method:	LUFT GC/MS / EPA 8260B
	Units:	ug/L

Project: 4895 Hacienda Dr., San Ramon Road, Dub, CA

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-4	10-11-0833-4-A	11/08/10 12:55	Aqueous	GC/MS RR	11/13/10	11/13/10 20:12	101113L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.50	1		Tert-Butyl Alcohol (TBA)	ND	10	1	
Ethylbenzene	ND	1.0	1		Diisopropyl Ether (DIPE)	ND	2.0	1	
Toluene	ND	1.0	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	1	
Xylenes (total)	ND	1.0	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	1	
Methyl-t-Butyl Ether (MTBE)	ND	1.0	1		TPPH	ND	50	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	101	80-126			1,2-Dichloroethane-d4	92	80-131		
Toluene-d8	105	80-120			Toluene-d8-TPPH	109	88-112		
1,4-Bromofluorobenzene	97	80-120							

MW-5	10-11-0833-5-A	11/08/10 14:10	Aqueous	GC/MS RR	11/13/10	11/13/10 20:39	101113L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	1.0	2		Tert-Butyl Alcohol (TBA)	ND	20	2	
Ethylbenzene	ND	2.0	2		Diisopropyl Ether (DIPE)	ND	4.0	2	
Toluene	ND	2.0	2		Ethyl-t-Butyl Ether (ETBE)	ND	4.0	2	
Xylenes (total)	ND	2.0	2		Tert-Amyl-Methyl Ether (TAME)	ND	4.0	2	
Methyl-t-Butyl Ether (MTBE)	210	2.0	2		TPPH	210	100	2	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	99	80-126			1,2-Dichloroethane-d4	90	80-131		
Toluene-d8	103	80-120			Toluene-d8-TPPH	108	88-112		
1,4-Bromofluorobenzene	98	80-120							

MW-6	10-11-0833-6-A	11/08/10 13:30	Aqueous	GC/MS RR	11/13/10	11/13/10 21:05	101113L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.50	1		Tert-Butyl Alcohol (TBA)	ND	10	1	
Ethylbenzene	ND	1.0	1		Diisopropyl Ether (DIPE)	ND	2.0	1	
Toluene	ND	1.0	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	1	
Xylenes (total)	ND	1.0	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	1	
Methyl-t-Butyl Ether (MTBE)	7.8	1.0	1		TPPH	ND	50	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	98	80-126			1,2-Dichloroethane-d4	91	80-131		
Toluene-d8	101	80-120			Toluene-d8-TPPH	106	88-112		
1,4-Bromofluorobenzene	97	80-120							

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: 11/10/10
Work Order No: 10-11-0833
Preparation: EPA 5030C
Method: LUFT GC/MS / EPA 8260B
Units: ug/L

Project: 4895 Hacienda Dr., San Ramon Road, Dub, CA

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-767-4,881**	**N/A**	**Aqueous**	**GC/MS RR**	**11/13/10**	**11/13/10 13:11**	**101113L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.50	1		Tert-Butyl Alcohol (TBA)	ND	10	1	
Ethylbenzene	ND	1.0	1		Diisopropyl Ether (DIPE)	ND	2.0	1	
Toluene	ND	1.0	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	1	
Xylenes (total)	ND	1.0	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	1	
Methyl-t-Butyl Ether (MTBE)	ND	1.0	1		TPPH	ND	50	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	96	80-126			1,2-Dichloroethane-d4	87	80-131		
Toluene-d8	103	80-120			Toluene-d8-TPPH	108	88-112		
1,4-Bromofluorobenzene	98	80-120							

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: 11/10/10
Work Order No: 10-11-0833
Preparation: EPA 5030C
Method: LUFT GC/MS / EPA 8260B

Project 4895 Hacienda Dr., San Ramon Road, Dub, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
MW-1	Aqueous	GC/MS RR	11/13/10	11/13/10	101113S01

