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 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
10:04 am, Aug 15, 2011
Alameda County
Environmental Health

Please find enclosed:
- ☐ Draft
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- ☒ Final
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QUANTITY	DESCRIPTION
1	Groundwater Monitoring Report – Second Quarter 2011

- ☐ 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 - SECOND QUARTER 2011

SHELL-BRANDED SERVICE STATION
4895 HACIENDA DRIVE
DUBLIN, CALIFORNIA

SAP CODE	165112
INCIDENT NO.	97795893
AGENCY NO.	RO0002985

Prepared by:
Conestoga-Rovers & Associates

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Emeryville, California
U.S.A. 94608

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AUGUST 11, 2011
REF. NO. 240695 (4)
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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 July 13, 2011 (electronic).

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), a groundwater contour and chemical concentration map (Figure 2), and a groundwater data table (Table 1). Blaine's field notes are presented in Appendix A, and the laboratory report is presented in Appendix B.

On May 27, 2011, CRA submitted a *Revised Subsurface Investigation Work Plan,* which superseded Delta Consultants' September 10, 2010 *Additional Site Assessment Work Plan.* Alameda County Environmental Health's (ACEH's) June 20, 2011 letter approved our work plan, and ACEH's July 13, 2011 electronic correspondence approved CRA's request to remove some fuel oxygenates and lead scavengers from the analysis suite.

2.2 CURRENT QUARTER'S FINDINGS

Groundwater Flow Direction	Generally southeasterly to easterly
Hydraulic Gradient	Variable
Depth to Water	12.05 to 13.65 feet below top of well casing

2.3 PROPOSED ACTIVITIES

Blaine will gauge and sample wells according to the modified monitoring program. This site will be monitored semiannually during the second and fourth quarters, and CRA will issue groundwater monitoring reports semiannually following the sampling events. ACEH's July 13, 2011 electronic correspondence approved CRA's request to remove some fuel oxygenates and lead scavengers from the analysis suite. We will implement this change in the analysis suite beginning with the fourth quarter 2011 groundwater monitoring event.

CRA will conduct the investigation detailed in our May 20, 2011 work plan following execution of access agreements with two adjacent property owners and receipt of appropriate drilling permits from Zone 7 Water Agency.

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

Peter Schaefer, CHG, CEG

Aubrey K. Cool, PG

FIGURES

02/08/2011

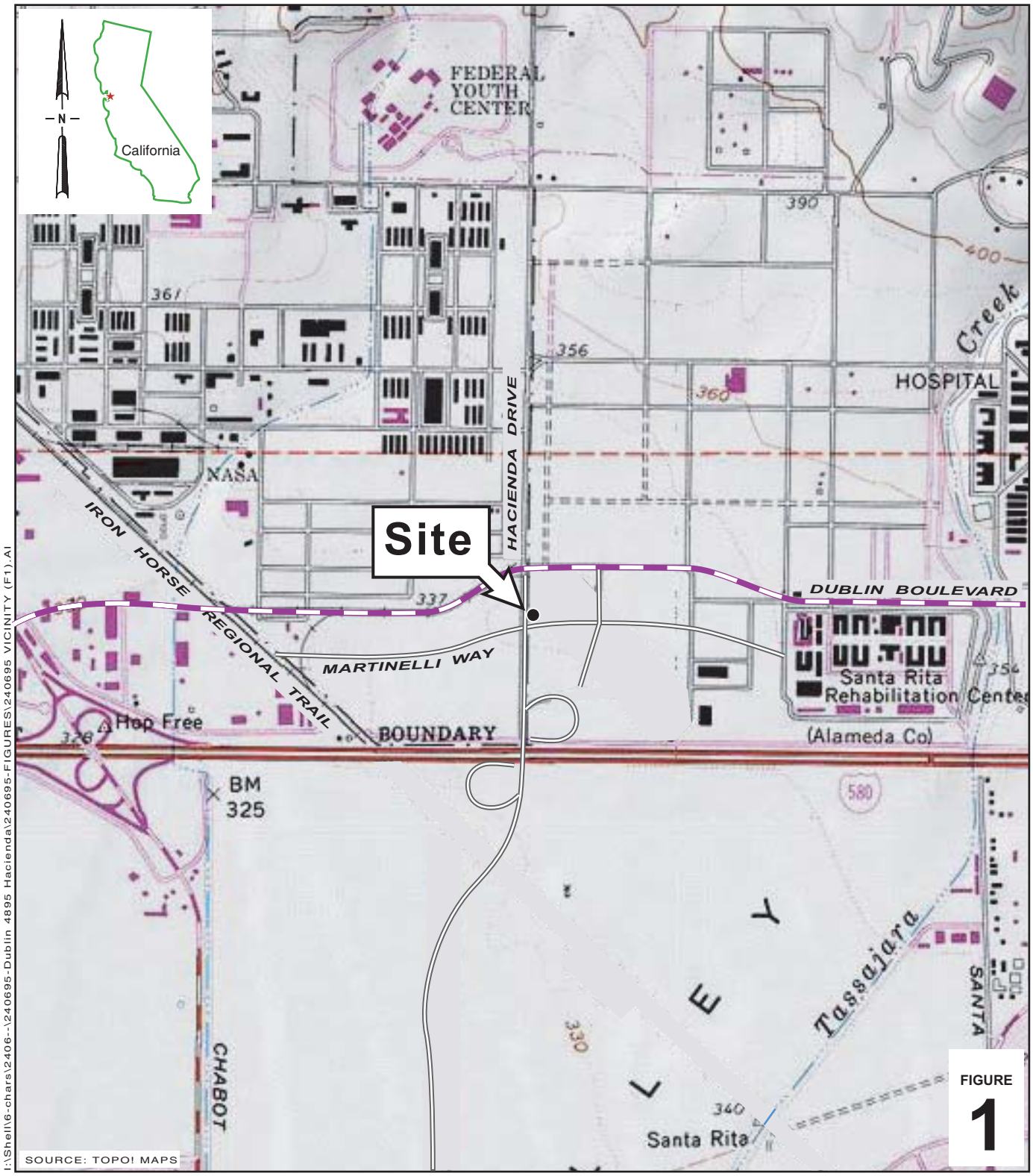


FIGURE 1

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

EXPLANATION

- CPT-1 — Proposed CPT location
- MW-1 — Monitoring well location
- B-1 — Soil boring location (Delta, 2008)
- XX.XX — Groundwater elevation contour, in feet above mean sea level (msl); dashed where inferred
- Well / ELEV. / Benzene / MTBE — Well designation; Groundwater elevation, in feet above msl; Benzene and MTBE concentrations are in micrograms per liter

Notes:
ND = Not detected

HACIENDA DRIVE

MW-1 337.28 ND ND
B-1
337.20
B-2
MW-2 337.16 ND 22
CPT-1
Shell Station
4895 Hacienda Drive
Planter
Parking
Planter
Planter
Sidewalk
USTS
Station Building
337.00
MW-6 337.10 ND 9.8
Car Wash
Parking
Dispenser Islands & Canopy
336.80
MW-4 336.68 ND 29
B-3
MW-3 337.13 ND 10
Planter
Planter
B-4
CPT-2
337.00
336.80
MW-5 336.66 ND 200
Planter
Sidewalk
Planter
MARTINELLI WAY
Planted Medan
Planter
Sidewalk
Romano's Macaroni Grill Restaurant
4805 Hacienda Drive
Planter
Planter
Planter
Sidewalk
CPT-3
CPT-4
CPT-5
Mimi's Cafe
4775 Hacienda Drive
Parking Lot
Planter

