CONESTOGA-ROVERS & ASSOCIATES CONESTOGA-ROVERS & ASSOCIATES CONESTOGA-ROVERS & ASSOCIATES CONESTOGA-ROVERS & ASSOCIATES CONESTOGA-ROVERS Emeryville, California 94608 Telephone: (510) 420-0700 www.CRAworld.com CRAWORL.com

				· · · · · · · · · · · · · · · · · · ·
DATE: _	May 2,	2013	REFERENCE NO.:	240467
-			PROJECT NAME:	1601 Webster Street, Alameda
То:	Keith N	lowell		
_	Alamed	da County Environmental H	ealth	RECEIVED
_	1131 Ha	arbor Bay Parkway, Suite 25	0	By Alameda County Environmental Health at 11:01 am, May 06, 201:
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1		Groundwater Monitoring	Report – First Qua	rter 2013
	quested our Use	For	Review and Comme	ent
COMMEN If you have (510) 420-3	e any qu	restions regarding the conte	nts of this docume	nt, please call Peter Schaefer at
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Completed		Peter Schaefer	Signed:	fifer Schal-
Filing: C	orrespo	ndence 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.1.brown@shell.com

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

Re: Shell-branded Service Station 1601 Webster Street Alameda, California SAP Code 135032 Incident No. 97564701 ACEH Case No. RO0002745

Dear Mr. Nowell:

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 – FIRST QUARTER 2013

SHELL-BRANDED SERVICE STATION 1601 WEBSTER STREET ALAMEDA, CALIFORNIA

SAP CODE	135032
INCIDENT NO.	97564701
AGENCY NO.	RO0002745

Prepared by: Conestoga-Rovers & Associates

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

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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 <u>SITE INFORMATION</u>

Site Address	1601 Webster Street, Alameda
Site Use	Shell-branded Service Station
Shell Project Manager	Denis Brown
CRA Project Manager	Peter Schaefer
Lead Agency and Contact	ACEH, Keith Nowell
Agency Case No.	RO0002745
Shell SAP Code	135032
Shell Incident No.	97564701

Date of most recent agency correspondence was April 16, 2013.

2.0 SITE ACTIVITIES, FINDINGS, AND DISCUSSION

2.1 <u>CURRENT QUARTER'S ACTIVITIES</u>

Blaine Tech Services, Inc. (Blaine) gauged and sampled the wells according to the established monitoring program for this site. Blaine coordinated groundwater sampling with the adjacent former 76 Station No. 0834 located at 1629 Webster Street, Alameda.

CRA prepared a vicinity map (Figure 1), a groundwater contour and chemical concentration map (Figure 2) including data from both sites, 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. The data table for the former 76 Station is included in Appendix C.

CRA's November 14, 2012 *Site Conceptual Model and Closure Request* reviewed site data and concluded that the site meets the closure criteria specified in California State Water

CONESTOGA-ROVERS & ASSOCIATES

1

Resources Control Board's (SWRCB's) *Low-Threat Underground Storage Tank Case Closure Policy.* Alameda County Environmental Health's April 16, 2013 letter stated that they are recommending the case for closure.

Variable

2.2 CURRENT QUARTER'S FINDINGS

Groundwater Flow Direction

Northerly to northeasterly

Hydraulic Gradient

Depth to Water

5.35 to 7.10 feet below top of well casing

2.3 <u>PROPOSED ACTIVITIES</u>

CRA recommends suspending the groundwater monitoring program pending case closure. No additional groundwater monitoring events are scheduled.

2.4 **DISCUSSION**

Shell and Union Oil Company have filed a claim with the SWRCB to combine investigation, remediation, and monitoring activities for the subject site and the adjacent former 76 Station No. 0834 located at 1629 Webster Street, Alameda with the Underground Storage Tank Cleanup Fund Commingled Plume Account Program. The claim is under review by the SWRCB. Upon receiving case closure for the subject site, Shell will notify the SWRCB and withdraw the comingled plume claim.

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

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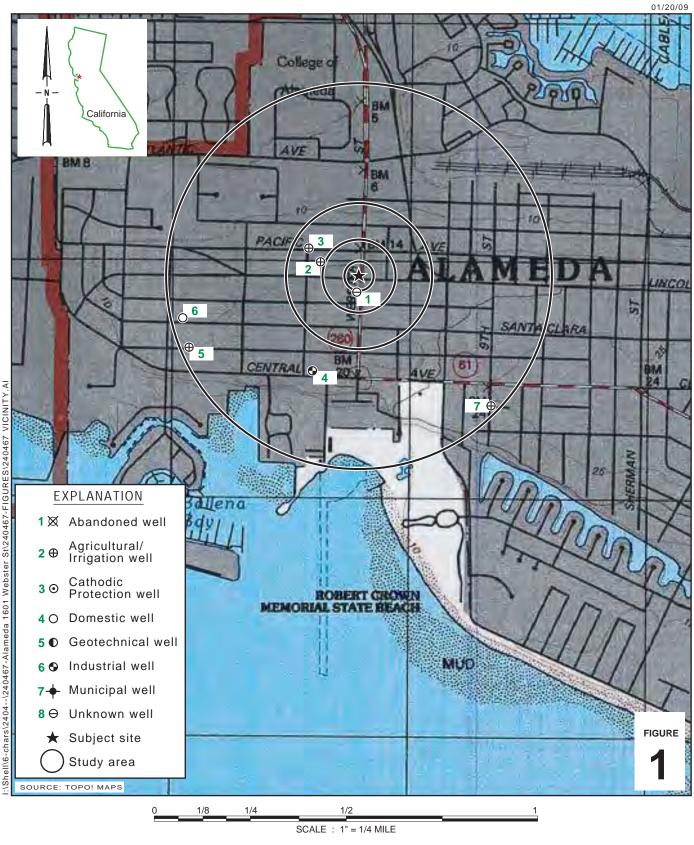
Peter Schaefer, CHG, CEG

Conl Anney X

Aubrey K. Cool, PG



FIGURES

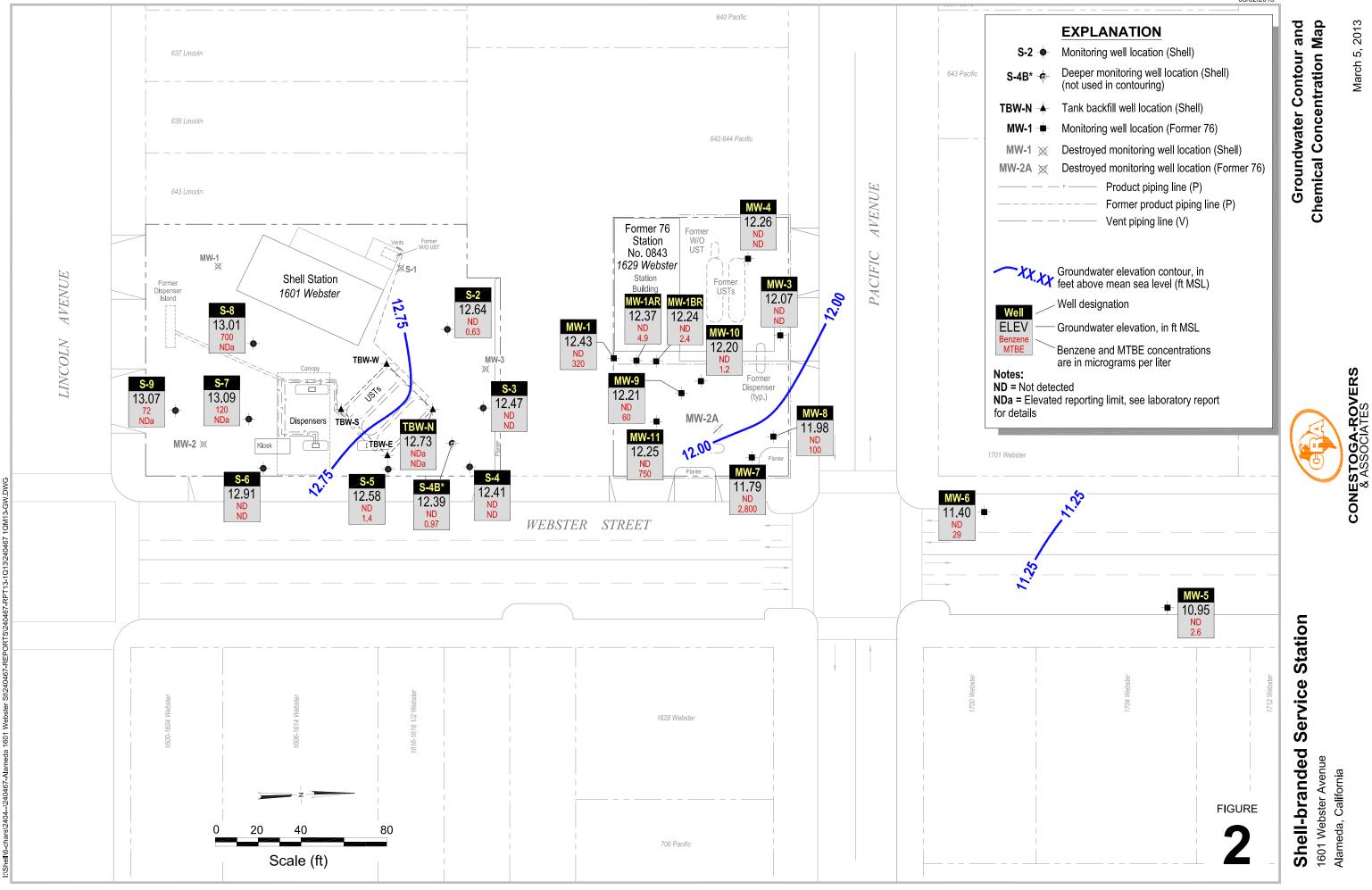


Shell-branded Service Station

1601 Webster Street Alameda, California



Vicinity Map



GROUNDWATER DATA SHELL-BRANDED SERVICE STATION 1601 WEBSTER STREET, ALAMEDA, CALIFORNIA

Well ID	Date	TPHg	В	Т	E	X	MTBE	TBA	DIPE	ETBE	TAME	1,2 - DCA	EDB	Ethanol	TOC	Depth to Water	SPH Thickness	GW Elevation
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(ft MSL)	(ft TOC)	(ft)	(ft MSL)
S-2	11/14/2005					¹									19.73	7.60		12.13
S-2	11/22/2005	996	0.630	0.500	0.500	3.10	406	18.0	< 0.500	< 0.500	0.570				19.73	7.70		12.03
S-2	02/24/2006	<50 b	< 0.50	< 0.50	< 0.50	< 0.50	2.0	<5.0	< 0.50	< 0.50	<0.50	·			19.73	6.29		13.44
S-2	05/30/2006	<50.0	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500	<10.0	< 0.500	< 0.500	< 0.500				19.73	6.14		13.59
S-2	08/30/2006	420	< 0.500	< 0.500	< 0.500	< 0.500	4.42	<10.0	< 0.500	< 0.500	< 0.500				19.73	7.18		12.55
S-2	11/22/2006	110	< 0.50	< 0.50	< 0.50	<1.0	62	<5.0	<2.0	<2.0	<2.0			'	19.73	7.55	·	12.18
S-2	02/23/2007	. 140	< 0.50	< 0.50	< 0.50	<1.0	110	<5.0	<2.0	<2.0	<2.0		·		19.73	6.77		12.96
S-2	05/18/2007	<50 h	< 0.50	<1.0	<1.0	<1.0	18	<10	<2.0	<2.0	<2.0				19.73	7.02		12.71
S-2	08/10/2007	<50 h	< 0.50	<1.0	<1.0	<1.0	40	<10	<2.0	<2.0	<2.0				19.73	7.65		12.08
S-2	11/09/2007	130 h,i	< 0.50	<1.0	<1.0	<1.0	190	<10	<2.0	<2.0	<2.0	 `			19.73	7.87		11.86
S-2	02/08/2008	83 h,i	<1.0	<2.0	<2.0	<2.0	180	<20	<4.0	<4.0	<4.0				19.73	6.52		13.21
S-2	05/16/2008	<50	< 0.50	<1.0	<1.0	<1.0	<1.0	<10	<2.0	<2.0	<2.0			'	19.73	7.30	· ·	12.43
S-2	08/15/2008	<50	< 0.50	<1.0	<1.0	<1.0	7.1	<10	<2.0	<2.0	<2.0				19.73	8.38		11.35
S-2	11/26/2008	<50	< 0.50	<1.0	<1.0	<1.0	32	<10	<2.0	<2.0	<2.0				19.73	9.13		10.60
S-2	02/27/2009	90	< 0.50	<1.0	<1.0	<1.0	85	<10	<2.0	<2.0	<2.0		~~~		19.73	7.05		12.68
S-2	05/28/2009	<50	< 0.50	<1.0	<1.0	<1.0	8.0	<10	<2.0	<2.0	<2.0				19.73	6.93		12.80
S-2	09/14/2009	<50	< 0.50	<1.0	<1.0	<1.0	17	<10	<2.0	<2.0	<2.0	·			19.73	8.20		11.53
S-2	02/05/2010	68	< 0.50	<1.0	<1.0	<1.0	52	<10	<2.0	<2.0	<2.0				19.73	7.12		12.61
S-2	08/03/2010	<50	< 0.50	<1.0	<1.0	<1.0	1.7	<10	<2.0	<2.0	<2.0				19.73	7.59		12.14
S-2	02/14/2011	<50	2.6	3.5	1.2	5.7	<1.0	<10	<1.0	<1.0	<1.0	[`]			19.73	7.16		12.57
S-2	08/04/2011	<50	< 0.50	< 0.50	< 0.50	<1.0	<1.0	<10	<1.0	<1.0	<1.0				19.73	7.20	·	12.53
S-2	02/02/2012	<50	< 0.50	< 0.50	< 0.50	<1.0	3.8	<10	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		19.73	8.00		11.73
S-2	08/13/2012	<50	< 0.50	< 0.50	< 0.50	<1.0	1.1	<10							19.73	7.85	·	11.88
S-2	03/05/2013	<50	<0.50	<0.50	<0.50	<1.0	0.63	<10							19.73	7.09		12.64
S-3	11/14/2005	·													19.14	7.01		12.13
S-3	11/22/2005	3,900	< 0.500	< 0.500	< 0.500	0.900	3,730	26.0	< 0.500	< 0.500	3.44				19.14	7.15	·	11.99
S-3	02/24/2006	580 b	< 0.50	< 0.50	< 0.50	< 0.50	.360	< 5.0	< 0.50	< 0.50	< 0.50				19.14	5.95		13.19
S-3	05/30/2006	<50.0	< 0.500	< 0.500	<0:500	0.510	52.2	<10.0	< 0.500	< 0.500	< 0.500	·			19.14	5.85	·	13.19
S-3	08/30/2006	2,910	< 0.500	<0.500	<0.500	< 0.500	882	<10.0	< 0.500	< 0.500	< 0.500			·	19.14	6.71	·	12.43
S-3	11/22/2006	240	< 0.50	< 0.50	<0.500	<1.0	150	30	<2.0	<2.0	<2.0				19.14	7.05		12.49
S-3	02/23/2007	78	< 0.50	< 0.50	< 0.50	<1.0	78	5.4	<2.0	<2.0	<2.0				19.14	6.30		12.84
S-3	05/18/2007	120 h,i	< 0.50	<0.50 <1.0	<0.50 <1.0	<1.0 <1.0	150	73	<2.0 <2.0	<2.0 <2.0	<2.0				19.14	6.58		12.54
S-3	08/10/2007	<50 h	<0.50 <1.0	<2.0	<2.0	<1.0 <2.0	200	21	<2.0 <4.0	<2.0 <4.0	<4.0				19.14	0.38 7.09		12.05
S-3	11/09/2007	<50 h 69 h,i	<0.50	<2.0 <1.0	<2.0 <1.0	<2.0 <1.0	100	<10	< <u>4.0</u>	< <u>4</u> .0	< <u>4.0</u>				19.14 19.14	7.09	'	12.05
S-3	02/08/2008	<50 h	<0.50	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	8.5	<10	<2.0 <2.0	<2.0 <2.0	<2.0				19.14 19.14	6.06		13.08
S-3	05/16/2008	<50 h	< 0.50	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	100	<10	<2.0 <2.0	<2.0	<2.0				19.14 19.14	6.84		12.30
5-3 S-3	08/15/2008	<50	<0.50 <0.50	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	9.0	<10	<2.0 <2.0	<2.0	<2.0				19.14 19.14	7.83		12.30 11.31
3-3	00/10/2000	~30	~0.00	~1.0	~1. 0	×1.0	9.0	~10	~2.0	~2.0	~2.0				17.14	1.00		11.51

GROUNDWATER DATA SHELL-BRANDED SERVICE STATION 1601 WEBSTER STREET, ALAMEDA, CALIFORNIA

												1,2 -				Depth to	SPH	GW
Well ID	Date	TPHg	В	Т	Ε	X	MTBE	TBA	DIPE	ETBE	TAME	DCA	EDB .	Ethanol	TOC	Water	Thickness	Elevation
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(ft MSL)	(ft TOC)	(ft)	(ft MSL)
S-3	11/26/2008	<50	0.53	<1.0	<1.0	1.5	12	<10	<2.0	<2.0	<2.0				19.14	8.70		10.44
S-3	02/27/2009	<50	< 0.50	<1.0	<1.0	<1.0	3.2	<10	<2.0	<2.0	<2.0				19.14	6.97		12.17
S-3	05/28/2009	<50	< 0.50	<1.0	<1.0	<1.0	<1.0	<10	<2.0	<2.0	<2.0				19.14	6.41		12.73
S-3	09/14/2009	<50	< 0.50	<1.0	<1.0	<1.0	6.1	<10	<2.0	<2.0	<2.0			~~~	19.14	7.60		11.54
S-3	02/05/2010	<50	< 0.50	<1.0	<1.0	<1.0	1.8	<10	<2.0	<2.0	<2.0				19.14	6.63		12.51
S-3	08/03/2010	<50	< 0.50	<1.0	<1.0	<1.0	5.4	<10	<2.0	<2.0	<2.0				19.14	7.05		12.09
S-3	02/14/2011	<50	1.7	2.6	0.95	4.6	<1.0	<10	<1.0	<1.0	<1.0				19.14	6.71		12.43
S-3	08/04/2011	<50	< 0.50	< 0.50	< 0.50	<1.0	<1.0	<10	<1.0	<1.0	<1.0				19.14	6.75		12.39
S-3	02/02/2012	<50	< 0.50	< 0.50	< 0.50	<1.0	< 0.50	<10	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		19.14	7.53		11.61
S-3	08/13/2012	<50	< 0.50	< 0.50	< 0.50	<1.0	0.51	<10							19.14	7.35		11.79
S-3	03/05/2013	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<10							19.14	6.67		12.47
S-4	11/14/2005														18.16	6.00		12.16
S-4	11/22/2005	4,570	< 0.500	< 0.500	< 0.500	0.660	3,450	26.0	< 0.500	< 0.500	3.57				18.16	6.10		12.06
S-4	02/24/2006	2,200 b	< 0.50	< 0.50	< 0.50	< 0.50	1,400	13 с	< 0.50	< 0.50	1.4				18.16	5.09		13.07
S-4	05/30/2006	1,100	< 0.500	< 0.500	< 0.500	< 0.500	1,060	87.5	< 0.500	< 0.500	1.04				18.16	5.00		13.16
S-4	08/30/2006	3,170	< 0.500	< 0.500	< 0.500	< 0.500	1,000	120	< 0.500	< 0.500	0.850				18.16	5.81		12.35
S-4	11/22/2006	520	< 0.50	< 0.50	< 0.50	<1.0	480	5.2	<2.0	<2.0	<2.0				18.16	5.93		12.23
S-4	02/23/2007	180	< 0.50	< 0.50	< 0.50	<1.0	130	9.6	<2.0	<2.0	<2.0				18.16	5.40		12.76
S-4	05/18/2007	220 h,i	<2.5	<5.0	<5.0	2.5 j	420	<50	<10	<10	<10				18.16	5.62		12.54
S-4	08/10/2007	98 h,i	<2.5	<5.0	<5.0	<5.0	540	29 j	<10	<10	<10				18.16	6.00		12.16
S-4	11/09/2007	190 h,i	<2.5	<5.0	<5.0	<5.0	350	<50	<10	<10	<10				18.16	6.20		11.96
S-4	02/08/2008	<50 h	< 0.50	<1.0	<1.0	<1.0	13	<10	<2.0	<2.0	<2.0				18.16	5.47		12.69
S-4	05/16/2008	87	< 0.50	<1.0	<1.0	<1.0	120	<10	<2.0	<2.0	<2.0				18.16	6.00		12.16
S-4	08/15/2008	<50	< 0.50	<1.0	<1.0	<1.0	42	<10	<2.0	<2.0	<2.0				18.16	6.85		11.31
S-4	11/26/2008	140	<0.50	<1.0	<1.0	<1.0	140	<10	<2.0	<2.0	<2.0				18.16	7.62		10.54
S-4	02/27/2009	56	< 0.50	<1.0	<1.0	<1.0	43	<10	<2.0	<2.0	<2.0				18.16	5.35		12.81
S-4	05/28/2009	<50	< 0.50	<1.0	<1.0	<1.0	12	<10	<2.0	<2.0	<2.0				18.16	5.40		12.76
S-4	09/14/2009	<50	<0.50	<1.0	<1.0	<1.0	6.7	<10	<2.0	<2.0	<2.0				18.16	6.55		11.61
S-4	02/05/2010	<50	< 0.50	<1.0	<1.0	<1.0	4.3	<10	<2.0	<2.0	<2.0				18.16	5.62		12.54
S-4	08/03/2010	<50	< 0.50	<1.0	<1.0	<1.0	10	<10	<2.0	<2.0	<2.0				18.16	6.09		12.07
S-4	02/14/2011	<50	1.3	2.2	0.91	4.4	1.6	<10	<1.0	<1.0	<1.0				18.16	5.80		12.36
S-4	08/04/2011	<50	< 0.50	< 0.50	< 0.50	<1.0	<1.0	<10	<1.0	<1.0	<1.0				18.16	5.79		12.37
S-4	02/02/2012	<50	< 0.50	< 0.50	< 0.50	<1.0	< 0.50	<10	< 0.50	< 0.50	< 0.50	<0.50	< 0.50		18.16	6.56		11.60
S-4	08/13/2012	<50	< 0.50	< 0.50	< 0.50	<1.0	0.68	<10	< 0.50	<0.50	< 0.50				18.16	6.35		11.81
S-4	03/05/2013	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<10					 -		18.16	5.75		12.41
S-4B	08/21/2006			·*											18.78	6.14		12.64