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	99	97	80-120	2	0-20	
Ethylbenzene	93	93	73-127	0	0-20	
Toluene	95	95	80-120	0	0-20	
Methyl-t-Butyl Ether (MTBE)	104	100	65-131	4	0-22	
Tert-Butyl Alcohol (TBA)	92	89	62-134	3	0-20	
Diisopropyl Ether (DIPE)	106	102	64-136	4	0-29	
Ethyl-t-Butyl Ether (ETBE)	105	101	70-124	4	0-20	
Tert-Amyl-Methyl Ether (TAME)	100	98	71-125	2	0-20	

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:	10-11-0833
San Jose, CA 95112-1105		Preparation:	EPA 3510C
		Method:	EPA 8015B

Project: 4895 Hacienda Dr., San Ramon Road, Dub, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-211-1,920	Aqueous	GC 27	11/11/10	11/12/10	101111B18

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Diesel Range Organics	108	106	75-117	2	0-13	

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: 10-11-0833
Preparation: EPA 5030C
Method: LUFT GC/MS / EPA 8260B

Project: 4895 Hacienda Dr., San Ramon Road, Dub, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-767-4,881	Aqueous	GC/MS RR	11/13/10	11/13/10	101113L01

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	101	100	80-120	0	0-20	
Ethylbenzene	96	96	80-123	0	0-20	
Toluene	97	96	80-120	1	0-20	
Methyl-t-Butyl Ether (MTBE)	103	105	75-123	1	0-25	
Tert-Butyl Alcohol (TBA)	90	91	72-126	0	0-20	
Diisopropyl Ether (DIPE)	108	106	75-129	1	0-22	
Ethyl-t-Butyl Ether (ETBE)	107	105	76-124	2	0-20	
Tert-Amyl-Methyl Ether (TAME)	103	102	79-121	1	0-20	
TPPH	96	96	65-135	0	0-30	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Glossary of Terms and Qualifiers

Work Order Number: 10-11-0833

Qualifier	Definition
*	See applicable analysis comment.
<	Less than the indicated value.
>	Greater than the indicated value.
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 or PES/PESD 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 without further clarification.
B	Analyte was present in the associated method blank.
BU	Sample analyzed after holding time expired.
E	Concentration exceeds the calibration range.
ET	Sample was extracted past end of recommended max. 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.
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.
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.

Shell Oil Products Chain Of Custody Record

LAB (LOCATION)
- [x] CALSCIENCE (_____)
- [ ] SPL (_____)
- [ ] XENCO (_____)
- [ ] TEST AMERICA (_____)
- [ ] OTHER (_____)

Please Check Appropriate Box:
- [ ] ENV. SERVICES
- [ ] MOTIVA RETAIL
- [ ] SHELL RETAIL
- [ ] MOTIVA SD&CM
- [x] CONSULTANT
- [ ] LUBES
- [ ] SHELL PIPELINE
- [ ] OTHER _____

Print Bill To Contact Name: Peter Schaefer 165112

INCIDENT # (ENV SERVICES): 9 7 7 9 5 8 9 3 — [ ] CHECK IF NO INCIDENT # APPLIES

DATE: 11-8-10

PAGE: 1 of 1

PO # / SAP #

SAMPLING COMPANY: Blaine Tech Services

LOG CODE: BTSS

SITE ADDRESS: Street and City: 4895 Hacienda Dr., San Ramon Road, Dub State: CA

GLOBAL ID NO.: T10000000423

ADDRESS: 1680 Rogers Ave, San Jose, CA 95112

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

PHONE NO.: (510) 420-3335

E-MAIL: Shelledf@craworld.com

CONSULTANT PROJECT NO.: 104083-J02

BTS #

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): J. Chiz

LAB USE ONLY: 11-0833

TURNAROUND TIME (CALENDAR DAYS):
- [x] 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
- [x] 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)	TEMPERATURE ON REC C° / Container PID Readings or Laboratory Notes
1	MW-1	11-8-10	1240	W	3			2		5	X	X	X	X										
2	MW-2	"	1355	"	3			2		5	X	X	X	X										
3	MW-3	"	1310	"	3			2		5	X	X	X	X										
4	MW-4	"	1255	"	3			2		5	X	X	X	X										
5	MW-5	"	1410	"	6			2		10	X	X	X	X										
6	MW-6	"	1330	"	3			2		5	X	X	X	X										