N

0 20 40ft

Figure 2

Groundwater Contour and Chemical Concentration Map
May 16, 2011
Shell-branded Service Station
4895 Hacienda Drive
Dublin, California

I:\Shell\6-chars\2406--\240695-Dublin 4895 Hacienda\240695-REPORTS\240695-RPT4-3Q11\240695 2QM11-GW.DWG (08/05/2011)

TABLE

TABLE 1

GROUNDWATER DATA
SHELL-BRANDED SERVICE STATION
4895 HACIENDA DRIVE, DUBLIN, CALIFORNIA

Well ID	Date	TPHd (µg/L)	TPHg (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	TOC (ft MSL)	Depth to Water (ft TOC)	GW Elevation (ft MSL)
MW-1	03/15/2010	---	---	---	---	---	---	---	---	---	---	---	349.33	11.65	337.68
MW-1	03/19/2010	<50	<50	<0.50	<1.0	<1.0	<1.0	<1.0	<10	<2.0	<2.0	<2.0	349.33	11.75	337.58
MW-1	05/06/2010	<50	<50	<0.50	<1.0	<1.0	<1.0	<1.0	<10	<2.0	<2.0	<2.0	349.33	11.99	337.34
MW-1	08/05/2010	<50	<50	<0.50	<1.0	<1.0	<1.0	<1.0	<10	<2.0	<2.0	<2.0	349.33	12.98	336.35
MW-1	11/08/2010	<50	<50	<0.50	<1.0	<1.0	<1.0	<1.0	<10	<2.0	<2.0	<2.0	349.33	13.50	335.83
MW-1	02/03/2011	<47	<50	<0.50	<0.50	<0.50	<1.0	<1.0	<10	<1.0	<1.0	<1.0	349.33	13.04	336.29
MW-1	**05/16/2011**	**<50**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<1.0**	**<1.0**	**<10**	**<1.0**	**<1.0**	**<1.0**	**349.33**	**12.05**	**337.28**
MW-2	03/15/2010	---	---	---	---	---	---	---	---	---	---	---	350.66	12.95	337.71
MW-2	03/19/2010	<50	230	<0.50	<1.0	<1.0	<1.0	180	<10	<2.0	<2.0	<2.0	350.66	13.16	337.50
MW-2	05/06/2010	<50	100	<0.50	<1.0	<1.0	<1.0	130	<10	<2.0	<2.0	<2.0	350.66	13.32	337.34
MW-2	08/05/2010	<50	<50	<0.50	<1.0	<1.0	<1.0	11	<10	<2.0	<2.0	<2.0	350.66	14.34	336.32
MW-2	11/08/2010	<50	<50	<0.50	<1.0	<1.0	<1.0	7.9	<10	<2.0	<2.0	<2.0	350.66	14.28	336.38
MW-2	02/03/2011	<47	50	<0.50	<0.50	<0.50	<1.0	42	24	<1.0	<1.0	<1.0	350.66	14.45	336.21
MW-2	**05/16/2011**	**<50**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<1.0**	**22**	**<10**	**<1.0**	**<1.0**	**<1.0**	**350.66**	**13.50**	**337.16**
MW-3	03/15/2010	---	---	---	---	---	---	---	---	---	---	---	350.18	12.62	337.56
MW-3	03/19/2010	<50	<50	<0.50	<1.0	<1.0	<1.0	11	<10	<2.0	<2.0	<2.0	350.18	12.84	337.34
MW-3	05/06/2010	<50	<50	<0.50	<1.0	<1.0	<1.0	6.9	<10	<2.0	<2.0	<2.0	350.18	13.51	336.67
MW-3	08/05/2010	<50	<50	<0.50	<1.0	<1.0	<1.0	9.6	<10	<2.0	<2.0	<2.0	350.18	14.28	335.90
MW-3	11/08/2010	<50	<50	<0.50	<1.0	<1.0	<1.0	20	<10	<2.0	<2.0	<2.0	350.18	14.41	335.77
MW-3	02/03/2011	<47	<50	<0.50	<0.50	<0.50	<1.0	16	<10	<1.0	<1.0	<1.0	350.18	14.08	336.10
MW-3	**05/16/2011**	**<50**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<1.0**	**10**	**<10**	**<1.0**	**<1.0**	**<1.0**	**350.18**	**13.05**	**337.13**
MW-4	03/15/2010	---	---	---	---	---	---	---	---	---	---	---	350.32	12.85	337.47
MW-4	03/19/2010	<50	<50	<0.50	<1.0	<1.0	<1.0	3.3	<10	<2.0	<2.0	<2.0	350.32	12.98	337.34
MW-4	05/06/2010	<50	<50	<0.50	<1.0	<1.0	<1.0	<1.0	<10	<2.0	<2.0	<2.0	350.32	13.35	336.97
MW-4	08/05/2010	<50	<50	<0.50	<1.0	<1.0	<1.0	<1.0	<10	<2.0	<2.0	<2.0	350.32	14.23	336.09
MW-4	11/08/2010	<50	<50	<0.50	<1.0	<1.0	<1.0	<1.0	<10	<2.0	<2.0	<2.0	350.32	14.24	336.08
MW-4	02/03/2011	<47	<50	<0.50	<0.50	<0.50	<1.0	1.7	<10	<1.0	<1.0	<1.0	350.32	14.24	336.08

TABLE 1

GROUNDWATER DATA
SHELL-BRANDED SERVICE STATION
4895 HACIENDA DRIVE, DUBLIN, CALIFORNIA

Well ID	*Date*	*TPHd (µg/L)*	*TPHg (µg/L)*	*B (µg/L)*	*T (µg/L)*	*E (µg/L)*	*X (µg/L)*	*MTBE (µg/L)*	*TBA (µg/L)*	*DIPE (µg/L)*	*ETBE (µg/L)*	*TAME (µg/L)*	*TOC (ft MSL)*	*Depth to Water (ft TOC)*	*GW Elevation (ft MSL)*
MW-4	**05/16/2011**	**<51**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<1.0**	**29**	**<10**	**<1.0**	**<1.0**	**<1.0**	**350.32**	**13.64**	**336.68**
MW-5	03/15/2010	---	---	---	---	---	---	---	---	---	---	---	350.31	12.80	337.51
MW-5	03/19/2010	<50	410	<0.50	<1.0	<1.0	<1.0	310	<10	<2.0	<2.0	<2.0	350.31	12.99	337.32
MW-5	05/06/2010	<50	160	<1.0	<2.0	<2.0	<2.0	210	<20	<4.0	<4.0	<4.0	350.31	13.21	337.10
MW-5	08/05/2010	<50	310	<1.0	<2.0	<2.0	<2.0	250	39	<4.0	<4.0	<4.0	350.31	14.25	336.06
MW-5	11/08/2010	<50	210	<1.0	<2.0	<2.0	<2.0	210	<20	<4.0	<4.0	<4.0	350.31	14.20	336.11
MW-5	02/03/2011	<47	79 a	<0.50	<0.50	<0.50	<1.0	140	<10	<1.0	<1.0	<1.0	350.31	14.28	336.03
MW-5	**05/16/2011**	**<50**	**150**	**<0.50**	**<0.50**	**<0.50**	**<1.0**	**200**	**21 b**	**<1.0**	**<1.0**	**<1.0**	**350.31**	**13.65**	**336.66**
MW-6	03/15/2010	---	---	---	---	---	---	---	---	---	---	---	350.29	12.79	337.50
MW-6	03/19/2010	<50	<50	<0.50	<1.0	<1.0	<1.0	18	<10	<2.0	<2.0	<2.0	350.29	12.84	337.45
MW-6	05/06/2010	<50	<50	<0.50	<1.0	<1.0	<1.0	7.4	<10	<2.0	<2.0	<2.0	350.29	13.14	337.15
MW-6	08/05/2010	<50	53	<0.50	<1.0	<1.0	<1.0	4.0	<10	<2.0	<2.0	<2.0	350.29	14.12	336.17
MW-6	11/08/2010	<50	<50	<0.50	<1.0	<1.0	<1.0	7.8	<10	<2.0	<2.0	<2.0	350.29	14.12	336.17
MW-6	02/03/2011	<47	<50	<0.50	<0.50	<0.50	<1.0	18	<10	<1.0	<1.0	<1.0	350.29	14.05	336.24
MW-6	**05/16/2011**	**<51**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<1.0**	**9.8**	**<10**	**<1.0**	**<1.0**	**<1.0**	**350.29**	**13.19**	**337.10**