GROUNDWATER DATA SHELL-BRANDED SERVICE STATION 1601 WEBSTER STREET, ALAMEDA, CALIFORNIA

							,	•				1,2-				Depth to	SPH	GW
Well ID	Date	TPHg	B	Т	Ε	X	MTBE	TBA	DIPE	ETBE	TAME	DCA	EDB	Ethanol	тос	Water		
	Duit	(μg/L)	(μg/L)	(µg/L)	(μg/L)	(μg/L)	(μg/L)	(μg/L)	(μg/L)	(μg/L)	$(\mu g/L)$	(μg/L)	(μg/L)	(μg/L)	(ft MSL)		(ft)	(ft MSL)
		(48/2)	(48/2)	(48/2)	(<i>µ</i> ,y, <i>_</i>)	(48/2)	(48/2)	(µg L)	(µg/1)	(µg/12)	(µg/ L)	(µg/12)	(µz/ L)	(µz/L)	U ¹ (1010L)	<i>() (</i> ()()()	<i>(</i>) <i>(</i>)	yt mol)
S-4B	08/30/2006	3,630	< 0.500	< 0.500	5.32	< 0.500	1,130	643	< 0.500	< 0.500	1.47				18.78	6.32		12.46
S-4B	11/22/2006	620	< 0.50	< 0.50	0.66	<1.0	580	680	<2.0	<2.0	<2.0			·	18.78	6.46		12.32
S-4B	02/23/2007	230	<1.0	<1.0	<1.0	<2.0	190	450	<4.0	<4.0	<4.0	·			18.78	6.64		12.14
S-4B	05/18/2007	200 h	< 0.50	<1.0	<1.0	<1.0	130	360	<2.0	<2.0	<2.0				18.78	6.19		12.59
S-4B	08/10/2007	150 h	0.47 j	<1.0	<1.0	<1.0	67	230	<2.0	<2.0	<2.0				18.78	6.48		12.30
S-4B	11/09/2007	<50 h	<0.50	<1.0	<1.0	<1.0	32	67	<2.0	<2.0	<2.0				18.78	6.59	, 	12.19
S-4B	02/08/2008	<50 h	< 0.50	<1.0	<1.0	<1.0	5.3	<10	<2.0	<2.0	<2.0				18.78	6.12		12.66
S-4B	05/16/2008	<50	< 0.50	<1.0	<1.0	<1.0	2.2	15	<2.0	<2.0	<2.0				18.78	6.45		12.33
S-4B	08/15/2008	<50	< 0.50	<1.0	<1.0	<1.0	1.4	<10	<2.0	<2.0	<2.0				18.78	6.90		11.88
S-4B	11/26/2008	<50	< 0.50	<1.0	<1.0	<1.0	2.5	<10	<2.0	<2.0	<2.0				18.78	8.19		10.59
S-4B	02/27/2009	<50	<0.50	<1.0	<1.0	<1.0	1.4	<10	<2.0	<2.0	<2.0		-		18.78	6.03		12.75
S-4B	05/28/2009	<50	< 0.50	<1.0	<1.0	<1.0	2.0	<10	<2.0	<2.0	<2.0				18.78	6.01		12.77
S-4B	09/14/2009	<50	< 0.50	<1.0	<1.0	<1.0	3.7	<10	<2.0	<2.0	<2.0				18.78	6.90	·	11.88
S-4B	02/05/2010	<50	< 0.50	<1.0	<1.0	<1.0	2.0	<10	<2.0	<2.0	<2.0				18.78	7.23		11.55
S-4B	08/03/2010	<50	< 0.50	<1.0	<1.0	<1.0	1.2	25	<2.0	<2.0	<2.0				18.78	6.64		12.14
S-4B	02/14/2011	<50	1.3	2.1	0.82	3.9	<1.0	<10	<1.0	<1.0	<1.0				18.78	6.70		12.08
S-4B	08/04/2011	<50	< 0.50	< 0.50	< 0.50	<1.0	1.1	22	<1.0	<1.0	<1.0				18.78	7.13		11.65
S-4B	02/02/2012	<50	< 0.50	< 0.50	< 0.50	<1.0	1.1	<10	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		18.78	6.57		12.21
S-4B	08/13/2012	<50	< 0.50	< 0.50	< 0.50	<1.0	0.95	<10							18.78	7.83		10.95
S-4B	03/05/2013	<50	< 0.50	<0.50	<0.50	<1.0	0.97	<10		`					18.78	6.39		12.39
-	1																	
S-5	11/14/2005														18.68	6.33		12.35
S-5	11/22/2005	1,010	0.900	< 0.500	1.79	4.91	302	397	< 0.500	< 0.500	< 0.500				18.68	6.44		12.24
S-5	02/24/2006	<50 b	< 0.50	< 0.50	< 0.50	< 0.50	19	<5.0	< 0.50	< 0.50	< 0.50				18.68	5.44		13.24
S-5	05/30/2006	2,000	4.13	0.670	< 0.500	3.28	143	<10.0	< 0.500	< 0.500	< 0.500				18.68	5.33		13.35
S-5	08/30/2006	1,380	< 0.500	< 0.500	1.43	< 0.500	211	106	< 0.500	< 0.500	< 0.500				18.68	6.16		12.52
S-5	11/22/2006	82	< 0.50	< 0.50	< 0.50	<1.0	28	13	<2.0	<2.0	<2.0				18.68	6.28		12.40
S-5	02/23/2007	<50	< 0.50	< 0.50	< 0.50	<1.0	1.2	<5.0	<2.0	<2.0	<2.0				18.68	5.68	'	13.00
S-5	05/18/2007	<50 h,i	< 0.50	<1.0	<1.0	<1.0	2.6	<10	<2.0	<2.0	<2.0				18.68	5.91		12.77
S-5	08/10/2007	<50 h	< 0.50	<1.0	<1.0	<1.0	1.0	<10	<2.0	<2.0	<2.0				18.68	6.36		12.32
S-5	11/09/2007	<50 h	< 0.50	<1.0	<1.0	<1.0	<10	<10	<2.0	<2.0	<2.0		·		18.68	6.47		12.21
S-5	02/08/2008	<50 h	< 0.50	<1.0	<1.0	<1.0	<1.0	<10	<2.0	<2.0	<2.0				18.68	5.52		13.16
S-5	05/16/2008	<50	< 0.50	<1.0	<1.0	<1.0	<1.0	<10	<2.0	<2.0	<2.0	· ·			18.68	6.22		12.46
S-5	08/15/2008	<50	< 0.50	<1.0	<1.0	<1.0	<1.0	<10	<2.0	<2.0	<2.0				18.68	7.26		11.42
S-5	11/26/2008	<50	< 0.50	<1.0	<1.0	<1.0	<1.0	<10	<2.0	<2.0	<2.0				18.68	8.03		10.65
S-5	02/27/2009	<50	< 0.50	<1.0	<1.0	<1.0	<1.0	<10	<2.0	<2.0	<2.0				18.68	5.83		12.85
S-5	05/28/2009	<50	< 0.50	<1.0	<1.0	<1.0	<1.0	<10	<2.0	<2.0	<2.0				18.68	5.73	·	12.95
S-5	09/14/2009	<50	< 0.50	<1.0	<1.0	<1.0	<1.0	<10	<2.0	<2.0	<2.0	·			18.68	6.95		11.73
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GROUNDWATER DATA SHELL-BRANDED SERVICE STATION 1601 WEBSTER STREET, ALAMEDA, CALIFORNIA

Well ID	Date	TPHg (µg/L)	В (µg/L)	Т (µg/L)	Е (µg/L)	Х (µg/L)	MTBE (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	1,2- DCA (µg/L)	EDB (µg/L)	Ethanol (µg/L)	TOC (ft MSL)	Depth to Water (ft TOC)	SPH Thickness (ft)	GW Elevation (ft MSL)
S-5	02/05/2010	<50	< 0.50	<1.0	<1.0	<1.0	<1.0	<10	<2.0	<2.0	<2.0				18.68	6.01		12.67
S-5	08/03/2010	<50	< 0.50	<1.0	<1.0	<1.0	<1.0	<10	<2.0	<2.0	<2.0				18.68	6.46		12.22
S-5	02/14/2011	<50	3.9	3.8	1.2	5.3	1.8	<10	<1.0	<1.0	<1.0				18.68	6.20		12.48
S-5	08/04/2011	<50	< 0.50	< 0.50	< 0.50	<1.0	1.8	<10	<1.0	<1.0	<1.0				18.68	6.15		12.53
S-5	02/02/2012	<50	< 0.50	< 0.50	< 0.50	<1.0	0.75	<10	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		18.68	6.87		11.81
S-5	08/13/2012	<50	< 0.50	< 0.50	< 0.50	<1.0	< 0.50	<10							18.68	6.70		11.98
S- 5	03/05/2013	<50	<0.50	<0.50	<0.50	<1.0	1.4	<10							18.68	6.10		12.58
S-6	11/14/2005					· .									19.32	6.36		12.96
S-6	11/22/2005	15,800	5.14	0.690	32.1	934	< 0.500	14.2	< 0.500	< 0.500	< 0.500				19.32	6.53		12.79
S-6	01/19/2006	and set gas													19.32	5.50		13.82
S-6	02/24/2006	7,900 b	4.4	<1.5	260	380	<1.5	<7.0	<1.5	<1.5	<1.5				19.32	5.76		13.56
S-6	05/30/2006	4,170	4.98	< 0.500	76.6	44.2	< 0.500	<10.0	< 0.500	< 0.500	< 0.500				19.32	5.68		13.64
· S-6	08/30/2006	16,400	10.7	< 0.500	353	292	< 0.500	<10.0	< 0.500	< 0.500	< 0.500				19.32	6.38		12.94
S-6	11/22/2006	6,900	7.7	<2.5	250	450	<2.5	<25	<10	<10	<10				19.32	6.62		12.70
S-6	02/23/2007	7,900	4.4	<2.5	400	940	<2.5	<25	<10	<10	<10				19.32	6.06		13.26
S-6	05/18/2007	2,600 h	3.1	<1.0	85	147.3	<1.0	<10	<2.0	<2.0	<2.0				19.32	6.12		13.20
S-6	08/10/2007	3,100 h	3.5	0.28 j	110	202	<1.0	<10	<2.0	<2.0	<2.0				19.32	6.60		12.72
S-6	11/09/2007	3,700 h	2.1	0.34 j	160	335	<1.0	<10	<2.0	<2.0	<2.0			·	19.32	6.80		12.52
S-6	02/08/2008	2,600 h	2.7	<1.0	.72	156.0	<1.0	<10	<2.0	<2.0	<2.0	··			19.32	6.11		13.21
S-6	05/16/2008	350	< 0.50	<1.0	8.4	5.3	<1.0	<10	<2.0	<2.0	<2.0				19.32	6.60		12.72
S-6	08/15/2008	3,600	0.99	<1.0	100	164.9	<1.0	<10	<2.0	<2.0	<2.0				19.32	7,70		11.62
S-6	11/26/2008	1,500	2.9	<1.0	13	3.1	<1.0	<10	<2.0	<2.0	<2.0				19.32	8.41		10.91
S-6	02/27/2009	2,800	4.3	<1.0	17	23	<1.0	<10	<2.0	<2.0	<2.0		[.]		19.32	6.22		13.10
S-6	05/28/2009	570	0.74	<1.0	3.1	1.3	<1.0	<10	<2.0	<2.0	<2.0				19.32	6.10		13.22
S-6	09/14/2009	440	0.55	<1.0	1.5	2.3	<1.0	<10	<2.0	<2.0	<2.0				19.32	7.43		11.89
S-6	02/05/2010	2,200	1.7	<1.0	5.2	8.3	<1.0	<10	<2.0	<2.0	<2.0				19.32	6.34		12.98
S-6	08/03/2010	340	< 0.50	<1.0	<1.0	1.0	<1.0	<10	<2.0	<2.0	<2.0				19.32	6.85		12.47
S-6	02/14/2011	590	1.0	1.0	1.4	3.7	<1.0	<10	<1.0	<1.0	<1.0				19.32	6.50		12.82
S-6	08/04/2011	820	1.2	< 0.50	1.7	1.2	<1.0	<10	<1.0	<1.0	<1.0				19.32	6.52		12.80
- S-6	02/02/2012	1,500	1.4	< 0.50	2.4	1.4	< 0.50	<10	< 0.50	< 0.50	<0.50	< 0.50	< 0.50		19.32	7.30		12.02
S-6	08/13/2012	320	< 0.50	< 0.50	< 0.50	<1.0	< 0.50	<10							19.32	7.16		12.16
S-6	03/05/2013	530	<0.50	<0.50	<0.50	<1.0	<0.50	<10							19.32	6.41		12.91
S-7	11/14/2005													, . 	19.44	6.76		12.68
S-7	11/22/2005	51,100	2,680	2,980	969	6,360	1.49	53.3	< 0.500	< 0.500	< 0.500		*		19.44	6.88		12.56
S-7	02/24/2006	22,000 b/25,000 d	1,700	1,200	1,200	2,800	<2.5	58	<2.5	<2.5	<2.5				19.44	5.73		13.71
S-7	05/30/2006	35,600	1,720	641	1,600	3,630	2.83	<10.0	< 0.500	< 0.500	< 0.500	'			19.44	5.61		13.83

GROUNDWATER DATA SHELL-BRANDED SERVICE STATION 1601 WEBSTER STREET, ALAMEDA, CALIFORNIA

			•										1,2-				Depth to	SPH	GW	
We	ell ID	Date	TPHg	В	Т	E	X	MTBE	TBA	DIPE	ETBE	TAME	DCA	EDB	Ethanol	TOC	Water			
			(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(ft MSL)	(ft TOC)	(ft)	(ft MSL)	
· .	S-7	08/30/2006	83,900	5,060	62.5	1,640	4,010	2.38	43.4	< 0.500	<0.500	< 0.500				19.44	6.43		13.01	
	S-7	11/22/2006	13,000	4,300	27	710	1,900	<2.5	54	<10	<10	<10				19.44	6.68		12.76	
	S-7	02/23/2007	15,000	2,000	43	1,100	3,300	<12	<120	<50	<50	<50				19.44	5.82		13.62	
9	S-7	05/18/2007	6,100 h	3,900	22 j	520	2,010	<50	<500	<100	<100	<100				19.44	6.20		13.24	
9	S-7	08/10/2007	14,000 h	4,900	19 j	670	2,046 j	<50	<500	<100	<100	<100				19.44	6.74		12.70	
9	S-7	11/09/2007	16,000 h	4,400	21 j	550	2,052	<50	<500	<100	<100	<100				19.44	6.93	'	12.51	
9	S-7	02/08/2008	2,400 h	160	<2.0	70	160	<2.0	<20	<4.0	<4.0	<4.0				19.44	6.23	·'	13.21	
9	S-7	05/16/2008	6,200	1,200	21	320	736.9	<2.0	<20	<4.0	<4.0	<4.0				19.44	6.62	`	12.82	
9	S-7	08/15/2008	15,000	4,500	19	450	1,300	<10	<100	<20	<20	<20				19.44	7.81		11.63	
	S-7	11/26/2008	9,300	3,200	<25	77	250	<25	<250	<50	<50	<50				19.44	8.53		10.91	
9	S-7	02/27/2009	3,900	900	<25	49	160	<25	<250	<50	<50	<50				19.44	6.27		13.17	
9	S-7	05/28/2009	7,100	1,200	<10	81	600	<10	<100	<20	<20	<20				19.44	6.18	,	13.26	
	S-7	09/14/2009	11,000	4,000	19	73	66	<10	<100	<20	<20	<20				19.44	7.58		11.86	
e e	S-7	02/05/2010	4,700	1,200	<10	33	17	<10	<100	<20	<20	<20				19.44	6.36		13.08	
	S-7	08/03/2010	7,600	2,600	14	15	10	<10	<100	<20	<20	<20				19.44	6.90		12.54	
	S-7	02/14/2011	2,200	800	<10	<10	<20	<20	<200	<20	<20	<20				19.44	6.53		12.91	
	S-7	08/04/2011	4,600	1,200	16	<10	<20	<20	<200	<20	<20	<20				19.44	6.53		12.91	
	S-7	02/02/2012	1,600	93	4.7	4.0	7.4	<1.0	<20	<1.0	<1.0	<1.0	<1.0	<1.0		19.44	7.39		12.05	
c.	S-7	08/13/2012	3,000	220	14	8.9	15	<2.0	<40	<2.0	<2.0	<2.0				19.44	7.14		12.30	
	S-7	03/05/2013	2,000	120	6.2	6.1	10	<1.0	<20					·		19.44	6.35		13.09	
	S-8	08/21/2006														20.11	7.02		13.09	
	S-8	08/30/2006	90,600	5,150	28.2	3,230	4,450	4.30	<10.0	< 0.500	< 0.500	< 0.500				20.11	7.19		12.92	
	S-8	11/22/2006	41,000	4,900	58	3,300	7,200	2.6	<25	<10	<10	<10				20.11	7.48		12.63	
	S-8	02/23/2007	28,000	2,900	28	2,900	4,900	<25	<250	<100	<100	<100				20.11	6.73		13.38	
	S-8	05/18/2007	24,000 h	4,400	33 j	3,800	4,470	<50	<500	<100	<100	<100				20.11	6.98		13.13	
	5-8	08/10/2007	22,000 h	5,000	30 j	3,100	3,660	<50	<500	<100	<100 <100	<100				20.11 20.11	7.57 7.80		12.54 12.31	
	5-8	11/09/2007	22,000 h	4,600 5,000	24 j ∠50	3,000	2,770	<50	<500 <500	<100 <100		<100 <100							12.51	
	S-8	02/08/2008	11,000 h 20,000	5,900 1,600	<50	410	310	<50 <20	<500 <200	<100 <40	<100 <40	<100 <40				20.11 20.11	6.55 7.30		13.56	
	5-8 5-8	05/16/2008 08/15/2008	20,000 26,000		32 20	2,300 4,900	2,136 2,432	<20 <20	<200	<40 <40	<40 <40	<40 <40		·		20.11 20.11	7.30 8.60		12.81	
	5-0 5-8	11/26/2008	28,000	2,400 890	20 6.6	4,900 790	302	<20 <5.0	<200	<40 <10	<40 <10	<10				20.11 20.11	9.20		10.91	
	5-8	02/27/2009	770	30	<1.0	9.9	6.0	<1.0	12	<2.0	<2.0	<2.0				20.11	9.20 7.04		13.07	
	5-8 5-8	05/28/2009	5,800	620	3.1	390	380	<1.0 <1.0	40	<2.0	<2.0 <2.0	<2.0				20.11	6.91		13.20	
	5-8 5-8	09/14/2009	7,700	1,600	<10	110	380 750	<1.0	40 <100	<2.0 <20	<2.0	<2.0				20.11	8.32		13.20 11.79	
	5-8 5-8	02/05/2010	10,000	2,000	<10 <10	150	260	<10 <10	<100	<20 <20	<20	<20				20.11	7.08	·	13.03	
	5-8	08/03/2010	12,000	2,000	<10 <20	47	.82	<20	<200	<20 <40	<40	<20 <40				20.11	7.64		13.03 12.47	
	5-8	02/14/2011	4,900	960	<10	1 / 89	78	<20	<200	<20	<20	<20				20.11	7.20		12.91	
		0-/ 11/ 2011	1,700	200	-10	07	70	-20	-200	-20	-20	-20				20,11	7.20		14.71	

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GROUNDWATER DATA SHELL-BRANDED SERVICE STATION 1601 WEBSTER STREET, ALAMEDA, CALIFORNIA

												1,2-				Depth to	SPH	GW	
Well ID	Date	TPHg	В	Т	Ε	X	MTBE	TBA	DIPE	ETBE	TAME	DCA	EDB	Ethanol	TOC	Water	Thickness		
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(ft MSL)		(ft)	(ft MSL)	
S-8	08/04/2011	7,200	830	<5.0	26	13	<10	<100	<10	<10	<10				20.11	7.24		12.87	
S-8	02/02/2012	12,000	1,400	4.0	29	9.8	<2.5	<50	<2.5	<2.5	<2.5	<2.5	<2.5		20.11	8.08		12.07	
S-8	08/13/2012	7,100	1,100	4.0 <5.0	55	21	< <u>5.0</u>	<100	<5.0	<2.5	<5.0	-2.5	~2.5		20.11 20.11	7.84		12.03	
S-8	03/05/2013	3,600	700	< 5.0	18	<10	< 5.0	<100	-0.0		<0.0				20.11 20.11	7.10		13.01	
00	00/00/2010	0,000	700	-0.0	10	-10	-0.0	100							20.11	7.10		10.01	
S-9	08/21/2006												<u> </u>		19.60	6.93		12.67	
S-9	08/30/2006	162,000	3,620	5,040	3,810	22,500	< 0.500	<10.0	< 0.500	< 0.500	< 0.500				19.60	6.52		13.08	
S-9	11/22/2006	47,000	2,100	840	3,000	12,000	<2.5	<25	<10	<10	<10				19.60	6.78		12.82	
S-9	02/23/2007	18,000	890	120	1,800	3,600	<12	<120	<50	<50	<50				19.60	6.13		13.47	
S-9	05/18/2007	22,000 h	1,300	630	2,400	7,300	<50	<500	<100	<100	<100				19.60	6.35		13.25	
S-9	08/10/2007	36,000 h	2,600	920	4,200	14,900	<50	<500	<100	<100	<100				19.60	6.86		12.74	
S-9	11/09/2007	34,000 h	2,100	320	3,700	12,000	<50	<500	<100	<100	<100				19.60	7.09		12.51	
S-9	02/08/2008	7,400 h	410	51	1,100	1,620	<10	<100	<20	<20	<20		·		19.60	6.00		13.60	
S-9	05/16/2008	19,000	910	230	1,600	4,200	<10	<100	<20	<20	<20				19.60	6.67		12.93	
S-9	08/15/2008	65,000	2,600	540	5,200	19,000	<10	<100	<20	<20	<20				19.60	7.93		11.67	
S-9	11/26/2008	18,000	910	<100	2,000	3,340	<100	<1,000	<200	<200	<200				19.60	8.60		11.00	
S-9	02/27/2009	1,000	55	2.3	100	61	<1.0	<10	<2.0	<2.0	<2.0				19.60	6.35	,	13.25	
S-9	05/28/2009	9,700	410	120	810	1,400	<10	<100	<20	<20	<20				19.60	6.22		13.38	
S-9	09/14/2009	24,000	960	120	2,200	6,500	<5.0	<50	<10	<10	<10		·		19.60	7.73		11.87	
S-9	02/05/2010	4,900	310	6.2	180	240	<5.0	<50	<10	<10	<10				19.60	6.51		13.09	
S-9	08/03/2010	17,000	940	25	500	2,800	<2.0	29	<4.0	<4.0	<4.0		,		19.60	7.02		12.58	
S-9	02/14/2011	1,500	190	3.6	11	38	<4.0	<40	<4.0	<4.0	<4.0				19.60	6.60		13.00	
S-9	08/04/2011	5,300	370	18	53	370	<5.0	<50	<5.0	<5.0	<5.0		<u> </u>		19.60	6.62		12.98	
S-9	02/02/2012	1,100	85	2.1	3.4	2.9	<1.0	<20	<1.0	<1.0	<1.0	<1.0	<1.0		19.60	7.48		12.12	
S-9	08/13/2012	4,200	370	18	48	66	<2.5	<50					'		19.60	7.27		12.33	
S-9	03/05/2013	1,800	72	2.8	4.9	6.4	<1.0	<20							19.60	6.53		13.07	
TBW-E	11/23/2004															6.31			
TBW-E	12/01/2004								air an an							7.01			
TBW-E:	12/07/2004									· ·						6.32			
TBW-E	12/15/2004		·													6.55			
TBW-E	12/23/2004															5.95			
TBW-E	12/27/2004	`														8.47			
TBW-N	11/23/2004	83,000	640	27,000	1,700	20,000	2,300	1,300	<400	<400	<400	<100	<100	<10,000		5.64			
TBW-N	12/01/2004	160,000	700	31,000	2,300	24,000	2,900	1,200	<400	<400	<400	<100	<100	<10,000		6.35		·	
TBW-N	12/07/2004	130,000	590	29,000	2,300	24,000	2,700	1,200	<400	<400	<400 <400	<100	<100	<10,000		5.65			
TBW-N	12/15/2004	120,000	420	26,000	2,000	22,000	3,300	<1,000	<400 <400	<400 <400	<400 <400	<100 <100	<100	<10,000		5.85	·		
	, 10, 2001	120,000	140	-0,000	_,000		5,000	1,000	-100	-100	-100	-100	-100	10,000	•	0.00			