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
	(sample custodian)	11-8-10	1515
		11/9/10	1025
11-9-10 1730		11/10/10	1030

05/2/08 Revision

0f33

GSO

WebShip > > > > >

800-322-5555 www.gso.com

Ship From:
ALAN KEMP
CAL SCIENCE- CONCORD
5063 COMMERCIAL CIRCLE #H
CONCORD, CA 94520

Ship To:
SAMPLE RECEIVING
CEL
7440 LINCOLN WAY
GARDEN GROVE, CA 92841

COD:
$0.00

Reference:
BTS

Delivery Instructions:

Signature Type:
SIGNATURE REQUIRED

Tracking #: 515326438

NPS

ORC

D

GARDEN GROVE

D92843A

86201522

Print Date : 11/09/10 15:32 PM

Package 3 of 3

Calscience Environmental Laboratories, Inc.

WORK ORDER #: 10-11-0833

SAMPLE RECEIPT FORM

Cooler 1 of 1

CLIENT: Blaine Tech

DATE: 11/10/10

TEMPERATURE: Thermometer ID: SC1 (Criteria: 0.0 °C – 6.0 °C, not frozen)

Temperature 3.1 °C + 0.5 °C (CF) = 3.6 °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 Initial: gp

CUSTODY SEALS INTACT:

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

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

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.			
☐ No analysis requested. ☐ Not relinquished. ☐ No date/time relinquished.			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and good condition	☑	☐	☐
Proper containers and sufficient volume for analyses requested	☑	☐	☐
Analyses received within holding time	☑	☐	☐
pH / Residual Chlorine / Dissolved Sulfide received within 24 hours	☐	☐	☑
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 ☑3 VOA**h** ☐VOA**na$_2$** ☐125AGB ☐125AGB**h** ☐125AGB**p** ☐1AGB ☐1AGB**na$_2$** ☐1AGB**s**

☐500AGB ☑2 500AGJ ☐500AGJ**s** ☐250AGB ☐250CGB ☐250CGB**s** ☐1PB ☐500PB ☐500PB**na**

☐250PB ☐250PB**n** ☐125PB ☐125PB**znna** ☐100PJ ☐100PJ**na$_2$** ☐_____ ☐_____ ☐_____

Air: ☐Tedlar® ☐Summa® **Other:** ☐_____ **Trip Blank Lot#:**_____ **Labeled/Checked by:** IA

Container: C: Clear A: Amber P: Plastic G: Glass J: Jar B: Bottle Z: Ziploc/Resealable Bag E: Envelope **Reviewed by:** hL

Preservative: h: HCL n: HNO_3 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:** hL

WELL GAUGING DATA

Project # 102108-302 Date 11-8-10 Client Shell

Site 4895 Hacienda Dr Dublin 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	1200	4					13.80	30.24		
MW-2	1220	4					14.28	29.89		
MW-3	1210	4					14.41	25.05		
MW-4	1205	4					14.24	27.28		
MW-5	1225	4					14.20	29.63		
MW-6	1215	4					14.12	25.23	↓	

BTS #: 101108-J02	Site: 4895 Hacienda Dr. Dublin CA
Sampler: JO	Date: 11-8-10
Well I.D.: MW-1	Well Diameter: 2 3 (4) 6 8 ____
Total Well Depth (TD): 30.21	Depth to Water (DTW): 13.50
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]: 16.84	

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: _____

10.8 (Gals.) X	3	=	32.4 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
1230	69.7	7.76	1289	438	10.8	cloudy
1232	68.5	7.68	1263	388	21.6	" "
1234	68.6	7.61	1261	370	32.4	" "

Did well dewater? Yes (No) Gallons actually evacuated: 32.4

Sampling Date: 11-8-10 Sampling Time: 1240 Depth to Water: 14.12

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

BTS #: 101108-J02	Site: 4895 Hacienda Dr. Dublin CA
Sampler: JO	Date: 11-9-10
Well I.D.: MW-2	Well Diameter: 2 3 (4) 6 8 ___
Total Well Depth (TD): 29.89	Depth to Water (DTW): 14.28
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]: 17.40	