Notes:
TPHd = Total petroleum hydrocarbons as diesel analyzed by modified EPA Method 8015 with silica gel cleanup
TPHg = Total petroleum hydrocarbons as gasoline analyzed by EPA Method 8260B
BTEX = Benzene, toluene, ethylbenzene, and total xylenes analyzed by EPA Method 8260B
MTBE = Methyl tertiary-butyl ether analyzed by EPA Method 8260B
TBA = Tertiary-butyl alcohol analyzed 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
TOC = Top of casing elevation, in feet relative to mean sea level
GW = Groundwater
µg/L = Micrograms per liter

TABLE 1

GROUNDWATER DATA
SHELL-BRANDED SERVICE STATION
4895 HACIENDA DRIVE, DUBLIN, CALIFORNIA

Well ID	*Date*	*TPHd (µg/L)*	*TPHg (µg/L)*	*B (µg/L)*	*T (µg/L)*	*E (µg/L)*	*X (µg/L)*	*MTBE (µg/L)*	*TBA (µg/L)*	*DIPE (µg/L)*	*ETBE (µg/L)*	*TAME (µg/L)*	*TOC (ft MSL)*	*Depth to Water (ft TOC)*	*GW Elevation (ft MSL)*

ft = Feet
MSL = Mean sea level
<x = Not detected at reporting limit x
--- = Not analyzed or not available

a = Hydrocarbon result partly due to individual peaks in quantitation range
b = Due to the low levels of analyte found in the sample, the analyte was qualitatively identified based on the compound's retention time and the presence of a single mass ion.

Site wells surveyed March 19, 2010 by Mid Coast Engineers.

APPENDIX A

BLAINE TECH SERVICES, INC. - FIELD NOTES

WELL GAUGING DATA

Project # 105161-RC2 Date 5/16/11 Client ~~CRA~~ SHELL

Site 4895 Hacienda Dr., Dublin

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	1228	4					12.05	30.18		
MW-2	1240	4					13.50	29.95		
MW-3	1307	4					13.05	25.10		
MW-4	1249	4					13.64	27.35		
MW-5	1315	4					13.65	29.49		
MW-6	1259	4					13.19	25.22		

SHELL WELL MONITORING DATA SHEET

BTS #: 110516-PC2	Site: 4895 Hacienda
Sampler: PC	Date: 5/16/11
Well I.D.: MW-1	Well Diameter: 2 3 (4) 6 8 ___
Total Well Depth (TD): 30.18	Depth to Water (DTW): 12.05
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]: 15.68	

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: _____

11.8 (Gals.) X	3	= 35.4 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 (uS))	Turbidity (NTUs)	Gals. Removed	Observations
1315	66.8	6.76	1578	139	11.8	
1318	67.0	6.98	1460	114	24	
1321	66.7	7.22	1463	207	35.4	

Did well dewater? Yes (No) Gallons actually evacuated: 35.4

Sampling Date: 5/16/11 Sampling Time: 1330 Depth to Water: 14.20

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

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

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 #: 110516-PC2	Site: 4545 Hacienda
Sampler: PC	Date: 5/16/11
Well I.D.: MW-2	Well Diameter: ~~2~~ 3 (4) 6 8 ____
Total Well Depth (TD): 29.96	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]: 16.86	

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: ____

10.7 (Gals.) X 3 = 32.1 Gals.
1 Case Volume | Specified Volumes | Calculated Volume

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

Time	Temp (°F)	pH	Cond. (mS or ~~µS~~)	Turbidity (NTUs)	Gals. Removed	Observations
1418	64.5	7.71	1579	393	10.7	
1421	66.1	7.46	1606	177	21.4	
1424	67.0	7.37	1645	90	32.1	

Did well dewater? Yes (No) Gallons actually evacuated: 32.1

Sampling Date: 5/16/11 Sampling Time: 1430 Depth to Water: 14.37

Sample I.D.: MW-2 Laboratory: (Test America) Other ____

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

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 #: 110516-PC2	Site: 4845 Hacienda
Sampler: PC	Date: 5/16/11
Well I.D.: MW-3	Well Diameter: 2 3 (4) 6 8 ___
Total Well Depth (TD): 25.10	Depth to Water (DTW): 13.05
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]: 15.46	

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

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

7.8 (Gals.) X	3 =	23.4 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
1445	63.0	7.43	2941	123	7.8	
1447	63.3	7.25	3122	209	15.6	
1450	63.9	7.18	3172	936	23.4	

Did well dewater? Yes (No) Gallons actually evacuated: 23.4

Sampling Date: 5/16/11 Sampling Time: 1458 Depth to Water: 15.15

Sample I.D.: MW-3 Laboratory: (Test America) Other_____

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

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 #: 110516-PC2	Site: 4525 Hacienda
Sampler: PC	Date: 5/16/11
Well I.D.: MW-4	Well Diameter: 2 3 (4) 6 8 ____
Total Well Depth (TD): 27.35	Depth to Water (DTW): 13.64
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 16.38	

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: _____

8.9 (Gals.) X 3 = 26.7 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
1338	66.0	7.49	2415	243	8.9	
1341	66.9	7.24	2532	444	17.8	
1343	67.1	7.21	2702	339	26.7	

Did well dewater? Yes (No) Gallons actually evacuated: 26.7

Sampling Date: 5/16/11 Sampling Time: 1350 Depth to Water: 15.81

Sample I.D.: MW-4 Laboratory: (Test America) Other_____

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

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 #: 110516-PC2	Site: 4815 Hacienda
Sampler: PC	Date: 5/16/11
Well I.D.: MW-5	Well Diameter: 2 3 (4) 6 8 ____
Total Well Depth (TD): 29.49	Depth to Water (DTW): 13.65
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]: 16.82	

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:

10.3 (Gals.) X	3 =	30.9 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	radius^2 * 0.163

Time	Temp (°F)	pH	Cond. (mS or µS)	Turbidity (NTUs)	Gals. Removed	Observations
1510	64.0	7.85	1832	285	10.3	
1512	65.4	7.51	1742	599	20.6	
1515	65.8	7.54	1678	>1000	30.9	

Did well dewater? Yes (No) Gallons actually evacuated: 30.9

Sampling Date: 5/16/11 Sampling Time: 1522 Depth to Water: 14.05

Sample I.D.: MW-5 Laboratory: (Test America) Other____

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

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 #: 110516-PC2	Site: 4815 Hacienda
Sampler: PC	Date: 5/16/11
Well I.D.: MW-6	Well Diameter: 2 3 (4) 6 8 ___
Total Well Depth (TD): 25.22	Depth to Water (DTW): 13.19
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]: 15.60	