GROUNDWATER DATA SHELL-BRANDED SERVICE STATION 1601 WEBSTER STREET, ALAMEDA, CALIFORNIA

												1,2 -				Depth to	SPH	GW	
Well ID	Date	TPHg	В	Т	Ε	X	MTBE	TBA	DIPE		TAME	DCA	EDB	Ethanol	TOC	Water	Thickness		
	· "	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(ft MSL)	(ft TOC)	(ft)	(ft MSL)	
TBW-N	12/23/2004	100,000	220	23,000	1,900	20,000	1,900	<1,000	<400	<400	<400	<100	<100	<10,000		5.30			
TBW-N	12/27/2004	110,000	470	26,000	2,300	22,000	1,800	<1,000	<400	<400	<400	<100	<100	<10,000		7.80			
TBW-N	01/17/2005	86,000	330	22,000	2,200	21,000	1,600	1,600	<400	<400	<400	<100	<100	<10,000		6.59			
TBW-N	02/04/2005	97,000	290	23,000	1,800	20,000	1,900	<1,000	<400	<400	<400	<100	<100	<10,000		4.50			
TBW-N	03/02/2005	94,000	360	24,000	2,000	19,000	1,200	<1,000	<400	<400	<400	<100	<100	<10,000		4.11			
TBW-N	04/12/2005	27,000	130	9,300	1,100	8,700	1,400	390	<100	<100	<20	<25	<25	<2,500	·	4.08			
TBW-N	05/13/2005	42,000	130	8,700	1,500	12,000	1,400	440	<100	<100	<100	<25	<25	<2,500		4.45			
TBW-N	06/10/2005	46,000	63	5,500	1,300	11,000	500	<250	<100	<100	<100	<25	<25	<2,500		4.97			
TBW-N	07/15/2005	48,000	88	8,400	1,300	9,500	660	310	<100	<100	<100	<25	<25	<2,500		5.18		·	
TBW-N	08/17/2005	36,000 a	85 a	8,500 a	1,200 a	11,000 a	510 a	<500 a	<200 a	<200 a	<200 a	<50 a	<50 a	<5,000 a	18.08	5.28		12.80	
TBW-N	09/15/2005	20,000	59	2,400	730	9,300	600	500	<40	<40	<40			<1,000	18.08	5.92		12.16	
TBW-N	10/17/2005	59,000	58	4,900	1,200	16,000	490	<250	<100	<100	<100	<25	<25	<2,500	18.08	5.96		12.12	
TBW-N	11/22/2005	105,000	41.3	8,750	1,550	18,300	443	248	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500	<50.0	18.08	5.82		12.26	
TBW-N	12/09/2005	65,900	43.4	5,110	1,110	13,500	493	259	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500	<50.0	18.08	5.60		12.48	
TBW-N	01/05/2006	80,100	33.8	4,910	1,620	19,400	410	<10.0	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500	<50.0	18.08	4.44		13.64	
TBW-N	02/24/2006	56,000 b/60,000 d	15	2,700	1,000	12,000	270	180	<15	<15	<15	<15	<15	<150	18.08	4.67		13.41	
TBW-N	03/08/2006	60,200	23.4	3,820	1,370	16,500	293	93.8	< 0.500	< 0.500	< 0.500	<0.500	< 0.500	<50.0	18.08	4.18		13.90	
TBW-N	04/13/2006	73,000	21.8	2,900	1,220	14,600	277	68.5	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500	<500	18.08	3.49		14.59	
TBW-N	05/30/2006	59,300	18.7	1,170	1,800	10,200	119 e	<10.0	< 0.500		< 0.500	0.860	< 0.500	<50.0	18.08	4.52		13.56	
TBW-N	06/05/2006	83,700	16.0	1,510	2,090	11,400	146 e	<10.0	< 0.500		< 0.500			<50.0	18.08	4.55	·	13.53	
TBW-N	07/19/2006	80,100	16.4	632	1,550	13,900	85.7	<10.0	< 0.500		< 0.500	< 0.500	< 0.500	<50.0	18.08	4.99	'	13.09	
TBW-N	08/30/2006	52,700	18.2	747	1,900	13,400	82.9	<100	<5.00	<5.00	<5.00	<5.00	<5.00	<500	18.08	5.47		12.61	
TBW-N	09/06/2006	77,500	21.3	1,100	1,650	11,800	116	12.4	< 0.500	< 0.500	< 0.500	< 0.500	<0.500	<50.0	18.08	5.39		12.69	
TBW-N	10/13/2006	33,000	22	1,300	1,700	27,000	160	<50	<20	<20	<20	<5.0	<5.0	<500	18.08	5.57		12.51	
TBW-N	11/22/2006	36,000	18	680	1,200	14,000	110	<50	<20	<20	<20	<5.0	<5.0	<500	18.08	5.65		12.43	
TBW-N	12/12/2006	34,000	<25	330	1,400	11,000	89	<1,000	<25	<25	<25	<25	<25	<5,000	18.08	5.34		12.74	
TBW-N	01/05/2007	26,000 g	16	450	1,400	13,000 f	96	<50	<20	<20	<20	<5.0	<5.0	<500	18.08	5.23		12.85	
TBW-N	02/23/2007	41,000	<25	400	1,500	15,000	120	<250	<100	<100	<100	<25	<25	<2,500	18.08	4.96		13.12	
TBW-N	03/08/2007	15,000	<25	320	1,300	15,000	110	<250	<100	<100	<100	<25	<25	<2,500	18.08	4.93		13.15	
TBW-N	04/06/2007	24,000 h	15	360	1,100	12,300	130	<50	<10	<10	<10	<2.5		<500	18.08	5.07		13.01	
TBW-N	05/18/2007	30,000 h	15 j	140	1,100	9,960	100	<50	<100	<100	<100	<25	<50	<5,000	18.08	5.25		12.83	
TBW-N	06/11/2007	26,000 h	15 j	160	1,300	9,150	120	<500	<100	<100	<100	<25	<50	<5,000	18.08	5.33		12.75	
TBW-N	07/03/2007	36,000 h 24,000 h	9.3 j 14	150	990 1.200	8,400 5,240	130 120	<500	<100	<100	<100	<25 <10	<50	<5,000	$\frac{18.08}{18.08}$	5.46 [.] 5.78		12.62 12.30	
TBW-N	08/10/2007	24,000 h	14	200	1,200	5,240 7,600	120	<200	<40	<40 <40	<40	<10 <10	<20 <20	<2,000	18.08 18.08	6.02		12.30	
TBW-N	09/25/2007	28,000 h	15 18	560	1,400	7,600 14 500	<20 140	160 j ∽250	<40		<40			<2,000		6.02 5.91		12.06	
TBW-N	$\frac{11}{09}$	42,000 h 36,000 h	18 <25	610 450	1,700 1,400	14,500 15 100	140 97	<250 <500	<50 <100	<50 <100	<50 <100	<12 <25	<25 <50	<2,500 <5,000	18.08 18.08	5.91 4.79	0.01	12.18	
TBW-N	02/08/2008		<25 80	450 99	1,400 970	15,100 5,130	97 130	<500 <500	<100 <100	<100 <100	<100	<25	<50	<5,000	18.08	4.79 5.50		13.29 12.58	
TBW-N	05/16/2008	26,000	00	77	970	5,150	130	~500	~100	~100	~100				10.00	5.50		12.00	

Well ID	Date	TPHg (µg/L)	B (µg/L)	Т (µg/L)	Е (µg/L)	Х (µg/L)	MTBE (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	1,2 - DCA (μg/L)	EDB (µg/L)	Ethanol (µg/L)	TOC (ft MSL)	Depth to Water (ft TOC)	SPH Thickness (ft)	GW Elevation (ft MSL)	
														(<i>F</i> -8//	J U U U U U U U U U U	00100)	y 9	U 1110 <i>L</i>)	
TBW-N	08/15/2008	24,000	<25	1,300	1,300	2,400	- 90	<500	<100	<100	<100	<25	<50	<5,000	18.08	6.59		11.49	
TBW-N	11/26/2008	24,000	<25	140	810	5,580	52	<500	<100	<100	<100	<25	<50	<5,000	18.08	7.40		10.68	
TBW-N	02/27/2009	22,000	<25	110	520	5,000	<50	<500	<100	<100	<100	<25	<50	<5,000	18.08	5.86		12.22	
TBW-N	05/28/2009	32,000	8.9	160	860	5,600	53	160	<10	<10	<10				18.08	5.50	'	12.58	
TBW-N	09/14/2009	28,000	10	110	890	4,700	60	<200	<40	<40	<40	<10	<20	<2000	18.08	6.31		11.77	
TBW-N	02/05/2010	27,000	<10	71	630	4,900	28	<200	<40	<40	<40	<10	<20	<2000	18.08	5.28		12.80	
TBW-N	08/03/2010	20,000	9.8	46	130	890	64	<100	<20	<20	<20	<5.0	<10	<1000	18.08	5.75		12.33	
TBW-N	02/14/2011	15,000	7.5	38	320	1,800	18	<10	<10	<10	<10	<5.0	<5.0	<1500	18.08	5.40		12.68	
TBW-N	08/04/2011	11,000	5.7	26	77	120	21	12	<1.0	<1.0	<1.0	< 0.50	< 0.50	<150	18.08	5.43		12.65	
TBW-N	02/02/2012	11,000	4.8	15	150	200	< 0.50	<10	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	<150	18.08	6.27	<u>`</u>	11.81	
TBW-N	08/13/2012	7,400	6.3	8.5	100	65	< 0.50	17				< 0.50	< 0.50	<150	18.08	6.20		11.88	
TBW-N	03/05/2013	12,000	<5.0	9.0	130	260	<5.0	<100				<5.0	<5.0	<1,500	18.08	5.35		12.73	
TBW-S	11/23/2004	'			·			 '						'		6.18			
TBW-S	12/01/2004															6.87	· ····		
TBW-S	12/07/2004															6.15		· ·	
TBW-S	12/15/2004					<u>_</u>										6.38			
TBW-S	12/23/2004	'														5.81			
TBW-S	12/27/2004															8.35			
TBW-W	11/23/2004															6.14			
TBW-W	12/01/2004			·												6.86	'		
TBW-W	12/07/2004			·	·											6.13			
TBW-W	12/15/2004			- <u>-</u> '												6.37			
TBW-W	12/23/2004					· '										5.79			
TBW-W	12/27/2004	· · · · · ·														8.32			
	-																		

Notes:

TPHg = Total petroleum hydrocarbons as gasoline analyzed by EPA Method 8260B unless otherwise noted.

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

1,2-DCA = 1,2-Dichloroethane analyzed by EPA Method 8260B

EDB = Ethylene dibromide analyzed by EPA Method 8260B

Ethanol analyzed by EPA Method 8260B

Well ID	Date	TPHg (µg/L)	Β (μg/L)	Т (µg/L)	Е (µg/L)	X (µg/L)	MTBE (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	1,2- DCA (µg/L)	EDB (µg/L)	Ethanol (µg/L)	TOC (ft MSL)	Depth to Water (ft TOC)	SPH Thickness (ft)	GW Elevation (ft MSL)
TOC = Top	o of casing elevation	on, in feet rela	tive to me	an sea le	evel													
SPH = Sep	arate-phase hydro	ocarbon											•					
GW = Groot																		
-	crograms per liter						·											
	etected at reportin	0																
= Not a	nalyzed or availat	ple																
a = Extract	ed out of holding	time																
	with a carbon ran								-									
	may be biased slig	0	e lab repoi	t case na	arrative.													•
	with a carbon ran		1															
	ary ion abundanc		e method	require	nents. Id	entificati	on based	l on ana	lytical jı	idgment	t.				• ·			
f = Concen	tration estimated.	Analyte exce	eded calib	pration ra	ange. Rea	analysis 1	not perfo	rmed dı	ie to hol	ding tin	ne requir	rements.				•		
g = Labora	tory Control Sam	ple and/or La	boratory C	Control S	ample D	uplicate i	recovery	was bel	ow the a	icceptan	ce limits	s. A low	bias to	sample re	sults is in	dicated.		
	ed by EPA Metho									:								
	nple chromatogra s based upon the			es not m	atch the c	chromato	graphic	pattern	of the sp	ecified a	standard	l. Quan	titation	of the unk	nown hyd	drocarbon(s) in the	
j = Analyte	was detected at a	concentratior	ı below th	e report	ing limit a	and abov	e the lab	oratory	method	detectic	on limit.	Reporte	d value	is estima	ted.			
Well TBW-	N surveyed Sente	ember 1, 2005 l	w Viroil (havez I	and Surv	eving			•									

Well TBW-N surveyed September 1, 2005 by Virgil Chavez Land Surveying Wells S-2 through S-7 surveyed on November 30, 2005 by Virgil Chavez Land Surveying Wells S-4B and S-7 through S-9 surveyed on August 17, 2006 by Virgil Chavez Land Surveying

APPENDIX A

BLAINE TECH SERVICES, INC. -FIELD NOTES

WELL GAUGING DATA Project # 130305 - 67R1 Date 03/05/2013 Client Shell Site 1601 Webster St., Alameda, CA Thickness | Volume of Survey Well Depth to of Immiscibles Point: Size Sheen / Immiscible Immiscible Removed Depth to water Depth to well TOB or Well ID Time (in.) Odor Liquid (ft.) Liquid (ft.) (ml) (ft.) bottom (ft.) CIÓC Notes 4 0905 TBW-N 10.61 5.35 4 0820 7.09 11.73 5-2 4 5-3 6900 6.67 11-69 5-4 4 0825 5.75 11.39 5-43 4 0927 6.39 19.92 4 5-5 6.10 6833 11.35 0838 4 5-6 6.41 11.45 5-7 4 0844 6.35 10.99 5-8 0854 4 7.10 11.80 5-9-1849 4 6.53 11.90 e.

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		(
* •_	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	SHEL	L WELL MO	NITORIN	NG DA	TA SHEE					
BTS #: 1	30305-	GaR 1		Site:	9750	64701					
Sampler:	GAR	Classifier and a second se	*****	Date: 03/05/2013							
Well I.D.:	TBW-1	V	AND DESCRIPTION OF A DE	Well Dia	meter:	2 3	Ŧ	68			
Total Well	Depth (TD): 10.	61	Depth to	Water	(DTW): 4	5.30	5			
Depth to Fr	ee Product	• •		Thicknes	s of F1	ree Product	(feet):			
Referenced	to:	PVC	Grade	D.O. Met	er (if i	req'd):	Y	/SI HACH			
DTW with 8	80% Recha	arge [(H	leight of Water	Column x	(0.20)	+ DTW]:	6.	40			
Purge Method:	Bailer Disposable B Positive Air I Electric Subn	Displaceme		Waterra Peristaltic tion Pump		Sampling Me	thod: Other:	Bailer Disposable Bailer Extraction Port Dedicated Tubing			
<u>3 . 4 ((</u> 1 Case Volume	Gals.) X Speci	3 fied Volum	$= \frac{10.2}{Calculated Vol$	_Gals.	ll Diameter 1" 2" 3"	r Multiplier 0.04 0.16 0.37	Well Dia 4" 6" Other	ameter <u>Multiplier</u> 0.65 1.47 radius ² * 0.163			
Time	Temp (°F)	pН	Cond. (mS o(µS)	Turbid (NTU		Gals. Remo	ved	Observations			
1050	63.4	6.77	478.7	148) !	3.5		odor			
1057	63.4	6-74	473.0	54		7.0					
1052	63,3	6.74	471.7	22		10.5	1	0721-5.37			
Did well de	water?	Yes (NB	Gallons a	ctuall	y evacuated	: /(25			
Sampling D	ate: 03/05	12013	Sampling Time	: 1100		Depth to W	vater:	5.37			
Sample I.D.	7 4			Laborator	ry: (Test America	0	ther			
Analyzed fo	r: TPH-G	BTEX	MTBE TPH-D	Oxygenates	s (5) (Other: See	COC				
EB I.D. (if a	pplicable)	•	@ Time	Duplicate		if applicabl					
Analyzed fo	Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other:										
D.O. (if req'	d): Pr	e-purge:		mg/L	Po	ost-purge:		mg/L			
O.R.P. (if re	q'd): Pr	e-purge:		mV	Po	ost-purge:		mV			

- · <u>.</u>		SHEL	L WELL MO	NITOR	ING DA	ATA SHE	ET				
BTS #:	30305-1	GRI		Site:	9756	4701					
Sampler:	GR			Date:	03/0	5/2013					
Well I.D.:	5-2			Well Diameter: 2 3 ④ 6 8							
Total Well	Depth (TD):	73	Depth to Water (DTW): 7.09							
Depth to Fr	ee Product	- a - 4		Thickness of Free Product (feet):							
Referenced	to:	PVO	Grade	D.O. M	leter (if	req'd):		YSI HACH			
DTW with	80% Recha	arge [(H	eight of Water	Colum	1 x 0.20)) + DTŴ]:	8.0	02			
Purge Method:	Bailer Disposable B Positive Air I Electric Subn	Displaceme		Waterra Peristaltic tion Pump		Sampling M	Other:	Bailer Disposable Bailer Extraction Port Dedicated Tubing			
<u>3.0</u> ((1 Case Volume	Gals.) X Speci	3 fied Volum	$= \frac{9.0}{\text{Calculated Vo}}$	_Gals. lume	Well Diamete 1" 2" 3"	<u>r Multiplier</u> 0.04 0.16 0.37	Well Di 4" 6" Other	iameter <u>Multiplier</u> 0.65 1.47 radius ² * 0.163			
Time	Temp (°F)	pH	Cond. (mS or μS)	1	oidity ΓUs)	Gals. Rem	oved	Observations			
0939	61.8	6.44	602.5	12	4	3.0					
0939		well	602.5 elewafere	d	Ø	3.2					
1220	62.8	6.77		4.	5	Grad	>				
Did well de	water?	(YES)	No	l Gallon:	s actuall	l y evacuate	d: 3	3.2			
Sampling D	·····	Contraction of the second s	Sampling Time			Depth to		10015			
Sample I.D.				Labora	tory: <	Test Americ	<u>a</u> 0	other			
Analyzed fo	or: TPH-G	BTEX	MTBE TPH-D	Oxygena	ates (5) (Other: Se	e Coc				
EB I.D. (if a	B I.D. (if applicable): <i>a</i> Duplicate I.D. (if applicable): <i>a</i>										
Analyzed for	Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other:										
D.O. (if req	D.O. (if req'd): Pre-purge: $\frac{mg}{L}$ Post-purge: $\frac{mg}{L}$										
O.R.P. (if re	eq'd): Pr	e-purge:	and a start and	mV	Р	ost-purge:		mV			

		DETE ORREJEJE									
BTS #: 130305 - GiR 1	Site: 97574701										
Sampler: GR	Date: 03/05/2013										
Well I.D.: 5-3	Well Diameter: 2 3 (4) 6 8										
Total Well Depth (TD): 11.69	Depth to Water	·(DTW): 6.	67								
Depth to Free Product:	Thickness of Fi	ree Product (fee	et):								
Referenced to: PVC Grade	D.O. Meter (if	req'd):	YSI HACH								
DTW with 80% Recharge [(Height of Water	Column x 0.20)	+DTW]: 7.0	<i>§</i> 7								
Purge Method: Bailer Waterra Sampling Method: Bailer Disposable Bailer Peristaltic Disposable Bailer Positive Air Displacement Extraction Pump Extraction Port Electric Submersible Other Other:											
	Well Diamete	-	Diameter Multiplier								
$3.3_{(Gals.)X}$ $3 = 9.9$	1"	0.04 4" 0.16 6"	0.65								
$\frac{2.2}{1 \text{ Case Volume}} (\text{Gals.}) X = \frac{2.1}{2 \text{ Calculated Volumes}}$	_Gals.	0.37 Other	· · · · · ·								
Cond.	Turbidity	· · · · · · · · · · · · · · · · · · ·									
Time Temp ($^{\circ}F$) pH (mS or μ S)	(NTUs)	Gals. Removed	Observations								
0937 63.6 6.94 593.1	15	3.5									
0937 Well dewatera	1 @	4.0									
1232 63.9 6.96 620.1	26	Grab									
Did well dewater? (Yes) No	Gallons actuall	y evacuated: 4	7.0								
Sampling Date: 03/05/2013 Sampling Tim	e: 1232	Depth to Wate	r: 6.68								
Sample I.D.: S-3	Laboratory:	Test America	Other								
Analyzed for: TPH-G BTEX MTBE TPH-D	Oxygenates (5)	Other) see Ce	×.								
EB I.D. (if applicable):											
Analyzed for: TPH-G BTEX MTBE TPH-D	nalyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other:										
D.O. (if req'd): Pre-purge:	D.O. (if req'd): Pre-purge: ^{mg} /L Post-purge: ^{mg} /L										
O.R.P. (if req'd): Pre-purge:	mV P	'ost-purge:	mV								

			-					
BTS #: 130305-GR1	Site: 9756	14701						
Sampler: GR	Date: 03/03	5/2013						
Well I.D.: S-4	Well Diameter	: 2 3 🐠	6 8					
Total Well Depth (TD): 11.39	Depth to Water	Depth to Water (DTW): 5.75						
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 Wate	er Column x 0.20)) + DTW]: 6	. 88					
Construction of the second	Waterra Peristaltic raction Pump	Sampling Method: Other:	Disposable Bailer Extraction Port Dedicated Tubing					
$\frac{3.7}{1 \text{ Case Volume}} (\text{Gals.}) \times \frac{3}{\text{Specified Volumes}} = \frac{11.1}{\text{Calculated}}$	Gals. Volume	er Multiplier Well I 0.04 4" 0.16 6" 0.37 Othe	Diameter <u>Multiplier</u> 0.65 1.47 r radius ² * 0.163					
TimeTemp ($^{\circ}F$)pHCond.TimeTemp ($^{\circ}F$)pH(mS or μ S)	Turbidity (NTUs)	Gals. Removed	Observations					
		4.0	· · · · · · · · · · · · · · · · · · ·					
0946 63.6 6.74 324.2 0946 Well demater	ed O	5.5						
1243 63.8 6.90 323.8	. 17 .	Grab						
Did well dewater? (Tes) No	Gallons actual	ly evacuated: 👙	5.5					
Sampling Date: 03/05/2013 Sampling Ti	me: 1243	Depth to Wate	r: 5. 76					
Sample I.D.: 5-4	Laboratory:	Test America	Other					
Analyzed for: TPH-G BTEX MTBE TPH-D	Oxygenates (5)	Other See	02					
EB I.D. (if applicable): @	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 F	Post-purge:	mg/L					
O.R.P. (if req'd): Pre-purge:	mV F	ost-purge:	mV					

BTS #: 130305-GR1	Site: 9 75 64701							
Sampler: GR	Date: 03/05/2013							
Well I.D.: S-4B	Well Diameter: 2 3 ④ 6 8							
Total Well Depth (TD): 1992	Depth to Water (DTW): 6.39							
Depth to Free Product:	Thickness of Free Product (feet):	Thickness of Free Product (feet):						
Referenced to: PVO Grade	D.O. Meter (if req'd): YSI HACH	PROPERTY AND						
DTW with 80% Recharge [(Height of Wa	ater Column x 0.20) + DTW]: 9.10							
and the second	Waterra Sampling Method: Bailer Peristaltic Disposable Bailer xtraction Pump Extraction Port Dedicated Tubing Other:							
$\frac{9.9}{1 \text{ Case Volume}} (\text{Gals.}) \times \frac{3}{\text{Specified Volumes}} = \frac{26}{\text{Calculated}}$	1^{n} 0.04 4^{n} 0.65 2^{n} 0.16 6^{n} 1.47 0.37 Other $radius^{2} * 0.163$							
Time Temp (°F) pH Cond. (mS or µS)	Turbidity (NTUs) Gals. Removed Observations							
		•						
0953 66.0 6.52 617.6 0954 Well dusater	ed @ 13.0							
1255 64.3 6.59 605.	1 27 Grab							
Did well dewater? (Yes) No	Gallons actually evacuated: 13.0							
Sampling Date: 03/05/ 2013 Sampling T	Time: 1255 Depth to Water: 6.49							
Sample I.D.: 5-4B	Laboratory: (Test America) Other							
Analyzed for: TPH-G BTEX MTBE TPH-	D Oxygenates (5) Other: See COC							
EB I.D. (if applicable): @	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						

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BTS #: 1303 05-GR1	Site: 9756	4701									
Sampler: GR	Date: 03/0	75/2013									
Well I.D.: 5-5	Well Diameter	Well Diameter: 2 3 ④ 6 8									
Total Well Depth (TD): 11.35	Depth to Water	Depth to Water (DTW): 6.10									
Depth to Free Product:	Thickness of F	Thickness of Free Product (feet):									
Referenced to: Grade	D.O. Meter (if	D.O. Meter (if req'd): YSI HACH									
DTW with 80% Recharge [(Height of Wa	ater Column x 0.20))+DTW]: 7	.15								
Purge Method: Bailer Disposable Bailer Positive Air Displacement E	Waterra Peristaltic Extraction Pump	Sampling Method: Other:	Bailer Disposable Bailer Extraction Port Dedicated Tubing								
$\frac{3.4}{1 \text{ Case Volume}} = \frac{10.2}{2 \text{ Calculate}}$	Gals. 3"	xr Multiplier Well J 0.04 4 ^a 0.16 6 ^a 0.37 Other	Diameter Multiplier 0.65 1.47 r radius ² * 0.163								
Time Temp (°F) pH (mS or μ S	Turbidity (NTUs)	Gals. Removed	Observations								
1003 62.8 6.86 424.	7 14	3.5									
1003 62.8 6.86 424. 1003 well dewater	ed Q	5.0									
· · · · · · · · · · · · · · · · · · ·											
1306 61.3 6.84 430.	6 33	Grab									
Did well dewater? Yes No	Gallons actuall	y evacuated:	5.0								
Sampling Date: 03/05/2013 Sampling 7	Fime: 1306	Depth to Wate	r: 6-11								
Sample I.D.: 5-5	Laboratory:	(Test America)	Other								
Analyzed for: TPH-G BTEX MTBE TPH	-D Oxygenates (5)	Other see Co	æ								
B I.D. (if applicable): [@] Duplicate I.D. (if applicable):											
Analyzed for: TPH-G BTEX MTBE TPH	analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other:										
D.O. (if req'd): Pre-purge:	^{mg} / _L P	ost-purge:	mg/L								
O.R.P. (if req'd): Pre-purge:	mV P	ost-purge:	mV								

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	1445-1471-1471-1471-1471-1471-1471-1471-	<u>L'ELEC</u>	ILI VY ELLE IVEO.	INITORING D.	AIASNELI	· .				
BTS #: 13	0305-0	5621		Site: 97560	1701					
Sampler:	GR			Date: 03/05/2013						
Well I.D.:	5-6	r		Well Diameter: 2 3 4 6 8						
Total Well	Depth (TD): [[.	45	Depth to Water (DTW): 6.41						
Depth to Fr	ee Product	- 5 (#		Thickness of F	ree Product (fe	et):				
Referenced	to:	PVO	Grade	D.O. Meter (if	req'd):	YSI HACH				
DTW with	80% Rech	arge [(H	leight of Water	Column x 0.20) + DTW]: 7	2.42				
Purge Method:	Bailer Disposable B <u>Positive Air I</u> Electric Subn	Displaceme		Waterra Peristaltic tion Pump	Sampling Method: Other:	Disposable Bailer Extraction Port Dedicated Tubing				
3.3 (0 1 Case Volume		3 fied Volum	$= \frac{9.9}{\text{Calculated Vo}}$	_Gals. J" Jume	er Multiplier Well 0.04 4" 0.16 6" 0.37 Othe	Diameter Multiplier 0.65 1.47 r radius ² * 0.163				
Time	Temp (°F)	pH	Cond. (mS or(uS)	Turbidity (NTUs)	Gals. Removed	Observations				
1012	63.8	6.84	900.6	18	3.5					
1012		well	dewatered	Q	4.0					
13/8	62.6	6.88	947.5	30	Grab					
Did well de	water?	(es)	No	Gallons actuall	y evacuated: 4	4.0				
Sampling D	ate: 03/05	12013	Sampling Time	: 1318	Depth to Wate	r: 6_44				
Sample I.D.	: 5-6			Laboratory:	Test America)	Other				
Analyzed fo	or: TPH-G	BTEX	MTBE TPH-D	Oxygenates (5) ζ	Other Seec	DC .				
EB I.D. (if a	applicable)	•	(2) Time	Duplicate I.D.	(if applicable):					
Analyzed fo	or: TPH-G	BTEX	MTBE TPH-D	Oxygenates (5)	Other:					
D.O. (if req'	d): Pr	e-purge:		^{mg} /L P	ost-purge:	mg/L				
O.R.P. (if re	eq'd): Pr	e-purge:		_mV P	ost-purge:	mV				