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: _____

10.1 (Gals.) X 3 = 30.3 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
1345	68.7	7.51	2250	>1000	10.1	
1347	68.8	7.31	2391	592	20.2	
1349	68.8	7.30	2418	570	30.3	

Did well dewater? Yes (No) Gallons actually evacuated: 30.3

Sampling Date: 11-8-10 Sampling Time: ~~1349~~ 1355 Depth to Water: 15.21

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

WELL MONITORING DATA SHEET

BTS #: 101108-J02	Site: 4895 Hacienda Dr. Dublin CA
Sampler: JO	Date: 11-8-10
Well I.D.: MW-3	Well Diameter: 2 3 (4) 6 8 ___
Total Well Depth (TD): 25.05	Depth to Water (DTW): 14.41
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]: 16.53	

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: _____

6.9 (Gals.) X	3	=	20.7 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
1303	68.1	7.41	3261	427	6.9	
1306	68.2	7.38	3298	316	13.8	
1307	68.1	7.37	3316	291	20.7	

Did well dewater? Yes (No) Gallons actually evacuated: 20.7

Sampling Date: 11-8-10 Sampling Time: 1310 Depth to Water: 14.89

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	

SHE. WELL MONITORING DAT HEET

BTS #: 101108-302	Site: 4895 Hacienda Dr. Dublin CA
Sampler: JO	Date: 11-9-10
Well I.D.: MW-4	Well Diameter: 2 3 (4) 6 8 ___
Total Well Depth (TD): 27.28	Depth to Water (DTW): 14.24
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]: 16.84	

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: ___

8.4 (Gals.) X	3	=	25.2 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
1246	69.0	7.68	2321	581	8.4	clady
1248	69.1	7.32	2386	421	16.8	"
1250	69.0	7.29	2391	416	25.4	" "

Did well dewater? Yes (No) Gallons actually evacuated: 25.4

Sampling Date: 11-8-10 Sampling Time: 1255 Depth to Water: 14.92

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

BTS #: 101108-JO2	Site: 4895 Hacienda Dr. Dublin CA
Sampler: JO	Date: 11-8-10
Well I.D.: MW-5	Well Diameter: 2 3 (4) 6 8 ___
Total Well Depth (TD): 29.63	Depth to Water (DTW): 14.20
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]: 17.28	

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: ___

10.0 (Gals.) X	3	=	30 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
1402	68.7	7.21	2030	498	10	
1404	68.7	7.18	2033	462	20	
1406	68.8	7.20	2039	441	30	

Did well dewater? Yes (No) Gallons actually evacuated: 30

Sampling Date: 11-8-10 Sampling Time: 1410 Depth to Water: 15.30

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

BTS #: 101108-302	Site: 4895 Hacienda Dr. Dublin CA
Sampler: JO	Date: 11-8-10
Well I.D.: MW-6	Well Diameter: 2 3 (4) 6 8 ___
Total Well Depth (TD): 25.23	Depth to Water (DTW): 14.12
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]: 16.34	

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: ____

7.2 (Gals.) X 3 = 21.6 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	radius^2 * 0.163

Time	Temp (°F)	pH	Cond. (mS or (µS))	Turbidity (NTUs)	Gals. Removed	Observations
1320	69.1	7.71	2818	289	7.2	
1322	68.9	7.48	2844	216	14.4	
1324	68.9	7.49	2850	212	21.6	

Did well dewater? Yes (No) Gallons actually evacuated: 21.6

Sampling Date: 11-8-10 Sampling Time: 1330 Depth to Water: 14.97

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

SHELL WELLHEAD INSPECTION FORM

(FOR SAMPLE TECHNICIAN)

Site Address 4005 Hacienda Dr., Dublin Date 11-8-10

Job Number 101109-J02 Technician JD 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	X							
MW-2	X	X							
MW-3	X	X							
MW-4	X	X							
MW-5	X	X							
MW-6	X	X							

ell 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 ONITORING WELL" (12"or less) 3) WELL TAG IS PRESENT, SECURE, AND CORRECT

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