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

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

7.8 (Gals.) X 3 = 23.4 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
1400	62.0	7.99	1616	183	7.8	
1402	63.2	7.64	1570	180	15.6	
1404	63.4	7.54	1589	340	23.4	

Did well dewater? Yes (No) Gallons actually evacuated: 23.4

Sampling Date: 5/16/11 Sampling Time: 1410 Depth to Water: 14.20

Sample I.D.: MW-6 Laboratory: (Test America) Other ____

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

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 4895 Hacienda Dr., Dublin Date 5/16/11

Job Number 110516-PC2 Technician P. Cornish 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	X						
MW-4		X							
MW-5	~~X~~	X							
MW-6	X	X							

***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:

APPENDIX B

TEST AMERICA –
LABORATORY REPORT

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

17461 Derian Avenue. Suite 100, Irvine, CA 92614 (949) 261-1022 Fax:(949) 260-3297

LABORATORY REPORT

Prepared For: Blaine Tech San Jose/CRA Shell
1680 Rogers Avenue
San Jose, CA 95112-1105
Attention: Lorin King

Project: 4895 Hacienda Dr., Dublin, CA

Sampled: 05/16/11
Received: 05/18/11
Issued: 06/02/11 18:06

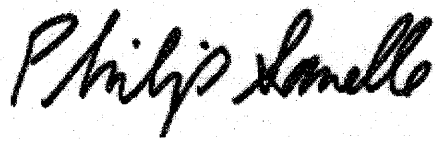
NELAP #01108CA California ELAP#2706 CSDLAC #10256 AZ #AZ0671 NV #CA01531

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica. The Chain of Custody, 1 page, is included and is an integral part of this report.
This entire report was reviewed and approved for release.

SAMPLE CROSS REFERENCE

LABORATORY ID	CLIENT ID	MATRIX
IUE2035-01	MW-1	Water
IUE2035-02	MW-2	Water
IUE2035-03	MW-3	Water
IUE2035-04	MW-4	Water
IUE2035-05	MW-5	Water
IUE2035-06	MW-6	Water

Reviewed By:



TestAmerica Irvine

Philip Sanelle
Project Manager

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Blaine Tech San Jose/CRA Shell
1680 Rogers Avenue
San Jose, CA 95112-1105
Attention: Lorin King

Project ID: 4895 Hacienda Dr., Dublin, CA

Report Number: IUE2035

Sampled: 05/16/11
Received: 05/18/11

EXTRACTABLE FUEL HYDROCARBONS (EPA 8015B w/ Silica Gel Clean-up)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IUE2035-01 (MW-1 - Water)								
Reporting Units: ug/l								
DRO (C10-C28)	EPA 8015B	11E3185	50	ND	1	5/23/2011	5/24/2011	
Surrogate: n-Octacosane (45-120%)				*75 %*				
Sample ID: IUE2035-02 (MW-2 - Water)								
Reporting Units: ug/l								
DRO (C10-C28)	EPA 8015B	11E3185	50	ND	1	5/23/2011	5/24/2011	
Surrogate: n-Octacosane (45-120%)				*67 %*				
Sample ID: IUE2035-03 (MW-3 - Water)								
Reporting Units: ug/l								
DRO (C10-C28)	EPA 8015B	11E3185	50	ND	1	5/23/2011	5/24/2011	
Surrogate: n-Octacosane (45-120%)				*76 %*				
Sample ID: IUE2035-04 (MW-4 - Water)								
Reporting Units: ug/l								
DRO (C10-C28)	EPA 8015B	11E3185	51	ND	1.01	5/23/2011	5/24/2011	
Surrogate: n-Octacosane (45-120%)				*63 %*				
Sample ID: IUE2035-05 (MW-5 - Water)								
Reporting Units: ug/l								
DRO (C10-C28)	EPA 8015B	11E3185	50	ND	1	5/23/2011	5/24/2011	
Surrogate: n-Octacosane (45-120%)				*82 %*				
Sample ID: IUE2035-06 (MW-6 - Water)								
Reporting Units: ug/l								
DRO (C10-C28)	EPA 8015B	11E3185	51	ND	1.01	5/23/2011	5/24/2011	
Surrogate: n-Octacosane (45-120%)				*77 %*				

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Attention: Lorin King

Project ID: 4895 Hacienda Dr., Dublin, CA
Report Number: IUE2035

Sampled: 05/16/11
Received: 05/18/11

VOLATILE FUEL HYDROCARBONS BY GC/MS (CA LUFT)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IUE2035-01 (MW-1 - Water)								
Reporting Units: ug/l								
Volatile Fuel Hydrocarbons (C4-C12)	TPH by GC/MS	11E3288	50	ND	1	5/24/2011	5/24/2011	
Surrogate: Dibromofluoromethane (80-120%)				*102 %*				
Surrogate: Toluene-d8 (80-120%)				*104 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)				*95 %*				
Sample ID: IUE2035-02 (MW-2 - Water)								
Reporting Units: ug/l								
Volatile Fuel Hydrocarbons (C4-C12)	TPH by GC/MS	11E3136	50	ND	1	5/23/2011	5/24/2011	
Surrogate: Dibromofluoromethane (80-120%)				*98 %*				
Surrogate: Toluene-d8 (80-120%)				*100 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)				*94 %*				
Sample ID: IUE2035-03 (MW-3 - Water)								
Reporting Units: ug/l								
Volatile Fuel Hydrocarbons (C4-C12)	TPH by GC/MS	11E3136	50	ND	1	5/23/2011	5/24/2011	
Surrogate: Dibromofluoromethane (80-120%)				*101 %*				
Surrogate: Toluene-d8 (80-120%)				*101 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)				*93 %*				
Sample ID: IUE2035-04 (MW-4 - Water)								
Reporting Units: ug/l								
Volatile Fuel Hydrocarbons (C4-C12)	TPH by GC/MS	11E3288	50	ND	1	5/24/2011	5/24/2011	
Surrogate: Dibromofluoromethane (80-120%)				*103 %*				
Surrogate: Toluene-d8 (80-120%)				*102 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)				*99 %*				
Sample ID: IUE2035-05 (MW-5 - Water)								
Reporting Units: ug/l								
Volatile Fuel Hydrocarbons (C4-C12)	TPH by GC/MS	11E3288	50	**150**	1	5/24/2011	5/24/2011	
Surrogate: Dibromofluoromethane (80-120%)				*102 %*				
Surrogate: Toluene-d8 (80-120%)				*99 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)				*94 %*				
Sample ID: IUE2035-06 (MW-6 - Water)								
Reporting Units: ug/l								
Volatile Fuel Hydrocarbons (C4-C12)	TPH by GC/MS	11E3136	50	ND	1	5/23/2011	5/24/2011	
Surrogate: Dibromofluoromethane (80-120%)				*101 %*				
Surrogate: Toluene-d8 (80-120%)				*101 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)				*92 %*				

TestAmerica Irvine

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1680 Rogers Avenue
San Jose, CA 95112-1105
Attention: Lorin King