CHEIL NATES F ראי הא הא צאי)

F		SHEL	L WELL MOP	NITORING D	ATA SHEET						
BTS #: 19	30305-	GRI	••••••••••••••••••••••••••••••••••••••	Site: 975	<u> </u>						
Sampler:	GR			Date: 03/	0572013						
Well I.D.:	5-7			Well Diamete	r: 2 3 👍	6 8					
Total Well	Depth (TD): 10.	99	Depth to Water (DTW): 6.35							
Depth to Fr	ee Product	- 4 - 1			Free Product (fee						
Referenced	to:	PVC	Grade	D.O. Meter (i	f req'd):	YSI HACH					
DTW with	80% Rech	arge [(H	leight of Water	Column x 0.20	() + DTW]: 7	,28					
Purge Method:	Disposable Bailer Peristaltic Disposable Bailer Middleburg Extraction Pump Extraction Port Electric Submersible Other Dedicated Tubing Other:										
$\frac{3.0}{(\text{Gals.}) \times \frac{3}{\text{Specified Volumes}}} = \frac{9.0}{(\text{Calculated Volume})} = \frac{9.0}{(\text{Gals.}) \times \frac{3}{(\text{Calculated Volume})}} = \frac{9.0}{(\text{Calculated Volume})} = \frac{9.0}{(\text{Gals.}) \times \frac{3}{(\text{Calculated Volume})}} = \frac{9.0}{(\text{Calculated Volume})} = \frac{9.0}{(\text{Calculated Volume})}} = \frac{9.0}{(\text{Calculated Volume})} = \frac$											
Time	Temp (°F)	pН	Cond. (mS/cm or (µS/cm))	Turbidity (NTUs)	Gals. Removed	Observations					
1021	64-2	6-69	1053	19	3.0						
1021		well	1053 dewatered	e	3.3						
1 1 1											
1330	63.8	6.61	1048	15	Grab						
Did well de	water?	Yes	No	Gallons actua	lly evacuated:	3.3					
Sampling D	ate: 63/05	72013	Sampling Time	: 1330	Depth to Wate	r: 6.50					
Sample I.D.		7		Laboratory:	(Test America)	Dther					
Analyzed fo	r: TPH-G	BTEX	MTBE TPH-D (Other) See Co	<i>0</i> C						
EB I.D. (if a	EB I.D. (if applicable):										
Analyzed fo	Analyzed for: TPH-G BTEX MTBE TPH-D Other:										
D.O. (if req'	D.O. (if req'd): Pre-purge: $\frac{mg}{L}$ Post-purge: $\frac{mg}{L}$										
O.R.P. (if re	q'd): Pr	e-purge:		mV	Post-purge:	mV					

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SHELL WELL M	ONITORING DA	ATA SHEET								
BTS #: 130305 - GRI	Site: 975	64701								
Sampler: GR	Date: 03/05/2013									
Well I.D.: 5-8	Well Diameter	: 2 3 4	68							
Total Well Depth (TD): 11.80	Depth to Wate	Depth to Water (DTW): 7.10								
Depth to Free Product:	Thickness of F	ree Product (fe	et):							
Referenced to: Grade	D.O. Meter (if	req'd):	YSI HACH							
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: $\$$. 09										
Purge Method: Bailer Disposable Bailer Middleburg Ext Electric Submersible Other		Sampling Method: Other:	Disposable Bailer Extraction Port Dedicated Tubing							
	Well Diameter	er Multiplier Well 1 0.04 4"	Diameter Multiplier 0.65							
$\frac{3.0}{1 \text{ Case Volume}} (\text{Gals.}) \times \frac{3}{\text{Specified Volumes}} = \frac{9.0}{\text{Calculated}}$		0.16 6" 0.37 Other	1,47 r radius ² * 0,163							
Time Temp (°F) pH Cond. (mS/cm of µS/ch	<u> </u>	Gals. Removed	Observations							
1040 65-0 6-55 955-6 1040 Well dewater	, 24									
1040 Well dewater	er @	4-0								
1355 64.4 6.62 1053	32	Gray								
Did well dewater? No	Gallons actuall	v evacuated: 4	4.0							
Sampling Date: 03/05/2013 Sampling Tin		Depth to Wate								
Sample I.D.: $\leq -\beta_{s}$			Dther							
Analyzed for: TPH-G BTEX MTBE TPH-D	Other see (
EB I.D. (if applicable):										
Analyzed for: TPH-G BTEX MTBE TPH-D	Other:									
D.O. (if req'd): Pre-purge:	0.0. (if req'd): Pre-purge: $\frac{mg}{L}$ Post-purge: $\frac{mg}{L}$									
O.R.P. (if req'd): Pre-purge:	mV P	ost-purge:	mV							

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BTS #: ז	30305-	GRI		Site: 97	564701						
Sampler:	GR		1111-1111-111-111-111-111-111-111-111-	Date: 03/	05/2013						
Well I.D.:	5-9		****	Well Diamete	r: 2 3 🏟	68					
Total Well	Depth (TD): [[.	90	Depth to Water (DTW): 6.53							
Depth to Fr	ee Product	•		Thickness of	Free Product (fe	et):					
Referenced	to:	EVO	Grade	D.O. Meter (i	f req'd):	YSI HACH					
DTW with 8	80% Rech	arge [(H	leight of Water	Column x 0.20)) + DTW]: 7	7.60					
Purge Method:	Bailer Disposable B Positive Air I Electric Subn	Displaceme		Waterra Peristaltic tion Pump	Sampling Method	Bailer Disposable Bailer Extraction Port Dedicated Tubing					
<u>3.5 ((</u> 1 Case Volume		3 fied Volum	$= \frac{10.5}{\text{Calculated Vol}}$	Gals. 4 Gals. 3"	Multiplier Well 0.04 4" 0.16 6" 0.37 Other	Diameter Multiplier 0.65 1.47 er radius ² * 0.163					
Time	Temp (°F)	pН	Cond. (mS or (µŠ)	Turbidity (NTUs)	Gals. Removed	Observations					
1030	64.7	6-67	1049	34	3.5	odor					
1030		well	dewatered	Q	4.0						
1342	63.1	6.79	982.8	35	Grab						
Did well dev	water? (Yes?	No	Gallons actual	ly evacuated:	4.0					
Sampling D	ate: 03/05	12013	Sampling Time	: 1342	Depth to Wate	r: 6.54					
Sample I.D.	: <u>S-</u> G			Laboratory:	(Test America)	Other					
Analyzed fo	r: TPH-G	BTEX	MTBE TPH-D	Oxygenates (5)	Other See CC	ic .					
EB I.D. (if a	B I.D. (if applicable): [@] Duplicate I.D. (if applicable):										
Analyzed fo	r: TPH-G	BTEX	MTBE TPH-D	Oxygenates (5)	Other:						
D.O. (if req'	d): Pr	e-purge:		mg/L	Post-purge:	mg/L					
O.R.P. (if re	q'd): Pr	e-purge:		mV	Post-purge:	mV					

Blaine Tech Services, Inc. 1680 Rogers Ave., San Jose, CA 95112 (800) 545-7558

SHELL WELL MONITORING DATA SHEET

DATE: 3/05/2013

ADDRESS

CITY & STATE

1601 Webster St. Alameda, CA

Well ID	Manwa	y Cover,	Type, Co	ondition		Well La	beled / Ited	lpon Arri Well (Grip Conc	Cap oper)	Well L	ock Con	dition	Sur	Pad / face Aition	Note Repairs Made Detailed Explanation of Maintenance Recommended and Performed		os of ell lition	Repair Date and PM Initials
TBW-N	Standpipe	Flush	G	Ð	Size (inch)	Ø	N	Ì	R	$\textcircled{\begin{subarray}{c} \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \$	R	NL	C)	P	- bandle missing from vault lid - cloan threads to secure bolts	Y	Ø	
<u>S-2</u>	Standpipe	Flush/	G	P	Size (inch)	Ô	N	Ö	R	Ġ	R	NL	C)	Р		Y	¢	
5-3	Standpipe	Flush	Ô	Р	Size (inch)	Ø	N	E)	R	©	R	NL.	٢	р		Y		
5-4	Standpipe	Flush	Ì	Р	Size (inch) 12	Ô	N	G	R	·C)	R	NL	ම	P		γ	Þ	
S-HB	Standpipe	Eust	6)	p	Size (inch)	Ø	N	Ó	R	(C)	R	NL.	G	q		Y	Ś	
5-5	Standpipe	Flush	O	Р	Size (inch)	Ô	N	I	R	Ì	R	NL	O	Р		Y	Ø	
S-6	Standpipe	Flush	\bigcirc	p	Size (inch)	Ø	N	©	R	G	R	NL	6	P		Ŷ	B.	
<u>57</u>	Standpipe	(ush)	G	ą	Size (inch)	O	N	Ø	R	G	R	NL	O	Р		Y	Ø	
5-8	Standpipe	Flush	Ø	P	Size (inch)	Ø	N	©	R	Í	R	NL	Ø	P		Υ.	Ø	*
5-9	Standpipe	Flush	Ó	р	Size (inch) 12	Ø	N	Ó	R	Ó	R	NL	S	Р		Y	Ø	
	Standpipe	Flush	G	Р	Size (inch)	Y	N	G	R	G	R	NL	G	Р		Y	N	
TOTAL # CAPS REPLACED =											\underline{O}	= TOTAL	# OF LC	OCKS RE	EPLACED			
Condition of S Abandor	oll Boring P ned Monitori		G	P	NA	lt PC	OOR, Bor	ings/Well (Ds or Loc	cation Des	cription:			· · · ·	*·	Y	Ø	
en an the second se	Compound xes that app	y)	Condi	lion of En	closure		on of Are. Inclosure		Comp	ound Sec	urity	Emerge	ncy Conti Visible	act info	Cleaning / Repairs Recommended and Conducted	Phot Conc		Repair Date and PM Initials
NA Building Building w/ Fence Comp. Fenced Compound Trailer			G	р		G	P	NIA	G	P		Y	N	(NIA)		Y		
Number of Drums On-site	Does the I Source o	_abel Revi of the Con			ed Correctly riting Legib		Dri	m Conditi	on	Confirm Relate Environ	ed to		Located		Detailed Explanation of Any Issues Resolved	Phot Dri Conc	m	Date Orums Removed from Site and PM Initials
)	\mathcal{C}	N	N/A	Ý	N	N/A	Ì	9	N/A	Ø	N	Y	N	(N/A)		Y	Ø	

G = Good (Acceptable) R = Replaced

P = Poor (needs attention) NL = No Lock Required

Note: All repairs other than tooks and grippers require Shell PM approval prior to repair.

* = Groundwater monitoring well covers must be painted and labeled in accordance with applicable regulations. Version 2.4, March 2008

All environmental wells and the remediation compound were in good condition, locked, and secured upon my departure (unless otherwise noted above).

Gregory Roberts BTS Print or type Name of Field Personnel & Consultant Company

APPENDIX B

TESTAMERICA LABORATORIES, INC. --ANALYTICAL REPORT



THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc. TestAmerica Irvine 17461 Derian Ave Suite 100 Irvine, CA 92614-5817 Tel: (949)261-1022

TestAmerica Job ID: 440-40367-1 Client Project/Site: 1601 Webster St., Alameda, CA

For: Conestoga-Rovers & Associates, Inc. 5900 Hollis Street Suite A Emeryville, California 94608

Attn: Peter Schaefer

Philip Somelle

LINKS

Review your project results through

Have a Question?

www.testamericainc.com

Visit us at:

Authorized for release by: 3/20/2013 10:12:51 AM

Philip Sanelle Project Manager I philip.sanelle@testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Sample Summary

Client: Conestoga-Rovers & Associates, Inc. Project/Site: 1601 Webster St., Alameda, CA

TestAmerica Job ID: 440-40367-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
440-40367-1	TBW-N	Water	03/05/13 11:00	03/08/13 09:30
440-40367-2	S-2	Water	03/05/13 12:20	03/08/13 09:30
440-40367-3	S-3	Water	03/05/13 12:32	03/08/13 09:30
440-40367-4	S-4	Water	03/05/13 12:43	03/08/13 09:30
440-40367-5	S-4B	Water	03/05/13 12:55	03/08/13 09:30
440-40367-6	S-5	Water	03/05/13 13:06	03/08/13 09:30
440-40367-7	S-6	Water	03/05/13 13:18	03/08/13 09:30
440-40367-8	S-7	Water	03/05/13 13:30	03/08/13 09:30
440-40367-9	S-8	Water	03/05/13 13:55	03/08/13 09:30
440-40367-10	S-9	Water	03/05/13 13:42	03/08/13 09:30

Job ID: 440-40367-1

Laboratory: TestAmerica Irvine

Narrative

Job Narrative 440-40367-1

Comments

No additional comments.

Receipt

The samples were received on 3/8/2013 9:30 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 1.6° C.

GC/MS VOA

No analytical or quality issues were noted.

VOA Prep

No analytical or quality issues were noted.

TestAmerica Job ID: 440-40367-1

Lab Sample ID: 440-40367-2

Matrix: Water

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Client Sample ID: TBW-N							Lab Sam	ple ID: 440-40	
ate Collected: 03/05/13 11:00 ate Received: 03/08/13 09:30								Matrix	k: Wate
Method: 8260B/CA_LUFTMS -	Volatile Organic	Compounds	s by GC/MS					· · · · · ·	
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Volatile Fuel Hydrocarbons (C4-C12)	12000		500		ug/L			03/13/13 13:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
Dibromofluoromethane (Surr)	105		80 - 120			-		03/13/13 13:33	1
4-Bromofluorobenzene (Surr)	112		80 - 120					03/13/13 13:33	1
Toluene-d8 (Surr) -	109		80 - 120					03/13/13 13:33	1
_ Method: 8260B - Volatile Orga	nic Compounds (GC/MS)							
Analyte	-	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	ND		5.0		ug/L	· · ·		03/13/13 13:33	
Ethylbenzene	130		5.0		ug/L			03/13/13 13:33	- 10
Methyl-t-Butyl Ether (MTBE)	ND		5.0		ug/L			03/13/13 13:33	1
tert-Butyl alcohol (TBA)	. ND		100		ug/L			03/13/13 13:33	10
Toluene	9.0		5.0		ug/L			03/13/13 13:33	10
Xylenes, Total	260		10		ug/L			03/13/13 13:33	· 1(
1,2-Dichloroethane	ND		5.0		ug/L		• • • • • • • • • • • • • • • • • • • •	03/13/13 13:33	1
Ethanol	ND		1500		ug/L			03/13/13 13:33	10
1,2-Dibromoethane (EDB)	NĐ		5.0		ug/L			03/13/13 13:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	112		80 - 120			-		03/13/13 13:33	1
Dibromofluoromethane (Surr)	105		80 - 120					03/13/13 13:33	. 1
Toluene-d8 (Surr)	109		80 - 120					03/13/13 13:33	1

Client Sample ID: S-2

Date Collected: 03/05/13 12:20 Date Received: 03/08/13 09:30

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac Volatile Fuel Hydrocarbons (C4-C12) ND 50 ug/L 03/13/13 06:26 1 %Recovery Surrogate Qualifier Limits Prepared Analyzed Dil Fac Dibromofluoromethane (Surr) 112 80 - 120 03/13/13 06:26 4-Bromofluorobenzene (Surr) 110 80 - 120 03/13/13 06:26 80 - 120 03/13/13 06:26 Toluene-d8 (Surr) 108 Method: 8260B - Volatile Organic Compounds (GC/MS) Analyte **Result Qualifier** RL MDL Unit D Prepared Analyzed Dil Fac

Benzene	ND	0.50	ug/L		03/13/13 06:26	1
Ethylbenzene	ND	0.50	ug/L		03/13/13 06:26	1
Methyl-t-Butyl Ether (MTBE)	0.63	0.50	ug/L		03/13/13 06:26	1
tert-Butyl alcohol (TBA)	ND	10	ug/L		03/13/13 06:26	.1
Toluene	ND	0.50	ug/L		03/13/13 06:26	1
Xylenes, Total	ND	1.0	ug/L		03/13/13 06:26	1
Surrogate	%Recovery Qu	ualifier Limits		Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110	80 - 120			03/13/13 06:26	1
Dibromofluoromethane (Surr)	112	80 - 120			03/13/13 06:26	1
Toluene-d8 (Surr)	108	80 - 120			03/13/13 06:26	1

TestAmerica Job ID: 440-40367-1

lient Sample ID: S-3							Lab San	ple ID: 440-4	0367-3
ate Collected: 03/05/13 12:32								=	: Wate
ate Received: 03/08/13 09:30	-								
Method: 8260B/CA_LUFTMS - Vo	latile Organic	Compounds	by GC/MS						
Analyte	-	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Volatile Fuel Hydrocarbons (C4-C12)	ND		50		ug/L			03/13/13 11:00	······
Surrogate	%Recovery	Qualifier	Limits			-	Prepared	Analyzed	Dil F
Dibromofluoromethane (Surr)	101		80 - 120					03/13/13 11:00	
4-Bromofluorobenzene (Surr)	110		80 - 120					03/13/13 11:00	
Toluene-d8 (Surr)	109		80 - 120					03/13/13 11:00	
	: Compounds (GC/MS)							
Method: 8260B - Volatile Organic _{Analyte}		GC/MS) Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Method: 8260B - Volatile Organic		. ,		MDL	Unit ug/L	<u> </u>	Prepared	Analyzed 03/13/13 11:00	Dil Fa
Method: 8260B - Volatile Organic ^{Analyte}	Result	. ,		MDL		D	Prepared		Dil Fa
Method: 8260B - Volatile Organic Analyte Benzene	Result ND	. ,	0.50	MDL	ug/L	<u> </u>	Prepared	03/13/13 11:00	Dil Fa
Method: 8260B - Volatile Organic Analyte Benzene Ethylbenzene	Result ND ND	. ,	0.50	MDL	ug/L ug/L	D	Prepared	03/13/13 11:00 03/13/13 11:00	Dil Fa
Method: 8260B - Volatile Organic Analyte Benzene Ethylbenzene Methyl-t-Butyl Ether (MTBE)	Result ND ND ND	. ,	0.50 0.50 0.50	MDL	ug/L ug/L ug/L	<u> </u>	Prepared	03/13/13 11:00 03/13/13 11:00 03/13/13 11:00	Dil Fa
Method: 8260B - Volatile Organic Analyte Benzene Ethylbenzene Methyl-t-Butyl Ether (MTBE) tert-Butyl alcohol (TBA)	Result ND ND ND ND	. ,	0.50 0.50 0.50 10	MDL	ug/L ug/L ug/L ug/L	D	Prepared	03/13/13 11:00 03/13/13 11:00 03/13/13 11:00 03/13/13 11:00	Dil F
Method: 8260B - Volatile Organic Analyte Benzene Ethylbenzene Methyl-t-Butyl Ether (MTBE) tert-Butyl alcohol (TBA) Toluene	Result ND ND ND ND ND	Qualifier	0.50 0.50 0.50 10 0.50	MDL	ug/L ug/L ug/L ug/L ug/L	<u>D</u>	Prepared	03/13/13 11:00 03/13/13 11:00 03/13/13 11:00 03/13/13 11:00 03/13/13 11:00	Dil Fa
Method: 8260B - Volatile Organic Analyte Benzene Ethylbenzene Methyl-t-Butyl Ether (MTBE) tert-Butyl alcohol (TBA) Toluene Xylenes, Total	Result ND ND ND ND ND ND	Qualifier	0.50 0.50 0.50 10 0.50 1.0	MDL	ug/L ug/L ug/L ug/L ug/L	<u> </u>	· · · · · · · · · · · · · · · · · · ·	03/13/13 11:00 03/13/13 11:00 03/13/13 11:00 03/13/13 11:00 03/13/13 11:00 03/13/13 11:00	
Method: 8260B - Volatile Organic Analyte Benzene Ethylbenzene Methyl-t-Butyl Ether (MTBE) tert-Butyl alcohol (TBA) Toluene Xylenes, Total	Result ND ND ND ND ND ND ND	Qualifier	0.50 0.50 0.50 10 0.50 1.0 <i>Limits</i>	MDL	ug/L ug/L ug/L ug/L ug/L	<u> </u>	· · · · · · · · · · · · · · · · · · ·	03/13/13 11:00 03/13/13 11:00 03/13/13 11:00 03/13/13 11:00 03/13/13 11:00 03/13/13 11:00 03/13/13 11:00 <i>Analyzed</i>	

Client Sample ID: S-4

Date Collected: 03/05/13 12:43

Lab Sample ID: 440-40367-4

Analyzed

03/13/13 12:32

03/13/13 12:32

03/13/13 12:32

03/13/13 12:32

03/13/13 12:32

03/13/13 12:32

Matrix: Water

Dil Fac

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Date Received: 03/08/13 09:30

Method: 8260B/CA_LUFTMS - Vo	latile Organic	Compound	s by GC/MS				×		
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Volatile Fuel Hydrocarbons (C4-C12)	ND		50		ug/L			03/13/13 12:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	110		80 - 120			-		03/13/13 12:32	1
4-Bromofluorobenzene (Surr)	111		80 - 120					03/13/13 12:32	1
Toluene-d8 (Surr)	109		80 - 120					03/13/13 12:32	1

Method: 8260B - Volatile Orga Analyte		Qualifier	RL	MDL	Unit	D	Prepared
Benzene	ND	· · · · · · · · · · · · · · · · · · ·	0.50		ug/L		
Ethylbenzene	ND		0.50		ug/L		
Methyl-t-Butyl Ether (MTBE)	ND		0.50		ug/L		
tert-Butyl alcohol (TBA)	ND		10		ug/L		
Toluene	ND		0.50		ug/L		
Xylenes, Total	ND		1.0		ug/L		

÷ .							
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	111		80 - 120	·	03/13/13 12:32	1	
 Dibromofluoromethane (Surr)	110		80 - 120		03/13/13 12:32	1	
Toluene-d8 (Surr)	109		80 - 120		03/13/13 12:32	1	

TestAmerica Job ID: 440-40367-1

Client Sample ID: S-4B

Date Collected: 03/05/13 12:55 Date Received: 03/08/13 09:30

Lab Sample ID: 440-40367-5 Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Volatile Fuel Hydrocarbons (C4-C12)	ND	· · · ·	50		ug/L	 		03/13/13 13:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	109		80 - 120			-		03/13/13 13:02	1
4-Bromofluorobenzene (Surr)	112		80 - 120					03/13/13 13:02	1
Toluene-d8 (Surr)	109		80 - 120					03/13/13 13:02	1
 Method: 8260B - Volatile Organic	Compounds (GC/MS)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.50		ug/L	 		03/13/13 13:02	1
Ethylbenzene	ND	·	. 0.50		ug/L			03/13/13 13:02	· 1
Methyl-t-Butyl Ether (MTBE)	0.97		0.50		ug/L			03/13/13 13:02	1
tert-Butyl alcohol (TBA)	ND		10		ug/L			03/13/13 13:02	1
Toluene	ND		0.50		ug/L			03/13/13 13:02	1
Xylenes, Total	ND		1.0		ug/L			03/13/13 13:02	1
Surrogate	%Recovery	Qualifiar	Limits				Bronorod	Analyzed	Dil Fac
		Quanner				-	Prepared	Analyzed	Direc
4-Bromofluorobenzene (Surr)	112		80 - 120					03/13/13 13:02	1
Dibromofluoromethane (Surr)	109		80 - 120					03/13/13 13:02	1
Toluene-d8 (Surr)	. 109		80 - 120					03/13/13 13:02	1

Client Sample ID: S-5

Date Collected: 03/05/13 13:06

Lab Sample ID: 440-40367-6 Matrix: Water

Date Received: 03/08/13 09:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Volatile Fuel Hydrocarbons (C4-C12)	ND		50		ug/L		ануулуучу ал на	03/13/13 00:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	105		80_120			-		03/13/13 00:02	1
4-Bromofluorobenzene (Surr)	114		80 - 120			•		03/13/13 00:02	1
Toluene-d8 (Surr)	113		80 - 120					03/13/13 00:02	1

Analyte	Result (Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.50		ug/L			03/13/13 00:02	1
Ethylbenzene	ND		0.50		ug/L			03/13/13 00:02	1
Methyl-t-Butyl Ether (MTBE)	1.4		0.50		ug/L			03/13/13 00:02	1
tert-Butyl alcohol (TBA)	ND		10		ug/L			03/13/13 00:02	1
Toluene	ND		0.50		ug/L			03/13/13 00:02	1
Xylenes, Total	ND	•	1.0		ug/L			03/13/13 00:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		80 - 120			-		03/13/13 00:02	1
Dibromofluoromethane (Surr)	105		80 - 120					03/13/13 00:02	1
Toluene-d8 (Surr)	113		80 - 120		•			03/13/13 00:02	. 1

TestAmerica Job ID: 440-40367-1

Client Sample ID: S-6 Date Collected: 03/05/13 13:18							Lab Sam	ple ID: 440-4 Matrix	0367-7 <: Water
Date Received: 03/08/13 09:30									
Method: 8260B/CA_LUFTMS - Vo Analyte	-	Compound Qualifier	ls by GC/MS _{RL}	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Volatile Fuel Hydrocarbons	530		50		ug/L			03/13/13 00:29	1
(C4-C12)				•	3				
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	108	·	80 - 120			-		03/13/13 00:29	
4-Bromofluorobenzene (Surr)	116		80 - 120					03/13/13 00:29	
Toluene-d8 (Surr)	113		80 - 120	•				03/13/13 00:29	
Method: 8260B - Volatile Organic	c Compounds (GC/MS)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	ND	1	0.50		ug/L			03/13/13 00:29	
Ethylbenzene	ND		0.50	- -	ug/L			03/13/13 00:29	
Methyl-t-Butyl Ether (MTBE)	ND		0.50		ug/L			03/13/13 00:29	
tert-Butyl alcohol (TBA)	ND		10		ug/L			03/13/13 00:29	••••••
Toluene	ND		0.50		ug/L			03/13/13 00:29	
Xylenes, Total	ND		1.0		ug/L			03/13/13 00:29	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
.			80 - 120			-		03/13/13 00:29	
	116		00 - 120						
4-Bromofluorobenzene (Surr)	116 108		80 - 120					03/13/13 00:29	
4-Bromofluorobenzene (Surr) Dibromofluoromethane (Surr) Toluene-d8 (Surr) 							Lab Sam	03/13/13 00:29	0367-8
4-Bromofluorobenzene (Surr) Dibromofluoromethane (Surr) Toluene-d8 (Surr) Client Sample ID: S-7 Date Collected: 03/05/13 13:30 Date Received: 03/08/13 09:30	108 113 Diatile Organic	-	80 - 120 80 - 120 ds by GC/MS	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	· .		03/13/13 00:29 1ple ID: 440-4 Matrix	k: Water
4-Bromofluorobenzene (Surr) Dibromofluoromethane (Surr) Toluene-d8 (Surr) Client Sample ID: S-7 Date Collected: 03/05/13 13:30 Date Received: 03/08/13 09:30 Method: 8260B/CA_LUFTMS - Vo Analyte	108 113 Diatile Organic Result	Compound Qualifier	80 - 120 80 - 120 ds by GC/MS RL	MDL	Unit	D	Lab Sam	03/13/13 00:29 Tiple ID: 440-4 Matrix Analyzed	0367-8 <: Wate Dil Fac
4-Bromofluorobenzene (Surr) Dibromofluoromethane (Surr) Toluene-d8 (Surr) Client Sample ID: S-7 Pate Collected: 03/05/13 13:30 Pate Received: 03/08/13 09:30 Method: 8260B/CA_LUFTMS - Vo Analyte Volatile Fuel Hydrocarbons	108 113 Diatile Organic	-	80 - 120 80 - 120 ds by GC/MS	MDL	Unit ug/L	D		03/13/13 00:29 1ple ID: 440-4 Matrix	0367-8 <: Wate Dil Fa
4-Bromofluorobenzene (Surr) Dibromofluoromethane (Surr) Toluene-d8 (Surr) Client Sample ID: S-7 Pate Collected: 03/05/13 13:30 Pate Received: 03/08/13 09:30 Method: 8260B/CA_LUFTMS - Voc Analyte Volatile Fuel Hydrocarbons (C4-C12)	108 113 Diatile Organic Result	Qualifier	80 - 120 80 - 120 ds by GC/MS RL	MDL		<u>D</u>		03/13/13 00:29 Tiple ID: 440-4 Matrix Analyzed	0367-{ k: Wate Dil Fa
4-Bromofluorobenzene (Surr) Dibromofluoromethane (Surr) Toluene-d8 (Surr) Client Sample ID: S-7 Pate Collected: 03/05/13 13:30 Pate Received: 03/08/13 09:30 Method: 8260B/CA_LUFTMS - Voc Analyte Volatile Fuel Hydrocarbons (C4-C12) Surrogate Dibromofluoromethane (Surr)	108 113 olatile Organic Result 2000	Qualifier	80 - 120 80 - 120 ds by GC/MS RL 100	MDL		D	Prepared	03/13/13 00:29 hple ID: 440-4 Matrix <u>Analyzed</u> 03/13/13 11:23	0367-& k: Wate Dil Fa
4-Bromofluorobenzene (Surr) Dibromofluoromethane (Surr) Toluene-d8 (Surr) Client Sample ID: S-7 Pate Collected: 03/05/13 13:30 Pate Received: 03/08/13 09:30 Method: 8260B/CA_LUFTMS - Voc Analyte Volatile Fuel Hydrocarbons (C4-C12) Surrogate Dibromofluoromethane (Surr)	108 113 olatile Organic Result 2000 %Recovery	Qualifier	80 - 120 80 - 120 ds by GC/MS RL 100 <i>Limits</i>	MDL		D	Prepared	03/13/13 00:29 hple ID: 440-4 Matrix Analyzed 03/13/13 11:23 Analyzed	0367-{ k: Wate Dil Fa Dil Fa
4-Bromofluorobenzene (Surr) Dibromofluoromethane (Surr) Toluene-d8 (Surr) Client Sample ID: S-7 Date Collected: 03/05/13 13:30 Date Received: 03/08/13 09:30 Method: 8260B/CA_LUFTMS - Vo	108 113 0latile Organic Result 2000 %Recovery 84	Qualifier	80 - 120 80 - 120 ds by GC/MS RL 100 Limits 80 - 120	MDL		D	Prepared	03/13/13 00:29 hple ID: 440-4 Matrix 03/13/13 11:23 Analyzed 03/13/13 11:23	0367-{ k: Wate Dil Fa Dil Fa
4-Bromofluorobenzene (Surr) Dibromofluoromethane (Surr) Toluene-d8 (Surr) Client Sample ID: S-7 Pate Collected: 03/05/13 13:30 Pate Received: 03/08/13 09:30 Method: 8260B/CA_LUFTMS - Vo Analyte Volatile Fuel Hydrocarbons (C4-C12) Surrogate Dibromofluoromethane (Surr) 4-Bromofluorobenzene (Surr)	108 113 0latile Organic Result 2000 %Recovery 84 98 105 c Compounds (Qualifier Qualifier	80 - 120 80 - 120 ds by GC/MS RL 100 Limits 80 - 120 80 - 120	MDL		<u>D</u>	Prepared	03/13/13 00:29 pple ID: 440-4 Matrix Analyzed 03/13/13 11:23 03/13/13 11:23	0367-{ <: Wate Dil Fa Dil Fa
4-Bromofluorobenzene (Surr) Dibromofluoromethane (Surr) Toluene-d8 (Surr) Client Sample ID: S-7 Tate Collected: 03/05/13 13:30 ate Received: 03/08/13 09:30 Method: 8260B/CA_LUFTMS - Vo Analyte Volatile Fuel Hydrocarbons (C4-C12) Surrogate Dibromofluoromethane (Surr) 4-Bromofluorobenzene (Surr) Toluene-d8 (Surr) Method: 8260B - Volatile Organic Analyte	108 113 0latile Organic Result 2000 %Recovery 84 98 105 c Compounds (Qualifier Qualifier	80 - 120 80 - 120 ds by GC/MS RL 100 Limits 80 - 120 80 - 120		ug/L Unit	D	Prepared	03/13/13 00:29 pple ID: 440-4 Matrix Analyzed 03/13/13 11:23 03/13/13 11:23	0367-& <: Wate Dil Fac Dil Fa
4-Bromofluorobenzene (Surr) Dibromofluoromethane (Surr) Toluene-d8 (Surr) Elient Sample ID: S-7 ate Collected: 03/05/13 13:30 ate Received: 03/08/13 09:30 Method: 8260B/CA_LUFTMS - Vo Analyte Volatile Fuel Hydrocarbons (C4-C12) Surrogate Dibromofluoromethane (Surr) 4-Bromofluorobenzene (Surr) Toluene-d8 (Surr) Method: 8260B - Volatile Organic Analyte	108 113 0latile Organic Result 2000 %Recovery 84 98 105 c Compounds (Qualifier Qualifier	80 - 120 80 - 120 ds by GC/MS RL 100 <u>Limits</u> 80 - 120 80 - 120 80 - 120		ug/L		Prepared Prepared	03/13/13 00:29 pple ID: 440-4 Matrix Analyzed 03/13/13 11:23 03/13/13 11:23 03/13/13 11:23 03/13/13 11:23	0367-{ c: Wate Dil Fa
4-Bromofluorobenzene (Surr) Dibromofluoromethane (Surr) Toluene-d8 (Surr) Stient Sample ID: S-7 ate Collected: 03/05/13 13:30 ate Received: 03/08/13 09:30 Method: 8260B/CA_LUFTMS - Vo Analyte Volatile Fuel Hydrocarbons (C4-C12) Surrogate Dibromofluoromethane (Surr) 4-Bromofluorobenzene (Surr) Toluene-d8 (Surr) Method: 8260B - Volatile Organic Analyte Benzene Ethylbenzene	108 113 olatile Organic Result 2000 %Recovery 84 98 105 c Compounds (Result	Qualifier Qualifier	80 - 120 80 - 120 ds by GC/MS RL 100 Limits 80 - 120 80 - 120 80 - 120 80 - 120		ug/L Unit		Prepared Prepared	03/13/13 00:29 pple ID: 440-4 Matrix Analyzed 03/13/13 11:23 03/13/13 11:23 03/13/13 11:23 03/13/13 11:23 03/13/13 11:23 03/13/13 11:23	0367-{ c: Wate Dil Fa Dil Fa
4-Bromofluorobenzene (Surr) Dibromofluoromethane (Surr) Toluene-d8 (Surr) Client Sample ID: S-7 Pate Collected: 03/05/13 13:30 Pate Received: 03/08/13 09:30 Method: 8260B/CA_LUFTMS - Vo Analyte Volatile Fuel Hydrocarbons (C4-C12) Surrogate Dibromofluoromethane (Surr) 4-Bromofluorobenzene (Surr) Toluene-d8 (Surr) Method: 8260B - Volatile Organic Analyte Benzene Ethylbenzene Methyl-t-Butyl Ether (MTBE)	108 113 olatile Organic Result 2000 %Recovery 84 98 105 c Compounds (Result 120	Qualifier Qualifier	80 - 120 80 - 120 ds by GC/MS RL 100 Limits 80 - 120 80 - 120 80 - 120 80 - 120 80 - 120		ug/L Unit ug/L		Prepared Prepared	03/13/13 00:29 ple ID: 440-4 Matrix Analyzed 03/13/13 11:23 03/13/13 11:23 03/13/13 11:23 03/13/13 11:23 03/13/13 11:23 Analyzed 03/13/13 11:23	0367-8 <: Wate Dil Fa Dil Fa
4-Bromofluorobenzene (Surr) Dibromofluoromethane (Surr) Toluene-d8 (Surr) Client Sample ID: S-7 Pate Collected: 03/05/13 13:30 Pate Received: 03/08/13 09:30 Method: 8260B/CA_LUFTMS - Vo Analyte Volatile Fuel Hydrocarbons (C4-C12) Surrogate Dibromofluoromethane (Surr) 4-Bromofluorobenzene (Surr) Toluene-d8 (Surr) Method: 8260B - Volatile Organic Analyte Benzene Ethylbenzene Methyl-t-Butyl Ether (MTBE)	108 113 olatile Organic Result 2000 %Recovery 84 98 105 c Compounds (Result 120 6.1	Qualifier Qualifier	80 - 120 80 - 120 ds by GC/MS RL 100 <u>Limits</u> 80 - 120 80 - 120 80 - 120 80 - 120 80 - 120 1.0		Unit ug/L ug/L		Prepared Prepared	03/13/13 00:29 ple ID: 440-4 Matrix Analyzed 03/13/13 11:23 03/13/13 11:23 03/13/13 11:23 03/13/13 11:23 03/13/13 11:23 03/13/13 11:23	0367-{ <: Wate Dil Fa Dil Fa
4-Bromofluorobenzene (Surr) Dibromofluoromethane (Surr) Toluene-d8 (Surr) Client Sample ID: S-7 Pate Collected: 03/05/13 13:30 Pate Received: 03/08/13 09:30 Method: 8260B/CA_LUFTMS - Vo Analyte Volatile Fuel Hydrocarbons (C4-C12) Surrogate Dibromofluoromethane (Surr) 4-Bromofluorobenzene (Surr) Toluene-d8 (Surr) Method: 8260B - Volatile Organic Analyte Benzene Ethylbenzene Methyl-t-Butyl Ether (MTBE)	108 113 0latile Organic Result 2000 %Recovery 84 98 105 c Compounds (Result 120 6.1 ND	Qualifier Qualifier	80 - 120 80 - 120 ds by GC/MS RL 100 <u>Limits</u> 80 - 120 80 - 120 80 - 120 80 - 120 80 - 120 1.0 1.0		Unit ug/L ug/L ug/L		Prepared Prepared	03/13/13 00:29 ple ID: 440-4 Matrix Analyzed 03/13/13 11:23 03/13/13 11:23 03/13/13 11:23 03/13/13 11:23 03/13/13 11:23 03/13/13 11:23 03/13/13 11:23	0367-4 <: Wate Dil Fa Dil Fa
4-Bromofluorobenzene (Surr) Dibromofluoromethane (Surr) Toluene-d8 (Surr) Client Sample ID: S-7 Pate Collected: 03/05/13 13:30 Date Received: 03/08/13 09:30 Method: 8260B/CA_LUFTMS - Vo Analyte Volatile Fuel Hydrocarbons (C4-C12) Surrogate Dibromofluoromethane (Surr) 4-Bromofluorobenzene (Surr) Toluene-d8 (Surr) Method: 8260B - Volatile Organic Analyte Benzene Ethylbenzene Methyl-t-Butyl Ether (MTBE) tert-Butyl alcohol (TBA)	108 113 0latile Organic Result 2000 %Recovery 84 98 105 c Compounds (Result 120 6.1 ND ND	Qualifier Qualifier	80 - 120 80 - 120 ds by GC/MS RL 100 <i>Limits</i> 80 - 120 80 - 120 80 - 120 80 - 120 80 - 120 1.0 1.0 1.0 20		Unit ug/L ug/L ug/L ug/L ug/L		Prepared Prepared	03/13/13 00:29 Apple ID: 440-4 Matrix Analyzed 03/13/13 11:23 03/13/13 11:23 03/13/13 11:23 03/13/13 11:23 03/13/13 11:23 03/13/13 11:23 03/13/13 11:23 03/13/13 11:23	0367-{ <: Wate Dil Fa Dil Fa
4-Bromofluorobenzene (Surr) Dibromofluoromethane (Surr) Toluene-d8 (Surr) Client Sample ID: S-7 Pate Collected: 03/05/13 13:30 Pate Received: 03/08/13 09:30 Method: 8260B/CA_LUFTMS - Vo Analyte Volatile Fuel Hydrocarbons (C4-C12) Surrogate Dibromofluoromethane (Surr) 4-Bromofluorobenzene (Surr) Toluene-d8 (Surr) Method: 8260B - Volatile Organic Analyte Benzene Ethylbenzene Methyl-t-Butyl Ether (MTBE) tert-Butyl alcohol (TBA) Toluene Xylenes, Total Surrogate	108 113 olatile Organic Result 2000 %Recovery 84 98 105 c Compounds (Result 120 6.1 ND 6.2 10 %Recovery	Qualifier Qualifier GC/MS) Qualifier	80 - 120 80 - 120 ds by GC/MS RL 100 <i>Limits</i> 80 - 120 80 - 120 80 - 120 80 - 120 1.0 1.0 1.0 1.0 2.0 <i>Limits</i>		Unit ug/L ug/L ug/L ug/L ug/L ug/L		Prepared Prepared	03/13/13 00:29 ple ID: 440-4 Matrix Analyzed 03/13/13 11:23 03/13/13 11:2	0367-& c: Wate Dil Fac Dil Fac Dil Fac
4-Bromofluorobenzene (Surr) Dibromofluoromethane (Surr) Toluene-d8 (Surr) Client Sample ID: S-7 Date Collected: 03/05/13 13:30 Date Received: 03/08/13 09:30 Method: 8260B/CA_LUFTMS - Vo Analyte Volatile Fuel Hydrocarbons (C4-C12) Surrogate Dibromofluoromethane (Surr) 4-Bromofluorobenzene (Surr) Toluene-d8 (Surr) Method: 8260B - Volatile Organic Analyte Benzene Ethylbenzene Methyl-t-Butyl Ether (MTBE) tert-Butyl alcohol (TBA) Toluene Xylenes, Total Surrogate 4-Bromofluorobenzene (Surr)	108 113 0latile Organic Result 2000 %Recovery 84 98 105 c Compounds (Result 120 6.1 ND 0.1 ND 0.2 10	Qualifier Qualifier GC/MS) Qualifier	80 - 120 80 - 120 ds by GC/MS RL 100 <i>Limits</i> 80 - 120 80 - 120 80 - 120 80 - 120 80 - 120 1.0 1.0 1.0 1.0 20 1.0 2.0		Unit ug/L ug/L ug/L ug/L ug/L ug/L		Prepared Prepared Prepared	03/13/13 00:29 pple ID: 440-4 Matrix Analyzed 03/13/13 11:23 03/13/13 11:23	0367-8
4-Bromofluorobenzene (Surr) Dibromofluoromethane (Surr) Toluene-d8 (Surr) Client Sample ID: S-7 Date Collected: 03/05/13 13:30 Date Received: 03/08/13 09:30 Method: 8260B/CA_LUFTMS - Vo Analyte Volatile Fuel Hydrocarbons (C4-C12) Surrogate Dibromofluoromethane (Surr) 4-Bromofluorobenzene (Surr) Toluene-d8 (Surr) Method: 8260B - Volatile Organic Analyte Benzene Ethylbenzene Methyl-t-Butyl Ether (MTBE) tert-Butyl alcohol (TBA) Toluene Xylenes, Total Surrogate	108 113 olatile Organic Result 2000 %Recovery 84 98 105 c Compounds (Result 120 6.1 ND 6.2 10 %Recovery	Qualifier Qualifier GC/MS) Qualifier	80 - 120 80 - 120 ds by GC/MS RL 100 <i>Limits</i> 80 - 120 80 - 120 80 - 120 80 - 120 1.0 1.0 1.0 1.0 2.0 <i>Limits</i>		Unit ug/L ug/L ug/L ug/L ug/L ug/L		Prepared Prepared Prepared	03/13/13 00:29 ple ID: 440-4 Matrix Analyzed 03/13/13 11:23 03/13/13 11:2	Dil Fac