Project ID: 4895 Hacienda Dr., Dublin, CA

Report Number: IUE2035

Sampled: 05/16/11
Received: 05/18/11

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IUE2035-01 (MW-1 - Water)								
Reporting Units: ug/l								
Benzene	EPA 8260B	11E3288	0.50	ND	1	5/24/2011	5/24/2011	
Ethylbenzene	EPA 8260B	11E3288	0.50	ND	1	5/24/2011	5/24/2011	
Toluene	EPA 8260B	11E3288	0.50	ND	1	5/24/2011	5/24/2011	
Xylenes, Total	EPA 8260B	11E3288	1.0	ND	1	5/24/2011	5/24/2011	
Di-isopropyl Ether (DIPE)	EPA 8260B	11E3288	1.0	ND	1	5/24/2011	5/24/2011	
Ethyl tert-Butyl Ether (ETBE)	EPA 8260B	11E3288	1.0	ND	1	5/24/2011	5/24/2011	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	11E3288	1.0	ND	1	5/24/2011	5/24/2011	
tert-Amyl Methyl Ether (TAME)	EPA 8260B	11E3288	1.0	ND	1	5/24/2011	5/24/2011	
tert-Butanol (TBA)	EPA 8260B	11E3288	10	ND	1	5/24/2011	5/24/2011	
Surrogate: 4-Bromofluorobenzene (80-120%)				*95 %*				
Surrogate: Dibromofluoromethane (80-120%)				*102 %*				
Surrogate: Toluene-d8 (80-120%)				*104 %*				
Sample ID: IUE2035-02 (MW-2 - Water)								
Reporting Units: ug/l								
Benzene	EPA 8260B	11E3136	0.50	ND	1	5/23/2011	5/24/2011	
Ethylbenzene	EPA 8260B	11E3136	0.50	ND	1	5/23/2011	5/24/2011	
Toluene	EPA 8260B	11E3136	0.50	ND	1	5/23/2011	5/24/2011	
Xylenes, Total	EPA 8260B	11E3136	1.0	ND	1	5/23/2011	5/24/2011	
Di-isopropyl Ether (DIPE)	EPA 8260B	11E3136	1.0	ND	1	5/23/2011	5/24/2011	
Ethyl tert-Butyl Ether (ETBE)	EPA 8260B	11E3136	1.0	ND	1	5/23/2011	5/24/2011	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	11E3136	1.0	**22**	1	5/23/2011	5/24/2011	
tert-Amyl Methyl Ether (TAME)	EPA 8260B	11E3136	1.0	ND	1	5/23/2011	5/24/2011	
tert-Butanol (TBA)	EPA 8260B	11E3136	10	ND	1	5/23/2011	5/24/2011	
Surrogate: 4-Bromofluorobenzene (80-120%)				*94 %*				
Surrogate: Dibromofluoromethane (80-120%)				*98 %*				
Surrogate: Toluene-d8 (80-120%)				*100 %*				

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Attention: Lorin King

Project ID: 4895 Hacienda Dr., Dublin, CA

Report Number: IUE2035

Sampled: 05/16/11
Received: 05/18/11

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IUE2035-03 (MW-3 - Water)								
Reporting Units: ug/l								
Benzene	EPA 8260B	11E3136	0.50	ND	1	5/23/2011	5/24/2011	
Ethylbenzene	EPA 8260B	11E3136	0.50	ND	1	5/23/2011	5/24/2011	
Toluene	EPA 8260B	11E3136	0.50	ND	1	5/23/2011	5/24/2011	
Xylenes, Total	EPA 8260B	11E3136	1.0	ND	1	5/23/2011	5/24/2011	
Di-isopropyl Ether (DIPE)	EPA 8260B	11E3136	1.0	ND	1	5/23/2011	5/24/2011	
Ethyl tert-Butyl Ether (ETBE)	EPA 8260B	11E3136	1.0	ND	1	5/23/2011	5/24/2011	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	11E3136	1.0	**10**	1	5/23/2011	5/24/2011	
tert-Amyl Methyl Ether (TAME)	EPA 8260B	11E3136	1.0	ND	1	5/23/2011	5/24/2011	
tert-Butanol (TBA)	EPA 8260B	11E3136	10	ND	1	5/23/2011	5/24/2011	
Surrogate: 4-Bromofluorobenzene (80-120%)				*93 %*				
Surrogate: Dibromofluoromethane (80-120%)				*101 %*				
Surrogate: Toluene-d8 (80-120%)				*101 %*				
Sample ID: IUE2035-04 (MW-4 - Water)								
Reporting Units: ug/l								
Benzene	EPA 8260B	11E3288	0.50	ND	1	5/24/2011	5/24/2011	
Ethylbenzene	EPA 8260B	11E3288	0.50	ND	1	5/24/2011	5/24/2011	
Toluene	EPA 8260B	11E3288	0.50	ND	1	5/24/2011	5/24/2011	
Xylenes, Total	EPA 8260B	11E3288	1.0	ND	1	5/24/2011	5/24/2011	
Di-isopropyl Ether (DIPE)	EPA 8260B	11E3288	1.0	ND	1	5/24/2011	5/24/2011	
Ethyl tert-Butyl Ether (ETBE)	EPA 8260B	11E3288	1.0	ND	1	5/24/2011	5/24/2011	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	11E3288	1.0	**29**	1	5/24/2011	5/24/2011	
tert-Amyl Methyl Ether (TAME)	EPA 8260B	11E3288	1.0	ND	1	5/24/2011	5/24/2011	
tert-Butanol (TBA)	EPA 8260B	11E3288	10	ND	1	5/24/2011	5/24/2011	
Surrogate: 4-Bromofluorobenzene (80-120%)				*99 %*				
Surrogate: Dibromofluoromethane (80-120%)				*103 %*				
Surrogate: Toluene-d8 (80-120%)				*102 %*				

TestAmerica Irvine

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Attention: Lorin King

Project ID: 4895 Hacienda Dr., Dublin, CA

Report Number: IUE2035

Sampled: 05/16/11
Received: 05/18/11

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IUE2035-05 (MW-5 - Water)								
Reporting Units: ug/l								
Benzene	EPA 8260B	11E3288	0.50	ND	1	5/24/2011	5/24/2011	
Ethylbenzene	EPA 8260B	11E3288	0.50	ND	1	5/24/2011	5/24/2011	
Toluene	EPA 8260B	11E3288	0.50	ND	1	5/24/2011	5/24/2011	
Xylenes, Total	EPA 8260B	11E3288	1.0	ND	1	5/24/2011	5/24/2011	
Di-isopropyl Ether (DIPE)	EPA 8260B	11E3288	1.0	ND	1	5/24/2011	5/24/2011	
Ethyl tert-Butyl Ether (ETBE)	EPA 8260B	11E3288	1.0	ND	1	5/24/2011	5/24/2011	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	11E3288	1.0	**200**	1	5/24/2011	5/24/2011	
tert-Amyl Methyl Ether (TAME)	EPA 8260B	11E3288	1.0	ND	1	5/24/2011	5/24/2011	
tert-Butanol (TBA)	EPA 8260B	11E3288	10	**21**	1	5/24/2011	5/24/2011	ID
Surrogate: 4-Bromofluorobenzene (80-120%)				*94 %*				
Surrogate: Dibromofluoromethane (80-120%)				*102 %*				
Surrogate: Toluene-d8 (80-120%)				*99 %*				
Sample ID: IUE2035-06 (MW-6 - Water)								
Reporting Units: ug/l								
Benzene	EPA 8260B	11E3136	0.50	ND	1	5/23/2011	5/24/2011	
Ethylbenzene	EPA 8260B	11E3136	0.50	ND	1	5/23/2011	5/24/2011	
Toluene	EPA 8260B	11E3136	0.50	ND	1	5/23/2011	5/24/2011	
Xylenes, Total	EPA 8260B	11E3136	1.0	ND	1	5/23/2011	5/24/2011	
Di-isopropyl Ether (DIPE)	EPA 8260B	11E3136	1.0	ND	1	5/23/2011	5/24/2011	
Ethyl tert-Butyl Ether (ETBE)	EPA 8260B	11E3136	1.0	ND	1	5/23/2011	5/24/2011	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	11E3136	1.0	**9.8**	1	5/23/2011	5/24/2011	
tert-Amyl Methyl Ether (TAME)	EPA 8260B	11E3136	1.0	ND	1	5/23/2011	5/24/2011	
tert-Butanol (TBA)	EPA 8260B	11E3136	10	ND	1	5/23/2011	5/24/2011	
Surrogate: 4-Bromofluorobenzene (80-120%)				*92 %*				
Surrogate: Dibromofluoromethane (80-120%)				*101 %*				
Surrogate: Toluene-d8 (80-120%)				*101 %*				