TestAmerica Job ID: 440-40367-1

lient Sample ID: S-8						•	Lab Sam	ple ID: 440-4	0367-9
ate Collected: 03/05/13 13:55 ate Received: 03/08/13 09:30							· · · ·	Matrix	: Wate
Method: 8260B/CA_LUFTMS -	Volatile Organic	Compound	s by GC/MS		-			•	
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Volatile Fuel Hydrocarbons (C4-C12)	3600		500		ug/L			03/13/13 01:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
Dibromofluoromethane (Surr)	109		80 - 120			-	•	03/13/13 01:24	1
4-Bromofluorobenzene (Surr)	115		80 - 120				•	03/13/13 01:24	. 1
Toluene-d8 (Surr)	112		80 - 120					03/13/13 01:24	1
Method: 8260B - Volatile Orga	nic Compounds (GC/MS)							
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	700		5.0		ug/L			03/13/13 01:24	1
Ethylbenzene	18		5.0		ug/L			03/13/13 01:24	1
Methyl-t-Butyl Ether (MTBE)	ND		5.0		ug/L			03/13/13 01:24	1
tert-Butyl alcohol (TBA)	ND		100		ug/L			03/13/13 01:24	
Toluene	ND		5.0		ug/L			03/13/13 01:24	1
Xylenes, Total	ND		10		ug/L			03/13/13 01:24	1
-									
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	115		80 - 120					03/13/13 01:24	1
Dibromofluoromethane (Surr)	109		80 - 120					03/13/13 01:24	
lient Sample ID: S-9	112		80 - 120				Lab Sam	03/13/13 01:24 Die ID: 440-40 Matrix	367-1
lient Sample ID: S-9 ate Collected: 03/05/13 13:42	112		80 - 120				Lab Sam	ole ID: 440-40	367-1
Client Sample ID: S-9 ate Collected: 03/05/13 13:42 ate Received: 03/08/13 09:30 Method: 8260B/CA_LUFTMS -	Volatile Organic	-	s by GC/MS					ble ID: 440-40 Matrix	367-1 k: Wate
Client Sample ID: S-9 ate Collected: 03/05/13 13:42 ate Received: 03/08/13 09:30 Method: 8260B/CA_LUFTMS - Analyte	Volatile Organic Result	Compound Qualifier	s by GC/MS	MDL	Unit	D	Lab Samp	ble ID: 440-40 Matrix Analyzed	367-1 k: Wate
Client Sample ID: S-9 ate Collected: 03/05/13 13:42 ate Received: 03/08/13 09:30 Method: 8260B/CA_LUFTMS - Analyte Volatile Fuel Hydrocarbons	Volatile Organic	-	s by GC/MS	MDL	Unit ug/L	D		ble ID: 440-40 Matrix	367-1 k: Wate
Client Sample ID: S-9 ate Collected: 03/05/13 13:42 ate Received: 03/08/13 09:30 Method: 8260B/CA_LUFTMS - Analyte Volatile Fuel Hydrocarbons (C4-C12)	Volatile Organic Result	Qualifier	s by GC/MS	MDL		D		ble ID: 440-40 Matrix Analyzed	367-1 x: Wate Dil Fa
Client Sample ID: S-9 ate Collected: 03/05/13 13:42 ate Received: 03/08/13 09:30 Method: 8260B/CA_LUFTMS - Analyte Volatile Fuel Hydrocarbons (C4-C12) Surrogate	Volatile Organic Result 1800	Qualifier	s by GC/MS 	MDL		<u> </u>	Prepared	Die ID: 440-40 Matrix Analyzed 03/13/13 12:46	367-1 x: Wate Dil Fa
Client Sample ID: S-9 ate Collected: 03/05/13 13:42 ate Received: 03/08/13 09:30 Method: 8260B/CA_LUFTMS - Analyte Volatile Fuel Hydrocarbons (C4-C12) Surrogate Dibromofluoromethane (Surr)	Volatile Organic Result 1800 %Recovery	Qualifier Qualifier	s by GC/MS RL 100 Limits	MDL		<u>D</u>	Prepared	Die ID: 440-40 Matrix Analyzed 03/13/13 12:46 Analyzed	367-1 x: Wate Dil Fa
Client Sample ID: S-9 ate Collected: 03/05/13 13:42 ate Received: 03/08/13 09:30 Method: 8260B/CA_LUFTMS - Analyte Volatile Fuel Hydrocarbons (C4-C12) Surrogate Dibromofluoromethane (Surr)	Volatile Organic Result 1800 %Recovery 86	Qualifier Qualifier	s by GC/MS <u>RL</u> 100 <u>Limits</u> 80 - 120	MDL		D	Prepared	Die ID: 440-40 Matrix 03/13/13 12:46 Analyzed 03/13/13 12:46	367-1 x: Wate Dil Fa
Client Sample ID: S-9 Pate Collected: 03/05/13 13:42 Pate Received: 03/08/13 09:30 Method: 8260B/CA_LUFTMS - Analyte Volatile Fuel Hydrocarbons (C4-C12) Surrogate Dibromofluoromethane (Surr) 4-Bromofluorobenzene (Surr) Toluene-d8 (Surr)	Volatile Organic Result 1800 %Recovery 86 96 105	Qualifier Qualifier	s by GC/MS <u>RL</u> 100 <u><i>Limits</i> 80 - 120 80 - 120</u>	MDL		<u> </u>	Prepared	Die ID: 440-40 Matrix 03/13/13 12:46 03/13/13 12:46 03/13/13 12:46	367-1 x: Wate
Client Sample ID: S-9 Pate Collected: 03/05/13 13:42 Pate Received: 03/08/13 09:30 Method: 8260B/CA_LUFTMS - Analyte Volatile Fuel Hydrocarbons (C4-C12) Surrogate Dibromofluoromethane (Surr) 4-Bromofluorobenzene (Surr) Toluene-d8 (Surr) Method: 8260B - Volatile Orga	Volatile Organic Result 1800 %Recovery 86 96 105 nic Compounds	Qualifier Qualifier	s by GC/MS <u>RL</u> 100 <u><i>Limits</i> 80 - 120 80 - 120</u>			D	Prepared	Die ID: 440-40 Matrix 03/13/13 12:46 03/13/13 12:46 03/13/13 12:46	367-1 x: Wate
Client Sample ID: S-9 ate Collected: 03/05/13 13:42 ate Received: 03/08/13 09:30 Method: 8260B/CA_LUFTMS - Analyte Volatile Fuel Hydrocarbons (C4-C12) Surrogate Dibromofluoromethane (Surr) 4-Bromofluorobenzene (Surr) Toluene-d8 (Surr) Method: 8260B - Volatile Orga Analyte	Volatile Organic Result 1800 %Recovery 86 96 105 nic Compounds	Qualifier Qualifier (GC/MS) Qualifier	s by GC/MS RL 100 <u>Limits</u> 80 - 120 80 - 120 80 - 120		ug/L		Prepared Prepared	Die ID: 440-40 Matrix Analyzed 03/13/13 12:46 03/13/13 12:46 03/13/13 12:46 03/13/13 12:46	367-1 x: Wate
Ilient Sample ID: S-9 ate Collected: 03/05/13 13:42 ate Received: 03/08/13 09:30 Method: 8260B/CA_LUFTMS - Analyte Volatile Fuel Hydrocarbons (C4-C12) Surrogate Dibromofluoromethane (Surr) 4-Bromofluorobenzene (Surr) Toluene-d8 (Surr) Method: 8260B - Volatile Orga Analyte	Volatile Organic Result 1800 %Recovery 86 96 105 nic Compounds Result	Qualifier Qualifier (GC/MS) Qualifier	s by GC/MS RL 100 Limits 80 - 120 80 - 120 80 - 120 80 - 120 RL		ug/L Unit		Prepared Prepared	Die ID: 440-40 Matrix Analyzed 03/13/13 12:46 03/13/13 12:46 03/13/13 12:46 03/13/13 12:46 03/13/13 12:46	367-1 x: Wate
Ilient Sample ID: S-9 ate Collected: 03/05/13 13:42 ate Received: 03/08/13 09:30 Method: 8260B/CA_LUFTMS - Analyte Volatile Fuel Hydrocarbons (C4-C12) Surrogate Dibromofluoromethane (Surr) 4-Bromofluorobenzene (Surr) Toluene-d8 (Surr) Method: 8260B - Volatile Orga Analyte Benzene Ethylbenzene	Volatile Organic Result 1800 %Recovery 86 96 105 nic Compounds Result 72	Qualifier Qualifier (GC/MS) Qualifier	s by GC/MS <u>RL</u> 100 <u>Limits</u> 80 - 120 80 - 120 80 - 120 80 - 120 120		Unit ug/L		Prepared Prepared	Die ID: 440-40 Matrix Analyzed 03/13/13 12:46 03/13/13 12:46 03/13/13 12:46 03/13/13 12:46 03/13/13 12:46 03/13/13 12:46	367-1 x: Wate
Client Sample ID: S-9 ate Collected: 03/05/13 13:42 ate Received: 03/08/13 09:30 Method: 8260B/CA_LUFTMS - Analyte Volatile Fuel Hydrocarbons (C4-C12) Surrogate Dibromofluoromethane (Surr) 4-Bromofluorobenzene (Surr) Toluene-d8 (Surr) Method: 8260B - Volatile Orga Analyte Benzene Ethylbenzene Methyl-t-Butyl Ether (MTBE)	Volatile Organic Result 1800 %Recovery 86 96 105 nic Compounds Result 72 4.9	Qualifier Qualifier (GC/MS) Qualifier	Is by GC/MS RL 100 Limits 80 - 120 80 - 120 80 - 120 80 - 120 RL 1.0		Unit ug/L ug/L		Prepared Prepared	Die ID: 440-40 Matrix Analyzed 03/13/13 12:46 03/13/13 12:46 03/13/13 12:46 03/13/13 12:46 03/13/13 12:46 03/13/13 12:46	367-1 x: Wate
Client Sample ID: S-9 ate Collected: 03/05/13 13:42 ate Received: 03/08/13 09:30 Method: 8260B/CA_LUFTMS - Analyte Volatile Fuel Hydrocarbons (C4-C12) Surrogate Dibromofluoromethane (Surr) 4-Bromofluorobenzene (Surr) Toluene-d8 (Surr) Method: 8260B - Volatile Orga Analyte Benzene Ethylbenzene Methyl-t-Butyl Ether (MTBE)	Volatile Organic Result 1800 %Recovery 86 96 105 nic Compounds Result 72 4.9 ND	Qualifier Qualifier (GC/MS) Qualifier	s by GC/MS <u>RL</u> 100 <u>Limits</u> 80 - 120 80 - 120 80 - 120 80 - 120 1.0 1.0 1.0		Unit ug/L ug/L ug/L		Prepared Prepared	Die ID: 440-40 Matrix Analyzed 03/13/13 12:46 03/13/13 12:46 03/13/13 12:46 03/13/13 12:46 03/13/13 12:46 03/13/13 12:46 03/13/13 12:46	367-1 x: Wate
Client Sample ID: S-9 ate Collected: 03/05/13 13:42 ate Received: 03/08/13 09:30 Method: 8260B/CA_LUFTMS - Analyte Volatile Fuel Hydrocarbons (C4-C12) Surrogate Dibromofluoromethane (Surr) 4-Bromofluorobenzene (Surr) Toluene-d8 (Surr) Method: 8260B - Volatile Orga Analyte Benzene Ethylbenzene Methyl-t-Butyl Ether (MTBE) tert-Butyl alcohol (TBA)	Volatile Organic Result 1800 %Recovery 86 96 105 nic Compounds Result 72 4.9 ND ND	Qualifier Qualifier (GC/MS) Qualifier	s by GC/MS <u>RL</u> 100 <u>Limits</u> 80 - 120 80 - 120 80 - 120 80 - 120 1.0 1.0 1.0 20		Unit ug/L ug/L ug/L ug/L		Prepared Prepared	Die ID: 440-40 Matrix Analyzed 03/13/13 12:46 03/13/13 12:46 03/13/13 12:46 03/13/13 12:46 03/13/13 12:46 03/13/13 12:46 03/13/13 12:46 03/13/13 12:46	367-1 x: Wate
Client Sample ID: S-9 Pate Collected: 03/05/13 13:42 Pate Received: 03/08/13 09:30 Method: 8260B/CA_LUFTMS - Analyte Volatile Fuel Hydrocarbons (C4-C12) Surrogate Dibromofluoromethane (Surr) 4-Bromofluorobenzene (Surr) Toluene-d8 (Surr) Method: 8260B - Volatile Orga Analyte Benzene Ethylbenzene Methyl-t-Butyl Ether (MTBE) tert-Butyl alcohol (TBA) Toluene	Volatile Organic Result 1800 %Recovery 86 96 105 nic Compounds Result 72 4.9 ND ND ND	Qualifier Qualifier (GC/MS) Qualifier	s by GC/MS RL 100 Limits 80 - 120 80 - 120 80 - 120 80 - 120 RL 1.0 1.0 1.0 20 1.0		Unit ug/L ug/L ug/L ug/L ug/L ug/L		Prepared Prepared	Analyzed 03/13/13 12:46 03/13/13 12:46 03/13/13 12:46 03/13/13 12:46 03/13/13 12:46 03/13/13 12:46 03/13/13 12:46 03/13/13 12:46 03/13/13 12:46 03/13/13 12:46 03/13/13 12:46 03/13/13 12:46 03/13/13 12:46 03/13/13 12:46 03/13/13 12:46 03/13/13 12:46 03/13/13 12:46 03/13/13 12:46	367-1 x: Wate Dil Fa
Dibromofluoromethane (Surr) 4-Bromofluorobenzene (Surr) Toluene-d8 (Surr) Method: 8260B - Volatile Orga Analyte Benzene Ethylbenzene Methyl-t-Butyl Ether (MTBE) tert-Butyl alcohol (TBA) Toluene Xylenes, Total	Volatile Organic Result 1800 %Recovery 86 96 105 nic Compounds Result 72 4.9 ND ND 2.8 6.4	Qualifier Qualifier (GC/MS) Qualifier	s by GC/MS RL 100 Limits 80 - 120 80 - 120 80 - 120 80 - 120 80 - 120 80 - 120 1.0 1.0 1.0 1.0 2.0		Unit ug/L ug/L ug/L ug/L ug/L ug/L		Prepared Prepared	Analyzed 03/13/13 12:46 03/13/13 12:46	1 367-11 x: Wate Dil Fa Dil Fa
Client Sample ID: S-9 Pate Collected: 03/05/13 13:42 Pate Received: 03/08/13 09:30 Method: 8260B/CA_LUFTMS - Analyte Volatile Fuel Hydrocarbons (C4-C12) Surrogate Dibromofluoromethane (Surr) 4-Bromofluorobenzene (Surr) Toluene-d8 (Surr) Method: 8260B - Volatile Orga Analyte Benzene Ethylbenzene Methyl-t-Butyl Ether (MTBE) tert-Butyl alcohol (TBA) Toluene Xylenes, Total Surrogate	Volatile Organic Result 1800 %Recovery 86 96 105 nic Compounds Result 72 4.9 ND 2.8 6.4 %Recovery	Qualifier Qualifier (GC/MS) Qualifier Qualifier	ls by GC/MS RL 100 Limits 80 - 120 80 - 120 80 - 120 80 - 120 RL 1.0 1.0 1.0 20 1.0 2.0 Limits		Unit ug/L ug/L ug/L ug/L ug/L ug/L		Prepared Prepared	Analyzed 03/13/13 12:46 03/13/13 12:46	367-10 x: Wate Dil Fa

TestAmerica Job ID: 440-40367-1

Date Collected:		00						Lab Samp		10-40367- Iatrix: Wate
Date Received: (_	03/08/13 09:3	10				·				
	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		10	10 mL	10 mL	91312	03/13/13 13:33	SS	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTM S		10	10 mL	10 mL	91313	03/13/13 13:33	SS	TAL IRV
Client Sample	e ID: S-2							Lab Samp	le ID: 44	0-40367
Date Collected: Date Received: (N	latrix: Wat
-	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	91223	03/13/13 06:26	MP	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTM S		1	10 mL	10 mL	91224	03/13/13 06:26	MP	TAL IRV
Client Sample Date Collected: Date Received:	03/05/13 12:3							Lab Samp		10-40367 Natrix: Wa
-	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL .	91312	03/13/13 11:00	SS	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTM		1	10 mL	10 mL	91313	03/13/13 11:00	SS	TAL IRV
_		s –								
Client Sample Date Collected: Date Received:	03/05/13 12:4							Lab Samp		10-40367 Natrix: Wat
					Initial	Final	Batch	Prepared		
	Batch	Batch		Dil	iniual	i mai				
– Ргер Туре	Batch Type	Batch Method	Run	Dil Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Prep Type Total/NA			Run				91312	or Analyzed	Analyst SS	- Lab TAL IRV
	Туре	Method	Run	Factor	Amount	Amount		03/13/13 12:32		
Total/NA	Type Analysis Analysis e ID: S-4B 03/05/13 12:5	Method 8260B 8260B/CA_LUFTM S 55	Run	Factor 1	Amount 10 mL	Amount 10 mL	91312	03/13/13 12:32	ss ss	TAL IRV TAL IRV 10-40367
Total/NA Total/NA Client Sample Date Collected: Date Received:	Type Analysis Analysis e ID: S-4B 03/05/13 12:1 03/08/13 09:3 Batch	Method 8260B 8260B/CA_LUFTM S 55 30 Batch		Factor 1 1 Dil	Amount 10 mL 10 mL	Amount 10 mL	91312	03/13/13 12:32 03/13/13 12:32 Lab Samp Prepared	ss ss	TAL IRV TAL IRV
Total/NA Total/NA Client Sample Date Collected: Date Received: Prep Type	Type Analysis Analysis e ID: S-4B 03/05/13 12: 03/08/13 09:3 Batch Type	Method 8260B 8260B/CA_LUFTM S 55 30 Batch Method	Run	Factor 1 1 Dil Factor	Amount 10 mL 10 mL Initial Amount	Amount 10 mL 10 mL Final Amount	91312 91313 Batch Number	03/13/13 12:32 03/13/13 12:32 Lab Samp Prepared or Analyzed	SS SS Die ID: 44 M Analyst	TAL IRV TAL IRV 40-40367 Matrix: Wat
Total/NA Total/NA Client Sample Date Collected: Date Received:	Type Analysis Analysis e ID: S-4B 03/05/13 12:1 03/08/13 09:3 Batch	Method 8260B 8260B/CA_LUFTM S 55 30 Batch		Factor 1 1 Dil	Amount 10 mL 10 mL	Amount 10 mL 10 mL	91312 91313 Batch	03/13/13 12:32 03/13/13 12:32 Lab Samp Prepared	ss ss ole ID: 44	TAL IRV TAL IRV 40-40367 Matrix: Wat

TestAmerica Job ID: 440-40367-1

Client: Conestoga-Rovers & Associates, Inc. Project/Site: 1601 Webster St., Alameda, CA

Lab Sample ID: 440-40367-6

Lab Sample ID: 440-40367-7

Lab Sample ID: 440-40367-8

Lab Sample ID: 440-40367-9

Lab Sample ID: 440-40367-10

Matrix: Water

Matrix: Water

Matrix: Water

Matrix: Water

Matrix: Water

Client Sample ID: S-5 Date Collected: 03/05/13 13:06 Date Received: 03/08/13 09:30

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	91247	03/13/13 00:02	LB	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTM S		1	10 mL	10 mL	91248	03/13/13 00:02	LB	TAL IRV

Client Sample ID: S-6

Date Collected: 03/05/13 13:18 Date Received: 03/08/13 09:30

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL -	91247	03/13/13 00:29	LB	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTM S		1	10 mL	10 mL	91248	03/13/13 00:29	LB	TAL IRV

Client Sample ID: S-7

Date Collected: 03/05/13 13:30 Date Received: 03/08/13 09:30

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		2	10 mL	10 mL	91318	03/13/13 11:23	AT	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTM S		2	10 mL	10 mL	91319	03/13/13 11:23	AT	TAL IRV

Client Sample ID: S-8

Date Collected: 03/05/13 13:55 Date Received: 03/08/13 09:30

· · ·	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B	·	10	10 mL	10 mL	91247	03/13/13 01:24	LB	TAL IRV
Total/NA	Anàlysis	8260B/CA_LUFTM S		10	10 mL	10 mL	91248	03/13/13 01:24	LB	TAL IRV

Client Sample ID: S-9

Date Collected: 03/05/13 13:42 Date Received: 03/08/13 09:30

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		2	10 mL	10 mL	91318	03/13/13 12:46	AT	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTM S		2 1	10 mL	10 mL	91319	03/13/13 12:46	AT	TAL IRV

Laboratory References:

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 440-91223/21 Matrix: Water Analysis Batch: 91223							Client Sa	ample ID: Metho Prep Type: T	
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.50		ug/L			03/12/13 22:47	1
Ethylbenzene	ND		0.50		ug/L			03/12/13 22:47	1
Methyl-t-Butyl Ether (MTBE)	· ND		0.50		ug/L			03/12/13 22:47	1
tert-Butyl alcohol (TBA)	ND		10		ug/L			03/12/13 22:47	1
Toluene	ND		0.50		ug/L			03/12/13 22:47	1
Xylenes, Total	, ND		1.0		ug/L			03/12/13 22:47	1
	MB	МВ	· ·						
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		80 - 120			-		03/12/13 22:47	1
Dibromofluoromethane (Surr)	103		80 - 120					03/12/13 22:47	1
Toluene-d8 (Surr)	109		80 - 120					03/12/13 22:47	1

Lab Sample ID: LCS 440-91223/5 Matrix: Water

Analysis Batch: 91223							-	
	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	25.0	22.8		ug/L		91	70 - 120	
Ethylbenzene	25.0	25.2		ug/L		101	75 _ 125	
m,p-Xylene	50.0	50.3		ug/L		101	75 _ 125	
Methyl-t-Butyl Ether (MTBE)	25.0	23.7		ug/L		95	60 - 135	
o-Xylene	25.0	25.2		ug/L		101	75 - 125	
tert-Butyl alcohol (TBA)	125	141	•	ug/L		113	70 - 135	
Toluene	25.0	25.0		ug/L		100	70 - 120	

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	104		80 - 120
Dibromofluoromethane (Surr)	106		80 - 120
Toluene-d8 (Surr)	109		80 - 120

Lab Sample ID: 440-40386-F-1 MS Matrix: Water

Analysis Batch: 91223

Analysis Baten, 01220	0	0	0						~ -	
· .	•	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	ND		25.0	22.5		ug/L		90	65 _ 125	
Ethylbenzene	ND		25.0	24.8		ug/L		99	65 _ 130	
m,p-Xylene	ND		50.0	48.6		ug/L		97	65 - 130	
Methyl-t-Butyl Ether (MTBE)	0.85		25.0	26.2		ug/L		101	55 - 145	
o-Xylene	NÐ		25.0	24.2		ug/L		97	65 _ 125	
tert-Butyl alcohol (TBA)	ND		125	134		ug/L		107	65 - 140	
Toluene	ND		25.0	24.7		ug/L		99	70 - 125	
	MS	MS					• •			
Surrogate	%Recovery	Qualifier	Limits							
4-Bromofluorobenzene (Surr)	106	· · · · · · · · · · · · · · · · · · ·	80 - 120			+				
Dibromofluoromethane (Surr)	111		80 - 120							
Toluene-d8 (Surr)	109		80 - 120							

Client Sample ID: Lab Control Sample Prep Type: Total/NA

Client Sample ID: Matrix Spike Prep Type: Total/NA

Client Sample ID: Method Blank

03/12/13 19:02

03/12/13 19:02

Prep Type: Total/NA

Client Sample ID: Lab Control Sample

%Rec.

Limits

70 - 120

75 _ 125

75 _ 125

60 - 135

75 - 125

70 - 135

70 - 120

D

ug/L

ug/L

%Rec

98

102

99

100

101

118

108

1

Prep Type: Total/NA

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-40386-F Matrix: Water	-1 MSD						Client Sa	ample IC): Matrix Sp Prep T	oike Dup ype: To	
Analysis Batch: 91223	Sample	Sampla	Spike	Men	MSD				%Rec.		RPD
Analyte	•	Qualifier	Added		Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	ND		25.0	23.2		ug/L		93	65 - 125	3	20
Ethylbenzene	ND		25.0	24.7		ug/L		99	65 ₋ 130	0	20
m,p-Xylene	ND		50.0	48.2		ug/L		96	65 - 130	1	25
Methyl-t-Butyl Ether (MTBE)	0.85		25.0	27.0		ug/L		105	55 _ 145	3	25
o-Xylene	ND		25.0	24.4		ug/L		98	65 _ 125	1	20
tert-Butyl alcohol (TBA)	ND		125	141		ug/L		113	65 <u>-</u> 140	5	25
Toluene	ND		25.0	25.3	· · · · · · · · · · · · · · · · · · ·	ug/L		101	70 ₋ 125	3	20
	MSD	MSD									

	1030	11130	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	105		80 - 120
Dibromofluoromethane (Surr)	112		80 - 120
Toluene-d8 (Surr)	109		80 - 120

Lab Sample ID: MB 440-91247/4 Matrix: Water

Analysis Batch: 91247

	MB	мв					· .		
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.50		ug/L			03/12/13 19:02	1
Ethylbenzene	ND		0.50		ug/L			03/12/13 19:02	1
Methyl-t-Butyl Ether (MTBE)	ND		0.50		ug/L			03/12/13 19:02	1
tert-Butyl alcohol (TBA)	ND		10		ug/L			03/12/13 19:02	1
Toluene	ND		0.50		ug/L			03/12/13 19:02	1
Xylenes, Total	ND	an Sanan an	1.0		ug/L			03/12/13 19:02	1
	MB	MB	·						
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		80 - 120					03/12/13 19:02	1

80 - 120

80 - 120

125

25.0

147

26.9

Dibromofluoromethane (Surr)	107
Toluene-d8 (Surr)	110
Lab Sample ID: 1 CS 440 04247/5	

Lab Sample ID: LCS 440-91247/5 Matrix: Water

tert-Butyl alcohol (TBA)

Toluene

Analysis Batch: 91247					
-	Spike	LCS	LCS		
Analyte	Added	Result	Qualifier	Unit	
Benzene	25.0	24.6		[·] ug/L	
Ethylbenzene	25.0	25.5		ug/L	
m,p-Xylene	50.0	49.7		ug/L	
Methyl-t-Butyl Ether (MTBE)	25.0	25.1	· · · · · · · · · · · · · · · · · · ·	ug/L	
o-Xylene	25.0	25.3		ug/L	

107

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	109		80 - 120
Dibromofluoromethane (Surr)	110		80 - 120
Toluene-d8 (Surr)	114		80 - 120

Client Sample ID: Matrix Spike Duplicate

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Type: Total/NA

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-40383-D- Matrix: Water	4 MS							Client Sample ID: Matrix Spike Prep Type: Total/NA			
Analysis Batch: 91247											
	Sample Sa	ample	Spike	MS	MS				%Rec.		
Analyte	Result Qu	ualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Benzene	ND		25.0	20.9		ug/L		83	65 _ 125		
Ethylbenzene	ND		25.0	23.9		ug/L		95	65 ₋ 130		
m,p-Xylene	ND		50.0	47.4		ug/L		95	65 ₋ 130		
Methyl-t-Butyl Ether (MTBE)	ND		25.0	21.3		ug/L		85	55 - 145		
o-Xylene	ND		25.0	23.1		ug/L		93	65 ₋ 125		
tert-Butyl alcohol (TBA)	ND		125	141		ug/L		113	65 - 140		
Toluene	ND		25.0	23.5		ug/L	•	94	70 - 125		
	MS MS	s									

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	110		80 - 120
Dibromofluoromethane (Surr)	107		80 - 120
Toluene-d8 (Surr)	113		80 - 120

Lab Sample ID: 440-40383-D-4 MSD Matrix: Water

Analysis Batch: 91247

Analysis Baton. STEFT												
	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Benzene	ND		25.0	20.9		ug/L		83	65 - 125	0	20	
Ethylbenzene	ND		25.0	22.9		ug/L		92	65 ₋ 130	4	20	
m,p-Xylene	ND		50.0	45.5		ug/L		91	65 _ 130	4	25	
Methyl-t-Butyl Ether (MTBE)	ND		25.0	21.1		ug/L		84	55 _ 145	1	25	
o-Xylene	ND		25.0	23.0		ug/L		92	65 _ 125	1	20	
tert-Butyl alcohol (TBA)	ND	÷	125	. 141		ug/L		113	65 _ 140	0	25	
Toluene	ND		25.0	23.2		ug/L		93	70 _ 125	2	20	

	1100	INSE	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	106		80 - 120
Dibromofluoromethane (Surr)	108		80 - 120
Toluene-d8 (Surr)	110		80 - 120

MSD MSD

Lab Sample ID: MB 440-91312/4 Matrix: Water

Analysis Batch: 91312

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.50		ug/L			03/13/13 09:28	1
Ethylbenzene	ND		0.50		ug/L			03/13/13 09:28	1
Methyl-t-Butyl Ether (MTBE)	ND		0.50		ug/L			03/13/13 09:28	1
tert-Butyl alcohol (TBA)	ND		10		ug/L			03/13/13 09:28	1
Toluene	ND		0.50		ug/L			03/13/13 09:28	1
Xylenes, Total	ND		1.0		ug/L			03/13/13 09:28	1
1,2-Dichloroethane	ND		0.50		ug/L			03/13/13 09:28	1
Ethanol	ND		150		ug/L			03/13/13 09:28	1
1,2-Dibromoethane (EDB)	ND		0.50		ug/L	,		03/13/13 09:28	1

Toluene-d8 (Surr)

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 440-91312/4 Matrix: Water			• •					Client S	ample ID: Met Prep Type	
									Fleb lybe	. IUtai/14/
Analysis Batch: 91312										
		MB MB								
Surrogate	%Reco	very Qualifier	Limits				P	repared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)		111	80 - 120	2			-		03/13/13 09:28	3
Dibromofluoromethane (Surr)	· .	106	80 - 120	2					03/13/13 09:28	3
Toluene-d8 (Surr)	· ·	110	80 - 120) ·					03/13/13 09:28	3
Lab Sample ID: LCS 440-91312/5							Client	Sample	e ID: Lab Contr	ol Sampl
Matrix: Water									Prep Type	-
Analysis Batch: 91312										. rotaint
			Spike	LCS	LCS				%Rec.	
Analyte			Added		Qualifier	Unit	D	%Rec	Limits	
Benzene			25.0	23.2	duamen	ug/L	_ _	93	70 - 120	
Ethylbenzene			25.0	26.8				107	75 - 125	
n,p-Xylene			50.0	20.0 53.2		ug/L		107	75 - 125 75 - 125	
Methyl-t-Butyl Ether (MTBE)						ug/L				
• • • • •	- * 		25.0	23.9		ug/L		96	60 - 135	
o-Xylene			25.0	26.7		ug/L		107	75 - 125	
tert-Butyl alcohol (TBA)			125	146		ug/L		` 117	70 ₋ 135	
Toluene			25.0	25.5		ug/L		102	70 - 120	
1,2-Dichloroethane			25.0	23.8		ug/L		95	60 - 140	
Ethanol	•		250	335		ug/L		134	40 - 155	
1,2-Dibromoethane (EDB)			25.0	27.1		ug/L		108	75 ₋ 125	
	105	LCS					•			
Surrogate	%Recovery		Limits							
4-Bromofluorobenzene (Surr)	109		80 - 120			•				
Dibromofluoromethane (Surr)	109		80 - 120							
	109		80 - 120	•						
Toluene-d8 (Surr)	109		00-120							
Lab Sample ID: 440-40367-3 MS									Client Sam	ple ID: S-
Matrix: Water									Ргер Туре	-
Analysis Batch: 91312									1.06.196	
	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	-	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	ND		25.0	23.3		ug/L		93	65 - 125	
Ethylbenzene	ND		25.0	26.9		ug/L		108	65 _ 130	
m,p-Xylene	ND		50.0	53.9		ug/L		108	65 - 130	
Methyl-t-Butyl Ether (MTBE)	ND		25.0	27.2		ug/L		109	55 ₋ 145	
o-Xylene	ND		25.0							
tert-Butyl alcohol (TBA)				26.6		ug/L		107	65 ₋ 125	
	ND		125	146		ug/L		117	65 - 140	
	ND		25.0	25.6		ug/L		103	70 - 125	
1,2-Dichloroethane	ND		25.0	. 25.6		ug/L		102	60 - 140	
Ethanol	ND		250	323		ug/L		129	40 - 155	
1,2-Dibromoethane (EDB)	ND		25.0	29.1		ug/L		116	70 - 130	
	MS	MS								
Surrogate	%Recovery	Qualifier	Limits							
4-Bromofluorobenzene (Surr)	. 112		80 - 120							
Dibromofluoromethane (Surr)	110		80 - 120							
• •										