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Report Number: IUE2035

Sampled: 05/16/11
Received: 05/18/11

METHOD BLANK/QC DATA

EXTRACTABLE FUEL HYDROCARBONS (EPA 8015B w/ Silica Gel Clean-up)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11E3185 Extracted: 05/23/11										
Blank Analyzed: 05/24/2011 (11E3185-BLK1)										
DRO (C10-C28)	ND	50	ug/l							
Surrogate: n-Octacosane	*153*		*ug/l*	*200*		*76*	*45-120*			
LCS Analyzed: 05/24/2011 (11E3185-BS1)										**MNR1**
DRO (C10-C28)	712	50	ug/l	1000		71	40-115			
Surrogate: n-Octacosane	*146*		*ug/l*	*200*		*73*	*45-120*			
LCS Dup Analyzed: 05/24/2011 (11E3185-BSD1)										
DRO (C10-C28)	645	50	ug/l	1000		65	40-115	10	25	
Surrogate: n-Octacosane	*139*		*ug/l*	*200*		*70*	*45-120*			

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METHOD BLANK/QC DATA

VOLATILE FUEL HYDROCARBONS BY GC/MS (CA LUFT)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11E3136 Extracted: 05/23/11										
Blank Analyzed: 05/23/2011 (11E3136-BLK1)										
Volatile Fuel Hydrocarbons (C4-C12)	ND	50	ug/l							
Surrogate: Dibromofluoromethane	*25.0*		*ug/l*	*25.0*		*100*	*80-120*			
Surrogate: Toluene-d8	*25.5*		*ug/l*	*25.0*		*102*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*23.3*		*ug/l*	*25.0*		*93*	*80-120*			
LCS Analyzed: 05/23/2011 (11E3136-BS2)										
Volatile Fuel Hydrocarbons (C4-C12)	363	50	ug/l	500		73	55-130			
Surrogate: Dibromofluoromethane	*23.7*		*ug/l*	*25.0*		*95*	*80-120*			
Surrogate: Toluene-d8	*24.3*		*ug/l*	*25.0*		*97*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*22.9*		*ug/l*	*25.0*		*92*	*80-120*			
Matrix Spike Analyzed: 05/23/2011 (11E3136-MS1)					**Source: IUE1550-12**					
Volatile Fuel Hydrocarbons (C4-C12)	1100	50	ug/l	1720	ND	64	50-145			
Surrogate: Dibromofluoromethane	*23.7*		*ug/l*	*25.0*		*95*	*80-120*			
Surrogate: Toluene-d8	*25.6*		*ug/l*	*25.0*		*103*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*23.3*		*ug/l*	*25.0*		*93*	*80-120*			
Matrix Spike Dup Analyzed: 05/23/2011 (11E3136-MSD1)					**Source: IUE1550-12**					
Volatile Fuel Hydrocarbons (C4-C12)	1100	50	ug/l	1720	ND	64	50-145	0.5	20	
Surrogate: Dibromofluoromethane	*23.6*		*ug/l*	*25.0*		*94*	*80-120*			
Surrogate: Toluene-d8	*25.5*		*ug/l*	*25.0*		*102*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*23.3*		*ug/l*	*25.0*		*93*	*80-120*			
Batch: 11E3288 Extracted: 05/24/11										
Blank Analyzed: 05/24/2011 (11E3288-BLK1)										
Volatile Fuel Hydrocarbons (C4-C12)	ND	50	ug/l							
Surrogate: Dibromofluoromethane	*25.7*		*ug/l*	*25.0*		*103*	*80-120*			
Surrogate: Toluene-d8	*25.6*		*ug/l*	*25.0*		*102*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*23.6*		*ug/l*	*25.0*		*95*	*80-120*			

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VOLATILE FUEL HYDROCARBONS BY GC/MS (CA LUFT)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11E3288 Extracted: 05/24/11										
LCS Analyzed: 05/24/2011 (11E3288-BS2)										
Volatile Fuel Hydrocarbons (C4-C12)	511	50	ug/l	500		102	55-130			
Surrogate: Dibromofluoromethane	*25.4*		*ug/l*	*25.0*		*102*	*80-120*			
Surrogate: Toluene-d8	*27.2*		*ug/l*	*25.0*		*109*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*25.3*		*ug/l*	*25.0*		*101*	*80-120*			
Matrix Spike Analyzed: 05/24/2011 (11E3288-MS1)					**Source: IUE2015-05**					
Volatile Fuel Hydrocarbons (C4-C12)	1500	50	ug/l	1720	ND	87	50-145			
Surrogate: Dibromofluoromethane	*27.4*		*ug/l*	*25.0*		*109*	*80-120*			
Surrogate: Toluene-d8	*25.3*		*ug/l*	*25.0*		*101*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*26.1*		*ug/l*	*25.0*		*104*	*80-120*			
Matrix Spike Dup Analyzed: 05/24/2011 (11E3288-MSD1)					**Source: IUE2015-05**					
Volatile Fuel Hydrocarbons (C4-C12)	1570	50	ug/l	1720	ND	91	50-145	4	20	
Surrogate: Dibromofluoromethane	*27.2*		*ug/l*	*25.0*		*109*	*80-120*			
Surrogate: Toluene-d8	*26.8*		*ug/l*	*25.0*		*107*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*25.1*		*ug/l*	*25.0*		*100*	*80-120*			

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METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11E3136 Extracted: 05/23/11										
Blank Analyzed: 05/23/2011 (11E3136-BLK1)										
Benzene	ND	0.50	ug/l							
Ethylbenzene	ND	0.50	ug/l							
Toluene	ND	0.50	ug/l							
m,p-Xylenes	ND	1.0	ug/l							
o-Xylene	ND	0.50	ug/l							
Xylenes, Total	ND	1.0	ug/l							
Di-isopropyl Ether (DIPE)	ND	1.0	ug/l							
Ethyl tert-Butyl Ether (ETBE)	ND	1.0	ug/l							
Methyl-tert-butyl Ether (MTBE)	ND	1.0	ug/l							
tert-Amyl Methyl Ether (TAME)	ND	1.0	ug/l							
tert-Butanol (TBA)	ND	10	ug/l							
Surrogate: 4-Bromofluorobenzene	*23.3*		*ug/l*	*25.0*		*93*	*80-120*			
Surrogate: Dibromofluoromethane	*25.0*		*ug/l*	*25.0*		*100*	*80-120*			
Surrogate: Toluene-d8	*25.5*		*ug/l*	*25.0*		*102*	*80-120*			
LCS Analyzed: 05/23/2011 (11E3136-BS1)										
Benzene	19.4	0.50	ug/l	25.0		78	70-120			
Ethylbenzene	21.3	0.50	ug/l	25.0		85	75-125			
Toluene	20.1	0.50	ug/l	25.0		81	70-120			
m,p-Xylenes	42.6	1.0	ug/l	50.0		85	75-125			
o-Xylene	20.5	0.50	ug/l	25.0		82	75-125			
Xylenes, Total	63.0	1.0	ug/l	75.0		84	70-125			
Di-isopropyl Ether (DIPE)	18.5	1.0	ug/l	25.0		74	60-135			
Ethyl tert-Butyl Ether (ETBE)	19.7	1.0	ug/l	25.0		79	65-135			
Methyl-tert-butyl Ether (MTBE)	20.0	1.0	ug/l	25.0		80	60-135			
tert-Amyl Methyl Ether (TAME)	22.1	1.0	ug/l	25.0		88	60-135			
tert-Butanol (TBA)	108	10	ug/l	125		87	70-135			
Surrogate: 4-Bromofluorobenzene	*24.0*		*ug/l*	*25.0*		*96*	*80-120*			
Surrogate: Dibromofluoromethane	*24.0*		*ug/l*	*25.0*		*96*	*80-120*			
Surrogate: Toluene-d8	*25.4*		*ug/l*	*25.0*		*102*	*80-120*			