80 - 120

110

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-40367-3 Matrix: Water	8 MSD								Client S Prep T	ample II ype: Tot	
Analysis Batch: 91312									· .		
	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	ND	· · · · · · · · · · · · · · · · · · ·	25.0	24.0		ug/L		96	65 - 125	3	20
Ethylbenzene	ND		25.0	28.0		ug/L		112	65 _ 130	4	20
m,p-Xylene	ND		50.0	55.6		ug/L		111	65 _ 130	3	25
Methyl-t-Butyl Ether (MTBE)	ND		25.0	27.1		ug/L		108	55 - 145	0	25
o-Xylene	ND		25.0	28.1		ug/L		112	65 - 125	5	20
tert-Butyl alcohol (TBA)	ND		125	154		ug/L		123	65 - 140	5	25
Toluene	. ND		25.0	26.5		ug/L		106	70 - 125	4	20
1,2-Dichloroethane	ND		25.0	26.0		ug/Ŀ		104	60 - 140	1	20
Ethanol	ND		250	347		ug/L		139	40 - 155	7	30
1,2-Dibromoethane (EDB)	ND		25.0	29.2		ug/L		117	70 - 130	0	25
	MSD	MSD									
Surrogate	%Recovery	Qualifier	Limits								

12	80 - 120
09	80 - 120
10	80 - 120
	09

Lab Sample ID: MB 440-91318/5 Matrix: Water

Analysis Batch: 91318

······ · ·····························									
	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.50		ug/L			03/13/13 09:46	1
Ethylbenzene	ND		0.50		ug/L		2 ¹	03/13/13 09:46	1
Methyl-t-Butyl Ether (MTBE)	ND		0.50		ug/L			03/13/13 09:46	. 1
tert-Butyl alcohol (TBA)	ND		10		ug/L			03/13/13 09:46	1
Toluene	ND		0.50		ug/L			03/13/13 09:46	· 1
Xylenes, Total	ND		1.0		ug/L			03/13/13 09:46	1
	МВ	МВ							
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	. 95		80 - 120					03/13/13 09:46	1

	4-Bromofluorobenzene (Surr)	95	80 - 120	•	
	Dibromofluoromethane (Surr)	95	80 - 120		
	Toluene-d8 (Surr)	102	80 - 120		
1	-				

Lab Sample ID: LCS 440-91318/6 Matrix: Water

Analysis Batch: 91318

Client Sample ID: Lab Control Sample Prep Type: Total/NA

03/13/13 09:46

03/13/13 09:46

1

1

Client Sample ID: Method Blank

Prep Type: Total/NA

	Spike	LCS	LCS				%Rec.	·.
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	25.0	22.7		ug/L		91	70 - 120	
Ethylbenzene	25.0	24.9		ug/L		100	75 ₋ 125	
m,p-Xylene	50.0	49.4		ug/L		99	75 - 125	
Methyl-t-Butyl Ether (MTBE)	25.0	23.4		ug/L		94	60 - 135	
o-Xylene	25.0	25.2		ug/L		101	75 - 125	
tert-Butyl alcohol (TBA)	125	124		ug/L		99	70 - 135	
Toluene	25.0	24.0		ug/L		96	70 - 120	•

Toluene-d8 (Surr)

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-91318/6 Matrix: Water							Client	Sample	ID: Lab Co Prep T	ype: Tota	-
Analysis Batch: 91318										,	
	1.00	1.00									
O		LCS									
Surrogate	%Recovery	Qualifier	Limits								
4-Bromofluorobenzene (Surr)	. 98		80 <u>-</u> 120								
Dibromofluoromethane (Surr)	92		80 - 120								
Toluene-d8 (Surr)	103		80 - 120								
Lab Sample ID: 440-40367-8 MS									Client S	ample IC) S-
Matrix: Water										ype: Tota	
Analysis Batch: 91318									Терт	ype. iou	
Analysis Baten, 91010	Sample	Sample	Spike	MS	MS				%Rec.		
Analyte		Qualifier	Added		Qualifier	Unit	D	%Rec	Limits		
Benzene	120		50.0	157		ug/L	<u> </u>	72	65 - 125	<u> </u>	
Ethylbenzene	6.1		50.0	57.6		ug/L		103	65 - 130		
m,p-Xylene	8.5		100	112		ug/L		103	65 - 130		
Methyl-t-Butyl Ether (MTBE)	ND		50.0	49.3		ug/L		99	55 ₋ 145		
o-Xylene	1.6		50.0	53.9		ug/L	4	104	65 - 125		
tert-Butyl alcohol (TBA)	ND		250	292		ug/L		109	65 <u>-</u> 140		
Toluene	6.2		50.0	56.4		ug/L		100	70 - 125		
Toldene	0.2		00.0	00.4		ug/L		100	10-120		
	MS	MS									
Surrogate	%Recovery	Qualifier	Limits								
4-Bromofluorobenzene (Surr)	95		80 - 120								
Dibromofluoromethane (Surr)	85		80 - 120								
Toluene-d8 (Surr)	103		80 - 120								
_ Lab Sample ID: 440-40367-8 MS	D							÷.,	Client S	ample IE): S-
Matrix: Water	-									ype: Tot	
Analysis Batch: 91318										,	
· ······ , · · · · · · · · · · · · · · · · · · ·	Sample	Sample	Spike	MSD	MSD				%Rec.		RP
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Lim
Benzene	120	·····	50.0	159		ug/L	· · · ·	76	65 - 125	1	2
Ethylbenzene	. 6.1		50.0	55.9		ug/L		100	65 - 130	3	2
m,p-Xylene	8.5		100	108		ug/L		100	65 _ 130	3	2
Methyl-t-Butyl Ether (MTBE)	ND		50.0	47.1		ug/L		94	55 _ 145	5.	2
- Wide -								101	05 405	3	2
o-Xylene	1.6	•	50.0	52.4		ug/L		101	65 ₋ 125	5	
	1.6 ND	·	50.0 250	52.4 277		-		103	65 ₋ 125 65 <u>-</u> 140	· 5	
tert-Butyl alcohol (TBA)		• • • • • • • • • • • • • • •				ug/L ug/L					2
	ND 6.2		250	277		ug/L		103	65 ₋ 140	5	2
tert-Butyl alcohol (TBA) Toluene	ND 6.2 <i>MSD</i>	MSD	250 50.0	277		ug/L		103	65 ₋ 140	5	2
tert-Butyl alcohol (TBA) Toluene Surrogate	ND 6.2 <i>MSD</i> %Recovery	MSD Qualifier	250 50.0 <i>Limits</i>	277		ug/L		103	65 ₋ 140	5	2
tert-Butyl alcohol (TBA) Toluene	ND 6.2 <i>MSD</i>	MSD Qualifier	250 50.0	277		ug/L		103	65 ₋ 140	5	2

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80 - 120

104

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 440-91224/ Matrix: Water	21						•				Client S	Sample ID: Prep T	Method Type: To	
Analysis Batch: 91224												1100	J po. 10	
		мв мв												
Analyte		sult Qua	lifier	RL		MDL	Unit		D	·P	repared	Analyz	red	Dil Fac
Volatile Fuel Hydrocarbons (C4-C12)		ND		50			ug/L		,-			03/12/13		
		мв мв					Ū							
Surrogate	%Recov		alifier	Limits						D	roporod	Analum	- ad	Dil Fa
Dibromofluoromethane (Surr)		103	miler	80 - 120					-	FI	repared	Analyz 03/12/13		DIIFa
4-Bromofluorobenzene (Surr)		110		80 - 120					•.			03/12/13		
Toluene-d8 (Surr)		109		80 - 120						\$		03/12/13		
												00,1210	22.47	
Lab Sample ID: LCS 440-91224	1/6								Cl	ient	Sample	e ID: Lab Co	ontrol S	Sampl
Matrix: Water											•		Type: To	-
Analysis Batch: 91224														
-				Spike	LCS	LCS						%Rec.		
Analyte				Added	Result	Qual	ifier	Unit		D	%Rec	Limits		
Volatile Fuel Hydrocarbons				500	497			ug/L			99	55 - 130		
(C4-C12)														
	LCS	LCS												
Surrogate	%Recovery	Qualifier		Limits										
Dibromofluoromethane (Surr)	102			80 - 120										
	111			80 - 120										
4-Bromofluorobenzene (Surr)				00-120										
Toluene-d8 (Surr) Lab Sample ID: 440-40386-F-1	109			80 - 120							Client	t Sample ID		-
^{Toluene-d8} (Surr) Lab Sample ID: 440-40386-F-1 Matrix: Water	109	- - -							ч. ^с		Client		: Matrix Type: To	-
4-Bromofluorobenzene (Surr) Toluene-d8 (Surr) Lab Sample ID: 440-40386-F-1 Matrix: Water Analysis Batch: 91224	109	Sample			MS	MS					Client			-
Toluene-d8 (Surr) Lab Sample ID: 440-40386-F-1 Matrix: Water Analysis Batch: 91224 Analyte	109 MS Sample Result	•		80 - 120 Spike Added	Result		ifier	Unit		D	%Rec	Prep 1 %Rec. Limits		-
Toluene-d8 (Surr) Lab Sample ID: 440-40386-F-1 Matrix: Water Analysis Batch: 91224 Analyte Volatile Fuel Hydrocarbons	109 MS Sample	•		80 - 120 Spike			ifier	Unit ug/L		<u>D</u>		Prep T %Rec.		-
Toluene-d8 (Surr) Lab Sample ID: 440-40386-F-1 Matrix: Water Analysis Batch: 91224 Analyte Volatile Fuel Hydrocarbons	109 MS Sample Result ND	Qualifier		80 - 120 Spike Added	Result		ifier			<u>D</u>	%Rec	Prep 1 %Rec. Limits		-
Toluene-d8 (Surr) Lab Sample ID: 440-40386-F-1 Matrix: Water Analysis Batch: 91224 Analyte Volatile Fuel Hydrocarbons (C4-C12)	109 MS Sample Result ND	Qualifier MS		80 - 120 Spike Added 1730	Result		ifier			<u>D</u>	%Rec	Prep 1 %Rec. Limits		-
Toluene-d8 (Surr) Lab Sample ID: 440-40386-F-1 Matrix: Water Analysis Batch: 91224 Analyte Volatile Fuel Hydrocarbons (C4-C12) Surrogate	109 MS Sample Result ND MS %Recovery	Qualifier MS		80 - 120 Spike Added 1730	Result		ifier			<u>D</u>	%Rec	Prep 1 %Rec. Limits		-
Toluene-d8 (Surr) Lab Sample ID: 440-40386-F-1 Matrix: Water Analysis Batch: 91224 Analyte Volatile Fuel Hydrocarbons (C4-C12) Surrogate Dibromofluoromethane (Surr)	109 MS Sample Result ND MS %Recovery 111	Qualifier MS		80 - 120 Spike Added 1730 Limits 80 - 120	Result		ifier			<u>D</u>	%Rec	Prep 1 %Rec. Limits		-
Toluene-d8 (Surr) Lab Sample ID: 440-40386-F-1 Matrix: Water Analysis Batch: 91224 Analyte Volatile Fuel Hydrocarbons (C4-C12) Surrogate Dibromofluoromethane (Surr) 4-Bromofluorobenzene (Surr)	109 MS Sample Result ND MS %Recovery 111 106	Qualifier MS		80 - 120 Spike Added 1730 Limits 80 - 120 80 - 120	Result		ifier				%Rec	Prep 1 %Rec. Limits		-
Toluene-d8 (Surr) Lab Sample ID: 440-40386-F-1 Matrix: Water Analysis Batch: 91224 Analyte Volatile Fuel Hydrocarbons (C4-C12) Surrogate Dibromofluoromethane (Surr) 4-Bromofluorobenzene (Surr)	109 MS Sample Result ND MS %Recovery 111	Qualifier MS	· · · · · · · · · · · · · · · · · · ·	80 - 120 Spike Added 1730 Limits 80 - 120	Result		ifier			<u>D</u>	%Rec	Prep 1 %Rec. Limits		-
Toluene-d8 (Surr) Lab Sample ID: 440-40386-F-1 Matrix: Water Analysis Batch: 91224 Analyte Volatile Fuel Hydrocarbons (C4-C12) Surrogate Dibromofluoromethane (Surr) 4-Bromofluorobenzene (Surr) Toluene-d8 (Surr)	109 MS Sample Result ND MS %Recovery 111 106 109	Qualifier MS		80 - 120 Spike Added 1730 Limits 80 - 120 80 - 120	Result		ifier		Clien		%Rec 78	Prep 7 %Rec. Limits 50 - 145	Гуре: То	otal/N
Toluene-d8 (Surr) Lab Sample ID: 440-40386-F-1 Matrix: Water Analysis Batch: 91224 Analyte Volatile Fuel Hydrocarbons (C4-C12) Surrogate Dibromofluoromethane (Surr) 4-Bromofluorobenzene (Surr) Toluene-d8 (Surr) Lab Sample ID: 440-40386-F-1	109 MS Sample Result ND MS %Recovery 111 106 109	Qualifier MS		80 - 120 Spike Added 1730 Limits 80 - 120 80 - 120	Result		ifier		Clien		%Rec 78	Prep 7 %Rec. Limits 50 - 145	Type: To	otal/N/
Toluene-d8 (Surr) Lab Sample ID: 440-40386-F-1 Matrix: Water Analysis Batch: 91224 Analyte Volatile Fuel Hydrocarbons (C4-C12) Surrogate Dibromofluoromethane (Surr) 4-Bromofluorobenzene (Surr) Toluene-d8 (Surr) Lab Sample ID: 440-40386-F-1 Matrix: Water	109 MS Sample Result ND MS %Recovery 111 106 109	Qualifier MS	· ·	80 - 120 Spike Added 1730 Limits 80 - 120 80 - 120	Result		ifier		Clien		%Rec 78	Prep 7 %Rec. Limits 50 - 145	Гуре: То	otal/N/
Toluene-d8 (Surr) Lab Sample ID: 440-40386-F-1 Matrix: Water Analysis Batch: 91224 Analyte Volatile Fuel Hydrocarbons (C4-C12) Surrogate Dibromofluoromethane (Surr) 4-Bromofluorobenzene (Surr) Toluene-d8 (Surr) Lab Sample ID: 440-40386-F-1 Matrix: Water	109 MS Sample Result ND MS %Recovery 111 106 109	Qualifier MS Q <i>ualifier</i>	· · ·	80 - 120 Spike Added 1730 Limits 80 - 120 80 - 120	Result 1350				Clien		%Rec 78	Prep 7 %Rec. Limits 50 - 145	Type: To	uplicat otal/N/
Toluene-d8 (Surr) Lab Sample ID: 440-40386-F-1 Matrix: Water Analysis Batch: 91224 Analyte Volatile Fuel Hydrocarbons (C4-C12) Surrogate Dibromofluoromethane (Surr) 4-Bromofluorobenzene (Surr) Toluene-d8 (Surr) Lab Sample ID: 440-40386-F-1 Matrix: Water Analysis Batch: 91224	109 MS Sample Result ND MS %Recovery 111 106 109 MSD	Qualifier MS Qualifier Sample	· · · · · · · · · · · · · · · · · · ·	80 - 120 Spike Added 1730 Limits 80 - 120 80 - 120 80 - 120	Result 1350	Qual			Clien		%Rec 78	Prep 7 %Rec. Limits 50 - 145 D: Matrix Sj Prep 7	Type: To	uplicat otal/NA RP
Toluene-d8 (Surr) Lab Sample ID: 440-40386-F-1 Matrix: Water Analysis Batch: 91224 Analyte Volatile Fuel Hydrocarbons (C4-C12) Surrogate Dibromofluoromethane (Surr) 4-Bromofluorobenzene (Surr) Toluene-d8 (Surr) Lab Sample ID: 440-40386-F-1 Matrix: Water Analysis Batch: 91224 Analyte Volatile Fuel Hydrocarbons	109 MS Sample Result ND MS %Recovery 111 106 109 MSD Sample	Qualifier MS Qualifier Sample	· · ·	80 - 120 Spike Added 1730 Limits 80 - 120 80 - 120 80 - 120 80 - 120	Result 1350	Qual MSD Qual		ug/L	Clien	– nt Sa	%Rec 78 ample II	Prep 7 %Rec. Limits 50 - 145 D: Matrix Sp Prep 7 %Rec.	Гуре: То pike Du Гуре: То	uplicat otal/N/ otal/N/ RP Lim
Toluene-d8 (Surr) Lab Sample ID: 440-40386-F-1 Matrix: Water Analysis Batch: 91224 Analyte Volatile Fuel Hydrocarbons (C4-C12) Surrogate Dibromofluoromethane (Surr) 4-Bromofluorobenzene (Surr) Toluene-d8 (Surr) Lab Sample ID: 440-40386-F-1 Matrix: Water Analysis Batch: 91224 Analyte Volatile Fuel Hydrocarbons	109 MS Sample Result ND MS %Recovery 111 106 109 MSD Sample Result ND	Qualifier MS Qualifier Sample Qualifier	· · · · · · · · · · · · · · · · · · ·	80 - 120 Spike Added 1730 Limits 80 - 120 80 - 120 80 - 120 80 - 120	Result 1350 MSD Result	Qual MSD Qual		ug/L Unit	Clien	– nt Sa	%Rec 78 ample II	Prep 7 %Rec. Limits 50 - 145 D: Matrix Sp Prep 7 %Rec. Limits	pike Du Fype: To RPD	uplicat otal/N/ otal/N/ RP Lim
Toluene-d8 (Surr) Lab Sample ID: 440-40386-F-1 Matrix: Water Analysis Batch: 91224 Analyte Volatile Fuel Hydrocarbons (C4-C12) Surrogate Dibromofluoromethane (Surr) 4-Bromofluorobenzene (Surr) Toluene-d8 (Surr) Lab Sample ID: 440-40386-F-1 Matrix: Water Analysis Batch: 91224 Analyte Volatile Fuel Hydrocarbons (C4-C12)	109 MS Sample Result ND MS %Recovery 111 106 109 MSD Sample Result ND	Qualifier MS Qualifier Qualifier Qualifier	· ·	Spike Added 1730 Limits 80 - 120 80 - 120 80 - 120 80 - 120 80 - 120 80 - 120 1730	Result 1350 MSD Result	Qual MSD Qual		ug/L Unit	Clien	– nt Sa	%Rec 78 ample II	Prep 7 %Rec. Limits 50 - 145 D: Matrix Sp Prep 7 %Rec. Limits	pike Du Fype: To RPD	uplicat otal/NA otal/NA RPI Lim
Toluene-d8 (Surr) Lab Sample ID: 440-40386-F-1 Matrix: Water Analysis Batch: 91224 Analyte Volatile Fuel Hydrocarbons (C4-C12) Surrogate Dibromofluoromethane (Surr) 4-Bromofluorobenzene (Surr) Toluene-d8 (Surr) Lab Sample ID: 440-40386-F-1 Matrix: Water Analysis Batch: 91224 Analyte Volatile Fuel Hydrocarbons (C4-C12) Surrogate Surrogate	109 MS Sample Result ND MS %Recovery 111 106 109 MSD Sample Result ND %Recovery	Qualifier MS Qualifier Qualifier Qualifier	· · · · · · · · · · · · · · · · · · ·	80 - 120 Spike Added 1730 Limits 80 - 120 80 - 120 80 - 120 80 - 120 80 - 120 80 - 120 80 - 120 80 - 120 Limits 1730 Limits	Result 1350 MSD Result	Qual MSD Qual		ug/L Unit	Clien	– nt Sa	%Rec 78 ample II	Prep 7 %Rec. Limits 50 - 145 D: Matrix Sp Prep 7 %Rec. Limits	pike Du Fype: To RPD	uplicato otal/NA otal/NA RPI Limi
^{Toluene-d8} (Surr) Lab Sample ID: 440-40386-F-1 Matrix: Water	109 MS Sample Result ND MS %Recovery 111 106 109 MSD Sample Result ND	Qualifier MS Qualifier Qualifier Qualifier		Spike Added 1730 Limits 80 - 120 80 - 120 80 - 120 80 - 120 80 - 120 80 - 120 1730	Result 1350 MSD Result	Qual MSD Qual		ug/L Unit	Clien	– nt Sa	%Rec 78 ample II	Prep 7 %Rec. Limits 50 - 145 D: Matrix Sp Prep 7 %Rec. Limits	pike Du Fype: To RPD	uplicate otal/NA otal/NA RPI Limi