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METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11E3136 Extracted: 05/23/11										
Matrix Spike Analyzed: 05/23/2011 (11E3136-MS1)					**Source: IUE1550-12**					
Benzene	20.9	0.50	ug/l	25.0	ND	84	65-125			
Ethylbenzene	23.0	0.50	ug/l	25.0	ND	92	65-130			
Toluene	21.8	0.50	ug/l	25.0	ND	87	70-125			
m,p-Xylenes	45.1	1.0	ug/l	50.0	ND	90	65-130			
o-Xylene	21.9	0.50	ug/l	25.0	ND	88	65-125			
Xylenes, Total	67.0	1.0	ug/l	75.0	ND	89	60-130			
Di-isopropyl Ether (DIPE)	19.3	1.0	ug/l	25.0	ND	77	60-140			
Ethyl tert-Butyl Ether (ETBE)	20.4	1.0	ug/l	25.0	ND	81	60-135			
Methyl-tert-butyl Ether (MTBE)	21.8	1.0	ug/l	25.0	ND	87	55-145			
tert-Amyl Methyl Ether (TAME)	23.4	1.0	ug/l	25.0	ND	93	60-140			
tert-Butanol (TBA)	114	10	ug/l	125	ND	91	65-140			
Surrogate: 4-Bromofluorobenzene	*23.3*		*ug/l*	*25.0*		*93*	*80-120*			
Surrogate: Dibromofluoromethane	*23.7*		*ug/l*	*25.0*		*95*	*80-120*			
Surrogate: Toluene-d8	*25.6*		*ug/l*	*25.0*		*103*	*80-120*			
Matrix Spike Dup Analyzed: 05/23/2011 (11E3136-MSD1)					**Source: IUE1550-12**					
Benzene	20.9	0.50	ug/l	25.0	ND	84	65-125	0.05	20	
Ethylbenzene	22.8	0.50	ug/l	25.0	ND	91	65-130	0.8	20	
Toluene	21.8	0.50	ug/l	25.0	ND	87	70-125	0.3	20	
m,p-Xylenes	45.3	1.0	ug/l	50.0	ND	91	65-130	0.5	25	
o-Xylene	22.3	0.50	ug/l	25.0	ND	89	65-125	2	20	
Xylenes, Total	67.6	1.0	ug/l	75.0	ND	90	60-130	0.9	20	
Di-isopropyl Ether (DIPE)	19.2	1.0	ug/l	25.0	ND	77	60-140	0.5	25	
Ethyl tert-Butyl Ether (ETBE)	21.2	1.0	ug/l	25.0	ND	85	60-135	4	25	
Methyl-tert-butyl Ether (MTBE)	22.0	1.0	ug/l	25.0	ND	88	55-145	1	25	
tert-Amyl Methyl Ether (TAME)	24.3	1.0	ug/l	25.0	ND	97	60-140	4	30	
tert-Butanol (TBA)	115	10	ug/l	125	ND	92	65-140	1	25	
Surrogate: 4-Bromofluorobenzene	*23.3*		*ug/l*	*25.0*		*93*	*80-120*			
Surrogate: Dibromofluoromethane	*23.6*		*ug/l*	*25.0*		*94*	*80-120*			
Surrogate: Toluene-d8	*25.5*		*ug/l*	*25.0*		*102*	*80-120*			

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METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11E3288 Extracted: 05/24/11										
Blank Analyzed: 05/24/2011 (11E3288-BLK1)										
Benzene	ND	0.50	ug/l							
Ethylbenzene	ND	0.50	ug/l							
Toluene	ND	0.50	ug/l							
m,p-Xylenes	ND	1.0	ug/l							
o-Xylene	ND	0.50	ug/l							
Xylenes, Total	ND	1.0	ug/l							
Di-isopropyl Ether (DIPE)	ND	1.0	ug/l							
Ethyl tert-Butyl Ether (ETBE)	ND	1.0	ug/l							
Methyl-tert-butyl Ether (MTBE)	ND	1.0	ug/l							
tert-Amyl Methyl Ether (TAME)	ND	1.0	ug/l							
tert-Butanol (TBA)	ND	10	ug/l							
Surrogate: 4-Bromofluorobenzene	*23.6*		*ug/l*	*25.0*		*95*	*80-120*			
Surrogate: Dibromofluoromethane	*25.7*		*ug/l*	*25.0*		*103*	*80-120*			
Surrogate: Toluene-d8	*25.6*		*ug/l*	*25.0*		*102*	*80-120*			
LCS Analyzed: 05/24/2011 (11E3288-BS1)										
Benzene	25.6	0.50	ug/l	25.0		102	70-120			
Ethylbenzene	28.2	0.50	ug/l	25.0		113	75-125			
Toluene	25.6	0.50	ug/l	25.0		102	70-120			
m,p-Xylenes	55.5	1.0	ug/l	50.0		111	75-125			
o-Xylene	28.2	0.50	ug/l	25.0		113	75-125			
Xylenes, Total	83.7	1.0	ug/l	75.0		112	70-125			
Di-isopropyl Ether (DIPE)	18.3	1.0	ug/l	25.0		73	60-135			
Ethyl tert-Butyl Ether (ETBE)	19.1	1.0	ug/l	25.0		77	65-135			
Methyl-tert-butyl Ether (MTBE)	23.5	1.0	ug/l	25.0		94	60-135			
tert-Amyl Methyl Ether (TAME)	24.0	1.0	ug/l	25.0		96	60-135			
tert-Butanol (TBA)	130	10	ug/l	125		104	70-135			
Surrogate: 4-Bromofluorobenzene	*24.8*		*ug/l*	*25.0*		*99*	*80-120*			
Surrogate: Dibromofluoromethane	*26.5*		*ug/l*	*25.0*		*106*	*80-120*			
Surrogate: Toluene-d8	*25.3*		*ug/l*	*25.0*		*101*	*80-120*			

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METHOD BLANK/QC DATA

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11E3288 Extracted: 05/24/11										
Matrix Spike Analyzed: 05/24/2011 (11E3288-MS1)					**Source: IUE2015-05**					
Benzene	24.4	0.50	ug/l	25.0	ND	98	65-125			
Ethylbenzene	27.5	0.50	ug/l	25.0	ND	110	65-130			
Toluene	26.1	0.50	ug/l	25.0	ND	104	70-125			
m,p-Xylenes	55.7	1.0	ug/l	50.0	ND	111	65-130			
o-Xylene	28.1	0.50	ug/l	25.0	ND	112	65-125			
Xylenes, Total	83.8	1.0	ug/l	75.0	ND	112	60-130			
Di-isopropyl Ether (DIPE)	19.6	1.0	ug/l	25.0	ND	79	60-140			
Ethyl tert-Butyl Ether (ETBE)	19.4	1.0	ug/l	25.0	ND	77	60-135			
Methyl-tert-butyl Ether (MTBE)	27.0	1.0	ug/l	25.0	1.79	101	55-145			
tert-Amyl Methyl Ether (TAME)	23.6	1.0	ug/l	25.0	ND	94	60-140			
tert-Butanol (TBA)	140	10	ug/l	125	ND	112	65-140			
Surrogate: 4-Bromofluorobenzene	*26.1*		*ug/l*	*25.0*		*104*	*80-120*			
Surrogate: Dibromofluoromethane	*27.4*		*ug/l*	*25.0*		*109*	*80-120*			
Surrogate: Toluene-d8	*25.3*		*ug/l*	*25.0*		*101*	*80-120*			
Matrix Spike Dup Analyzed: 05/24/2011 (11E3288-MSD1)					**Source: IUE2015-05**					
Benzene	27.1	0.50	ug/l	25.0	ND	108	65-125	11	20	
Ethylbenzene	27.9	0.50	ug/l	25.0	ND	111	65-130	1	20	
Toluene	29.0	0.50	ug/l	25.0	ND	116	70-125	11	20	
m,p-Xylenes	58.8	1.0	ug/l	50.0	ND	118	65-130	5	25	
o-Xylene	28.4	0.50	ug/l	25.0	ND	113	65-125	0.9	20	
Xylenes, Total	87.2	1.0	ug/l	75.0	ND	116	60-130	4	20	
Di-isopropyl Ether (DIPE)	18.9	1.0	ug/l	25.0	ND	75	60-140	4	25	
Ethyl tert-Butyl Ether (ETBE)	19.0	1.0	ug/l	25.0	ND	76	60-135	2	25	
Methyl-tert-butyl Ether (MTBE)	27.0	1.0	ug/l	25.0	1.79	101	55-145	0.3	25	
tert-Amyl Methyl Ether (TAME)	23.4	1.0	ug/l	25.0	ND	94	60-140	0.9	30	
tert-Butanol (TBA)	132	10	ug/l	125	ND	106	65-140	6	25	
Surrogate: 4-Bromofluorobenzene	*25.1*		*ug/l*	*25.0*		*100*	*80-120*			
Surrogate: Dibromofluoromethane	*27.2*		*ug/l*	*25.0*		*109*	*80-120*			
Surrogate: Toluene-d8	*26.8*		*ug/l*	*25.0*		*107*	*80-120*			

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DATA QUALIFIERS AND DEFINITIONS

ID Due to the low levels of analyte found in the sample, the analyte was qualitatively identified based on the compound's retention time and the presence of a single mass ion.

MNR1 There was no MS/MSD analyzed with this batch due to insufficient sample volume. See Blank Spike/Blank Spike Duplicate.

ND Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.

RPD Relative Percent Difference

ADDITIONAL COMMENTS

For 8260 analyses:

Due to the high water solubility of alcohols and ketones, the calibration criteria for these compounds is <30% RSD. The average % RSD of all compounds in the calibration is 15%, in accordance with EPA methods.

For Volatile Fuel Hydrocarbons (C4-C12):

Volatile Fuel Hydrocarbons (C4-C12) are quantitated against a gasoline standard. Quantitation begins immediately before TBA-d9.

For Extractable Fuel Hydrocarbons (EFH, DRO, ORO) :

Unless otherwise noted, Extractable Fuel Hydrocarbons (EFH, DRO, ORO) are quantitated against a Diesel Fuel Standard.

TestAmerica Irvine

Philip Sanelle
Project Manager

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

17461 Derian Avenue. Suite 100, Irvine, CA 92614 (949) 261-1022 Fax:(949) 260-3297

Blaine Tech San Jose/CRA Shell
1680 Rogers Avenue
San Jose, CA 95112-1105
Attention: Lorin King

Project ID: 4895 Hacienda Dr., Dublin, CA

Report Number: IUE2035

Sampled: 05/16/11
Received: 05/18/11

Certification Summary

TestAmerica Irvine

Method	Matrix	Nelac	California
EPA 8015B	Water	X	X
EPA 8260B	Water	X	X
TPH by GC/MS	Water	X	X

Nevada and NELAP provide analyte specific accreditations. Analyte specific information for TestAmerica may be obtained by contacting the laboratory or visiting our website at www.testamericainc.com

TestAmerica Irvine

Philip Sanelle
Project Manager

Shell Oil Products Chain Of Custody Record IUE2035

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

Please Check Appropriate Box:
☐ ENV. SERVICES ☐ MOTIVA RETAIL ☐ SHELL RETAIL
☐ MOTIVA SD&CM ☑ 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

PO #: 4 0 - 4 0 3 4 9 7 3

SAP #:

DATE: 5/16/11
PAGE: 1 of 1

SAMPLING COMPANY: Blaine Tech Services
LOG CODE: BTSS
ADDRESS: 1680 Rogers Avenue, San Jose, CA
PROJECT CONTACT (Hardcopy or PDF Report to): Lorin King
TELEPHONE: 310-995-4455 x 108
FAX: 310-637-5802
E-MAIL: lking@blainetech.com

SITE ADDRESS: Street and City: 4895 Hacienda Dr., Dublin
State: CA
GLOBAL ID NO.: T10000000423
EDF DELIVERABLE TO (Name, Company, Office Location): Brenda Carter, CRA, Emeryville
PHONE NO.: 510-420-3343
E-MAIL: shelledf@craworld.com
CONSULTANT PROJECT NO.: 110516-PC2
SAMPLER NAME(S) (Print): P. Larnish
LAB USE ONLY

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

☐ LA - RWQCB REPORT FORMAT ☐ UST AGENCY:

SPECIAL INSTRUCTIONS OR NOTES :

Email invoice and copy of final report to Shell.Lab.Billing@craworld.com

Run TPH-D with Silica Gel Clean Up

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

REQUESTED ANALYSIS

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	MATRIX	HCL	HNO3	H2SO4	NONE	OTHER	NO. OF CONT.	TPH-GRO, Purgeable (8260B)	TPH-DRO, Extractable (8015M)	TPHg (8015M)	BTEX (5260B)	BTEX + MTBE (8260B)	BTEX + MTBE + TBA (8260B)	BTEX + 5 OXYs (MTBE, TBA, DIPE, TAME, ETBE) 8260B	Full VOC list (8260B)	Single Compound: ___ (8260B)	1,2-DCA (8260B)	EDB (8260B)	Ethanol (8260B)	Methanol (8015M)	Container PID Readings or Laboratory Notes
	MW-1	5/16/11	1330	W	X			X		5	X	X					X							
	MW-2	↓	1430	↓	X			X		5	X	X					X							
	MW-3	↓	1458	↓	X			X		5	X	X					X							
	MW-4	↓	1350	↓	X			X		5	X	X					X							
	MW-5	↓	1522	↓	X			X		5	X	X					X							
	MW-6	↓	1410	↓	X			X		5	X	X					X							

TEMPERATURE ON RECEIPT C°

1.1/1.5 5/21/11 [initials]

Relinquished by: (Signature)	Received by: (Signature)	Date	Time
[signature]	[signature] (SC)	5/16/11	1706
[signature] (Sample Custodian)	[signature] (TASF)	5/17/11	1000
[signature]		05/17/11	1040

05/2/06 Revision