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 440-91248 Matrix: Water	3/4							1	Client S	ample ID: Meth Prep Type:	
Analysis Batch: 91248											
		MB MB									
Analyte	Re	sult Qualifier	RL		MDL Unit			Pr	repared	Analyzed	Dil F
Volatile Fuel Hydrocarbons (C4-C12)		ND	50		ug/L					03/12/13 19:02	
		MB MB									
Surrogate	%Reco	very Qualifier	Limits				_	Pi	repared	Analyzed	Dil F
Dibromofluoromethane (Surr)	-	107	80 - 120							03/12/13 19:02	2
4-Bromofluorobenzene (Surr)		112	80 - 120							03/12/13 19:02	
Toluene-d8 (Surr)		110	80 - 120							03/12/13 19:02	2
Lab Sample ID: LCS 440-9124	18/6						Cli	ient	Sample	e ID: Lab Contro	ol Samp
Matrix: Water										Ргер Туре	: Total/N
Analysis Batch: 91248											
			Spike	LCS	LCS					%Rec.	
Analyte			Added		Qualifier	Unit		D	%Rec	Limits	
Volatile Fuel Hydrocarbons (C4-C12)			500	478		ug/L			. 96	55 ₋ 130	
	LCS	LCS									
Surrogate	%Recovery	Qualifier	Limits			·					
Dibromofluoromethane (Surr)	108		80 - 120								
4-Bromofluorobenzene (Surr)	111		80 - 120								
Toluono de (Curri	111		80 - 120								
Lab Sample ID: 440-40383-D-			00 - 120						Client	Sample ID: Ma Prep Type	-
Matrix: Water		Sample	Spike	MS	MS				Client	Sample ID: Ma Prep Type %Rec.	-
Lab Sample ID: 440-40383-D- Matrix: Water Analysis Batch: 91248	4 MS Sample	Sample Qualifier			MS Qualifier	Unit		D	Client %Rec	Ргер Туре	-
Lab Sample ID: 440-40383-D- Matrix: Water Analysis Batch: 91248 ^{Analyte}	4 MS Sample	-,	Spike			Unit ug/L		D		Prep Type %Rec.	-
Lab Sample ID: 440-40383-D- Matrix: Water Analysis Batch: 91248 Analyte Volatile Fuel Hydrocarbons	4 MS Sample Result	Qualifier	Spike Added	Result				D	%Rec	Prep Type %Rec. Limits	-
Lab Sample ID: 440-40383-D- Matrix: Water Analysis Batch: 91248 Analyte Volatile Fuel Hydrocarbons	4 MS Sample Result ND	Qualifier	Spike Added	Result				D	%Rec	Prep Type %Rec. Limits	-
Lab Sample ID: 440-40383-D- Matrix: Water Analysis Batch: 91248 Analyte Volatile Fuel Hydrocarbons (C4-C12) Surrogate	4 MS Sample Result ND MS	Qualifier	Spike Added 1730	Result			- - - -	D	%Rec	Prep Type %Rec. Limits	-
Lab Sample ID: 440-40383-D- Matrix: Water Analysis Batch: 91248 Analyte Volatile Fuel Hydrocarbons (C4-C12)	4 MS Sample Result ND MS %Recovery	Qualifier	Spike Added 1730 Limits	Result				D	%Rec	Prep Type %Rec. Limits	-
Lab Sample ID: 440-40383-D- Matrix: Water Analysis Batch: 91248 Analyte Volatile Fuel Hydrocarbons (C4-C12) Surrogate Dibromofluoromethane (Surr) 4-Bromofluorobenzene (Surr) Toluene-d8 (Surr)	4 MS Sample Result ND MS %Recovery 107	Qualifier	Spike Added 1730 <i>Limits</i> 80 - 120	Result			· · · · · · · · · · · · · · · · · · ·	D	%Rec	Prep Type %Rec. Limits	-
Lab Sample ID: 440-40383-D- Matrix: Water Analysis Batch: 91248 Analyte Volatile Fuel Hydrocarbons (C4-C12) Surrogate Dibromofluoromethane (Surr) 4-Bromofluorobenzene (Surr) Toluene-d8 (Surr) Lab Sample ID: 440-40383-D-	4 MS Sample Result ND MS %Recovery 107 110 113	Qualifier	Spike Added 1730 <u>Limits</u> 80 - 120 80 - 120	Result			Clier		%Rec 53	Prep Type %Rec. Limits 50 - 145 D: Matrix Spike	: Total/N
Lab Sample ID: 440-40383-D- Matrix: Water Analysis Batch: 91248 Analyte Volatile Fuel Hydrocarbons (C4-C12) Surrogate Dibromofluoromethane (Surr) 4-Bromofluorobenzene (Surr) Toluene-d8 (Surr) Lab Sample ID: 440-40383-D- Matrix: Water	4 MS Sample Result ND MS %Recovery 107 110 113	Qualifier	Spike Added 1730 <u>Limits</u> 80 - 120 80 - 120	Result			Clier		%Rec 53	Prep Type %Rec. Limits 50 - 145	: Total/N
Lab Sample ID: 440-40383-D- Matrix: Water Analysis Batch: 91248 Analyte Volatile Fuel Hydrocarbons (C4-C12) Surrogate Dibromofluoromethane (Surr) 4-Bromofluorobenzene (Surr) Toluene-d8 (Surr) Lab Sample ID: 440-40383-D-	4 MS Sample Result ND MS %Recovery 107 110 113	Qualifier MS Qualifier	Spike Added 1730 <u>Limits</u> 80 - 120 80 - 120	Result 964			Clien		%Rec 53	Prep Type %Rec. Limits 50 - 145 D: Matrix Spike	: Total/N
Lab Sample ID: 440-40383-D- Matrix: Water Analysis Batch: 91248 Analyte Volatile Fuel Hydrocarbons (C4-C12) Surrogate Dibromofluoromethane (Surr) 4-Bromofluorobenzene (Surr) Toluene-d8 (Surr) Lab Sample ID: 440-40383-D- Matrix: Water Analysis Batch: 91248	4 MS Sample Result ND MS %Recovery 107 110 113 4 MSD Sample	Qualifier MS Qualifier	Spike Added 1730 Limits 80 - 120 80 - 120 80 - 120	Result 964 MSD	Qualifier		Clier		%Rec 53	Prep Type %Rec. Limits 50 - 145 D: Matrix Spike Prep Type %Rec.	Duplica
Lab Sample ID: 440-40383-D- Matrix: Water Analysis Batch: 91248 Analyte Volatile Fuel Hydrocarbons (C4-C12) Surrogate Dibromofluoromethane (Surr) 4-Bromofluorobenzene (Surr) Toluene-d8 (Surr) Lab Sample ID: 440-40383-D- Matrix: Water Analysis Batch: 91248 Analyte Volatile Fuel Hydrocarbons	4 MS Sample Result ND MS %Recovery 107 110 113 4 MSD Sample	Qualifier	Spike Added 1730 Limits 80 - 120 80 - 120 80 - 120 80 - 120 Spike	Result 964 MSD	Qualifier	- ug/L	Clier	_ nt Sa	%Rec 53	Prep Type %Rec. Limits 50 - 145 D: Matrix Spike Prep Type %Rec.	Duplica : Total/N
Lab Sample ID: 440-40383-D- Matrix: Water Analysis Batch: 91248 Analyte Volatile Fuel Hydrocarbons (C4-C12) Surrogate Dibromofluoromethane (Surr) 4-Bromofluorobenzene (Surr) Toluene-d8 (Surr) Lab Sample ID: 440-40383-D- Matrix: Water Analysis Batch: 91248 Analyte Volatile Fuel Hydrocarbons	4 MS Sample Result ND MS %Recovery 107 110 113 4 MSD Sample Result ND	Qualifier	Spike Added 1730 Limits 80 - 120 80 - 120 80 - 120 80 - 120 Spike Added	Result 964 MSD Result	Qualifier	Unit	Clien	_ nt Sa	%Rec 53	Prep Type %Rec. Limits 50 - 145 D: Matrix Spike Prep Type %Rec. Limits F	Duplica : Total/N : Total/N R RPD Lin
Lab Sample ID: 440-40383-D- Matrix: Water Analysis Batch: 91248 Analyte Volatile Fuel Hydrocarbons (C4-C12) Surrogate Dibromofluoromethane (Surr) 4-Bromofluorobenzene (Surr) Toluene-d8 (Surr) Lab Sample ID: 440-40383-D- Matrix: Water	4 MS Sample Result ND MS %Recovery 107 110 113 4 MSD Sample Result ND	Qualifier MS Qualifier Sample Qualifier MSD	Spike Added 1730 Limits 80 - 120 80 - 120 80 - 120 80 - 120 Spike Added	Result 964 MSD Result	Qualifier	Unit	Clien	_ nt Sa	%Rec 53	Prep Type %Rec. Limits 50 - 145 D: Matrix Spike Prep Type %Rec. Limits F	Duplica : Total/N : Total/N R RPD Lin
Lab Sample ID: 440-40383-D- Matrix: Water Analysis Batch: 91248 Analyte Volatile Fuel Hydrocarbons (C4-C12) Surrogate Dibromofluoromethane (Surr) 4-Bromofluorobenzene (Surr) Toluene-d8 (Surr) Lab Sample ID: 440-40383-D- Matrix: Water Analysis Batch: 91248 Analyte Volatile Fuel Hydrocarbons (C4-C12)	4 MS Sample Result ND MS %Recovery 107 110 113 4 MSD Sample Result ND	Qualifier MS Qualifier Sample Qualifier MSD	Spike Added 1730 Limits 80 - 120 80 - 120 80 - 120 Spike Added 1730	Result 964 MSD Result	Qualifier	Unit	Clien	_ nt Sa	%Rec 53	Prep Type %Rec. Limits 50 - 145 D: Matrix Spike Prep Type %Rec. Limits F	Duplica : Total/N : Total/N R RPD Lin
Lab Sample ID: 440-40383-D- Matrix: Water Analysis Batch: 91248 Analyte Volatile Fuel Hydrocarbons (C4-C12) Surrogate Dibromofluoromethane (Surr) 4-Bromofluorobenzene (Surr) 4-Bromofluorobenzene (Surr) Toluene-d8 (Surr) Lab Sample ID: 440-40383-D- Matrix: Water Analysis Batch: 91248 Analyte Volatile Fuel Hydrocarbons (C4-C12) Surrogate	4 MS Sample Result ND MS %Recovery 107 110 113 4 MSD Sample Result ND MSD %Recovery	Qualifier MS Qualifier Sample Qualifier MSD	Spike Added 1730 Limits 80 - 120 80 - 120 80 - 120 80 - 120 80 - 120 1730 Limits 1730	Result 964 MSD Result	Qualifier	Unit	Clier	_ nt Sa	%Rec 53	Prep Type %Rec. Limits 50 - 145 D: Matrix Spike Prep Type %Rec. Limits F	Duplica : Total/N : Total/N R RPD Lin

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 440-91313/4 Matrix: Water						•		Client S	Sample ID: Me Prep Typ	ethod Blani be: Total/N/
Analysis Batch: 91313										
		MB MB								
		ult Qualifier	R		MDL Un		D F	Prepared	Analyzed	
Volatile Fuel Hydrocarbons (C4-C12)		ND	5	0 .	ug/	L .			03/13/13 09:	28
	l	MB MB								
Surrogate	%Recov	ery Qualifier	Limits				F	Prepared	Analyzed	Dil Fa
Dibromofluoromethane (Surr)	1	106	80 - 120	_					03/13/13 09	28
4-Bromofluorobenzene (Surr)		111	80 - 120						03/13/13 09	28
Toluene-d8 (Surr)		110	80 - 120						03/13/13 09	28
Lab Sample ID: LCS 440-91313/6		н. Н					Clien	t Samnle	e ID: Lab Con	trol Samnl
Matrix: Water							Chen	t Sample		be: Total/N
Analysis Batch: 91313									Thep Typ	
			Spike	LCS	LCS				%Rec.	
Analyte			Added	Result	Qualifie	r Unit	D	%Rec	Limits	
Volatile Fuel Hydrocarbons	<u> </u>	<u> </u>	500	522		ug/L	·····	104	55 _ 130	<u></u>
(C4-C12)										
	LCS I	LCS								
Surrogate	%Recovery	Qualifier	Limits							
Dibromofluoromethane (Surr)	110		80 - 120							
4-Bromofluorobenzene (Surr)	115		80 - 120							
Toluene-d8 (Surr)	109		80 - 120				<i>.</i>			
Lab Sample ID: 440-40367-3 MS Matrix: Water Analysis Batch: 91313										nple ID: S- pe: Total/N
Analysis Baten, Storto	Sample S	Sample	Spike	MS	MS				%Rec.	
Analyte	Result (Qualifier	Added	Result	Qualifie	r Unit	D	%Rec	Limits	
Volatile Fuel Hydrocarbons	ND		1730	1480		ug/L		86	50 - 145	
(C4-C12)										
		WS								
-	%Recovery	Qualifier	Limits		•					
Dibromofluoromethane (Surr)	110		80 - 120				•			
4-Bromofluorobenzene (Surr)	112		80 - 120 80 - 120							
Toluene-d8 (Surr)	110		80 - 120							
- Lab Sample ID: 440-40367-3 MSE)								Client Sa	mple ID: S-
Matrix: Water										pe: Total/N
Analysis Batch: 91313										
	Sample 3	-	Spike		MSD				%Rec.	RP
Analyte	Result	Qualifier	Added		Qualifie		D	%Rec	Limits	RPD Lin
Volatile Fuel Hydrocarbons	ND		1730	1490		ug/L		87	50 - 145	1 2
(C4-C12)										
	MSD I									
Surrogate	%Recovery	Qualifier	Limits							
Dibromofluoromethane (Surr)	109		80 - 120							
4-Bromofluorobenzene (Surr)	112		80 - 120							
Toluene-d8 (Surr)	. 110		80 - 120							

QC Sample Results

Client: Conestoga-Rovers & Associates, Inc. Project/Site: 1601 Webster St., Alameda, CA

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 440-91319/ Matrix: Water	5								Client S	ample ID: M Prep Ty		
Analysis Batch: 91319										Fieb i	pe. 10	
Analysis Daten. 91919	· M	BMB										
Analyte		It Qualifier	RL		MDL	Unit		DP	repared	Analyze	ed	Dil Fac
Volatile Fuel Hydrocarbons (C4-C12)			50			ug/L	•		•	03/13/13 0		1
	_	-										
0		B MB								· · ·		
Surrogate Dibromofluoromethane (Surr)	%Recove	ry Qualifier	Limits 80 _ 120					P	repared	Analyze 		Dil Fac
4-Bromofluorobenzene (Surr)		95 95	80 - 120 80 - 120							03/13/13 0		-
Toluene-d8 (Surr)	10		80 - 120 80 - 120							03/13/13 0		
			00 - 120							03/13/13 0	9.40	
Lab Sample ID: LCS 440-91319	/ 7					2		Client	t Sample	e ID: Lab Co	ntrol Sa	ample
Matrix: Water									•	Prep Ty		-
Analysis Batch: 91319											•	
			Spike	LCS	LCS					%Rec.		
Analyte	•		Added	Result	Qua	lifier	Unit	D	%Rec	Limits		
Volatile Fuel Hydrocarbons			500	524			ug/L		105	55 - 130		
(C4-C12)												
	LCS L	cs										
Surrogate	%Recovery Q	ualifier	Limits									
Dibromofluoromethane (Surr)	89		80 - 120									
4-Bromofluorobenzene (Surr)	100		80 - 120					•				
Toluene-d8 (Surr)	106		80 - 120									
	_											
Lab Sample ID: 440-40367-8 MS Matrix: Water	5									Client Sa	-	
Analysis Batch: 91319										Prep	/pe: To	
Analysis Datch. 91319	Sample Sa	ample	Spike	MS	MS					%Rec.		
Analyte	Result Q		Added	Result		lifier	Unit	D	%Rec	Limits		
Volatile Fuel Hydrocarbons	2000		3450	4950			ug/L		87	50 - 145		<i></i>
(C4-C12)			· · · ·				Ū					
	MS M	s										
Surrogate	%Recovery Q	-	Limits									
Dibromofluoromethane (Surr)	85		80 - 120									
4-Bromofluorobenzene (Surr)	95		80 - 120									
Toluene-d8 (Surr)	103		80 - 120									
-												
Lab Sample ID: 440-40367-8 M	SD									Client Sa	ample l	D: S-7
Matrix: Water			•							Prep T	уре: То	tal/NA
Analysis Batch: 91319												
	Sample S		Spike		MSE					%Rec.		RPC
Analyte	Result Q	ualifier	Added	Result		lifier	Unit	D	%Rec	Limits	RPD	Limit
Volatile Fuel Hydrocarbons	2000		3450	4740			ug/L		81	50 - 145	4	20
(C4-C12)												
	MSD M											
Surrogate	%Recovery Q	ualifier	Limits									
Dibromofluoromethane (Surr)	86		80 - 120							÷		
4-Bromofluorobenzene (Surr)	92		80 - 120									
Toluene-d8 (Surr)	104		80 - 120									

QC Association Summary

Client: Conestoga-Rovers & Associates, Inc. Project/Site: 1601 Webster St., Alameda, CA

GC/MS VOA

Analysis Batch: 91223

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-40367-2	S-2	Total/NA	Water	8260B	
440-40386-F-1 MS	Matrix Spike	Total/NA	Water	8260B	
440-40386-F-1 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B	
LCS 440-91223/5	Lab Control Sample	Total/NA	Water	8260B	
MB 440-91223/21	Method Blank	Total/NA	Water	8260B	

Analysis Batch: 91224

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-40367-2	S-2	Total/NA	Water	8260B/CA_LUFT	
				MS	
440-40386-F-1 MS	Matrix Spike	Total/NA	Water	8260B/CA_LUFT	
				MS	
440-40386-F-1 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B/CA_LUFT	
				MS	
LCS 440-91224/6	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT	
				MS	
MB 440-91224/21	Method Blank	Total/NA	Water	8260B/CA_LUFT	
				 MS	

Analysis Batch: 91247

Client Sample ID	Prep Type	Matrix	Method	Prep Batch
S-5	Total/NA	Water	8260B	
S-6	Total/NA	Water	8260B	
S-8	Total/NA	Water	8260B	
Matrix Spike	Total/NA	Water	8260B	
Matrix Spike Duplicate	Total/NA	Water	8260B	
Lab Control Sample	Total/NA	Water	8260B	
Method Blank	Total/NA	Water	8260B	
	S-5 S-6 S-8 Matrix Spike Matrix Spike Duplicate Lab Control Sample	S-5 Total/NA S-6 Total/NA S-8 Total/NA Matrix Spike Total/NA Matrix Spike Duplicate Total/NA Lab Control Sample Total/NA	S-5 Total/NA Water S-6 Total/NA Water S-8 Total/NA Water Matrix Spike Total/NA Water Matrix Spike Duplicate Total/NA Water Lab Control Sample Total/NA Water	S-5Total/NAWater8260BS-6Total/NAWater8260BS-8Total/NAWater8260BMatrix SpikeTotal/NAWater8260BMatrix Spike DuplicateTotal/NAWater8260BLab Control SampleTotal/NAWater8260B

Analysis Batch: 91248

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-40367-6	S-5	Total/NA	Water	8260B/CA_LUFT	
				MS	
440-40367-7	S-6	Total/NA	Water	8260B/CA_LUFT	
				MS	
440-40367-9	S-8	Total/NA	Water	8260B/CA_LUFT	
				MS	
440-40383-D-4 MS	Matrix Spike	Total/NA	Water	8260B/CA_LUFT	
				MS	
440-40383-D-4 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B/CA_LUFT	
				MS	
LCS 440-91248/6	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT	
				MS	
MB 440-91248/4	Method Blank	Total/NA	Water	8260B/CA_LUFT	
				MS	

Analysis Batch: 91312

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method Prep Bat
440-40367-1	TBW-N	Total/NA	Water	8260B
440-40367-3	S-3	Total/NA	Water	8260B
440-40367-3 MS	S-3	Total/NA	Water .	8260B
440-40367-3 MSD	S-3	Total/NA	Water	8260B
440-40367-4	S-4	Total/NA	Water	8260B
440-40367-5	S-4B	Total/NA	Water	8260B

GC/MS VOA (Continued)

Analysis Batch: 91312 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 440-91312/5	Lab Control Sample	Total/NA	Water	8260B	
MB 440-91312/4	Method Blank	Total/NA	Water	8260B	

Analysis Batch: 91313

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method Prep Bat
440-40367-1	TBW-N	Total/NA	Water	8260B/CA_LUFT
				MS
440-40367-3	S-3	Total/NA	Water	8260B/CA_LUFT
	1	• • • • • • • • • • • • • • • • • • •		MS
440-40367-3 MS	S-3	Total/NA	Water	8260B/CA_LUFT
				MS
440-40367-3 MSD	S-3	Total/NA	Water	8260B/CA_LUFT
				MS
440-40367-4	S-4	Total/NA	Water	8260B/CA_LUFT
				MS
440-40367-5	S-4B	Total/NA	Water	8260B/CA_LUFT
				MS
LCS 440-91313/6	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT
				MS
MB 440-91313/4	Method Blank	Total/NA	Water	8260B/CA_LUFT
				MS

Analysis Batch: 91318

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-40367-8	<u></u> <u>S-7</u>	Total/NA	Water	8260B	······
440-40367-8 MS	S-7	Total/NA	Water	8260B	
440-40367-8 MSD	S-7	Total/NA	Water	8260B	
440-40367-10	S-9	Total/NA	Water	8260B	
LCS 440-91318/6	Lab Control Sample	Total/NA	Water	8260B	
MB 440-91318/5	Method Blank	Total/NA	Water	8260B	

Analysis Batch: 91319

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-40367-8	S-7	Total/NA	Water	8260B/CA_LUFT	
				MS	
440-40367-8 MS	S-7	Total/NA	Water	8260B/CA_LUFT	
				MS	
440-40367-8 MSD	S-7	Total/NA	Water	8260B/CA_LUFT	
×		•		MS	
440-40367-10	S-9	Total/NA	Water	8260B/CA_LUFT	
	,			MS	
LCS 440-91319/7	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT	
				MS	
MB 440-91319/5	Method Blank	Total/NA	Water	8260B/CA_LUFT	
				MS	

Definitions/Glossary

Client: Conestoga-Rovers & Associates, Inc. Project/Site: 1601 Webster St., Alameda, CA TestAmerica Job ID: 440-40367-1

Glossary		
Abbreviation	These commonly used abbreviations may or may not be present in this report.	
n	Listed under the "D" column to designate that the result is reported on a dry weight basis	
%R	Percent Recovery	
CNF	Contains no Free Liquid	
DER	Duplicate error ratio (normalized absolute difference)	
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample	
DLC	Decision level concentration	
MDA	Minimum detectable activity	
EDL	Estimated Detection Limit	
MDC	Minimum detectable concentration	
MDL	Method Detection Limit	
ML	Minimum Level (Dioxin)	
ND	Not detected at the reporting limit (or MDL or EDL if shown)	
PQL	Practical Quantitation Limit	
QC	Quality Control	
RER	Relative error ratio	
RL	Reporting Limit or Requested Limit (Radiochemistry)	
RPD	Relative Percent Difference, a measure of the relative difference between two points	
TEF	Toxicity Equivalent Factor (Dioxin)	
TEQ	Toxicity Equivalent Quotient (Dioxin)	

TestAmerica Job ID: 440-40367-1

Laboratory: TestAmerica Irvine

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alaska	State Program	10	CA01531	06-30-13
Arizona	State Program	9	AZ0671	10-13-13
California	LA Cty Sanitation Districts	9	10256	01-31-14
California	NELAP	9	1108CA	01-31-14
California	State Program	9	2706	06-30-14
Guam	State Program	9	Cert. No. 12.002r	03-28-13
Hawaii	State Program	9	N/A	01-31-14
Nevada	State Program	9	CA015312007A	07-31-13
New Mexico	State Program	6	N/A	03-28-13
Northern Mariana Islands	State Program	9	MP0002	03-28-13
Oregon	NELAP	10	4005	09-12-13
USDA	Federal	•	P330-09-00080	06-06-14
USEPA UCMR	Federal		CA01531	01-31-15

LAB (LOCATION)	Shell Oil F	Products Chain Of Custody Rec	ord
	Please Check Appropriate Box:	Print Bill To Contact Name: 4 INCI	
SPL Houston ()		240467 Peter Schaefor 9 7	5 6 4 7 0 1 DATE: 03/05/2013
		PO #	SAP#
			PAGE:
		SITE ADORED3: Street and Gity State	
Blaine Toch Services		1601 Webster St., Alameda C.	A T0600137103
ADDRG00:		GDP DELIVERABLE TO (Name, Company, Office Location): PHONE NO.:	
1680 Rogors Avonue, San Joso, CA PROJECT CONTACT (Hardeogy of PDF Reports);		Brenda Carter, CRA, Emeryville, CA 510-420-3343	ShellEDF@CRAWorld.com 240467-95-12.021 Shell-US-LabDataManagement@CRAworld.com
Lorin King		CAMPLER NAME(G) (Primp:	LAB USE ONLY
TELEPHONE: FAX: Common Commo	lking@blpinetech.com	Gregory Roberts	440-40367
TURNAROUND TIME (CALENDAR DAYS): X STANDARD (14 DAY) S DAYS 3 DAYS 2 DAYS	24 HOURS RESULTS NEEDED ON WEEKEND		STED ANALYSIS
LA - RWQCB REPORT FORMAT		(8280B)	TEMPERATURE ON RECEIPT. C
SPECIAL INSTRUCTIONS OR NOTES:		ие (83 ие	
 Please upload the "CRA EQuIS 4-file EDD" to the CRA Website (http://cralabeddupload.craworld.com/equis/default.aspx) and/or send it to the \$ 	Shell-US-	(8 E	
LabDataManagement@CRAworld.com email folder. 2) Please indicate that y	bu have uploaded		
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Copy final report to Shell,Lab,Billing@craworld.com, ShellEDF@craworld LabDataManagement@CRAworld.com, and pschaefer@CRAWorld.com	1.com,shen-03*		
Email invoice to Shell 1 ab Billing@craworid.com	Matrix Codes - WG (groundwater), WS (surface water),	Ball Ball <th< td=""><td></td></th<>	
	WP (drinking water source), W (Trip or Temp Blank)	Pur EE E E E E E E E E E E E E E E E E E	
SAMPLE ID	PRESERVATIVE	RO, RO, RO, RO, RO, RO, RO, RO, RO, RO,	
CAB PROJECT NUMBER DATE S/.MPLER WELL ID		TPH-GRO, Purgeable (\$260B) TPH-DRO, Extractable (\$01514) BTEX (\$250B) BTEX + MTBE (\$250B) BTEX + MTBE (\$250B) BTEX + ATBE + TBA (\$250B) BTEX + 5 OXYS (\$4TBE, TBA, I ETEE \$250B VOCS Full !1st (\$250B) Single Compound: (\$250B) EDB (\$250B) E1hanol (\$015B)	Container PID Readings or Laboratory Notes
WG-130305-GR1 030513 - GR-TBW-N	MOU WG X 3		
$GR - S^{-2}$	1220 X 3	\times \times	
GR - 5-3	1232 × 3	XXX	
- <u>- G7 - 5-415</u>	1255 X 3		
GR-5-5	1306 X 3	X X	
GR _ S-6	1318 X 3		
- GR - S-7	13.30 × 3		
GR - S - 8	1355 × 3		
GR - S-9	1342 V X 3		Date: Time:
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	1540 1500 2	(sample Custodian)	
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Prolinguished by (Signature) 21, 1 1 2-7-13	Kocewod by: (Signature)		Drate: Tanto:
Provinguiered by Contactor		filled tours	3-08-03 9:30
		adau a da fan en	
			(. 6°° (

RECEIPTION INTERVIEW CONTRACTOR RECEIPTION RECEIPT

Client: Conestoga-Rovers & Associates, Inc.

Login Number: 40367 List Number: 1

Creator: Escalante, Maria

Question	Answer	Comment	
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td></td> <td></td>	N/A		
The cooler's custody seal, if present, is intact.	True		
Sample custody seals, if present, are intact.	True		
The cooler or samples do not appear to have been compromised or tampered with.	True		
Samples were received on ice.	True		
Cooler Temperature is acceptable.	True		
Cooler Temperature is recorded.	True		
COC is present.	True		
COC is filled out in ink and legible.	True		
COC is filled out with all pertinent information.	True		
Is the Field Sampler's name present on COC?	True	GREGORY ROBERTS	
There are no discrepancies between the containers received and the COC.	True		
Samples are received within Holding Time.	True		
Sample containers have legible labels.	True		
Containers are not broken or leaking.	True	r	
Sample collection date/times are provided.	True		•
Appropriate sample containers are used.	True		
Sample bottles are completely filled.	True		
Sample Preservation Verified.	True		
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	ана. 1917 — Аларанан Алар	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True		
Multiphasic samples are not present.	True		
Samples do not require splitting or compositing.	True		
Residual Chlorine Checked.	N/A	· · · · · · · · ·	

Job Number: 440-40367-1

List Source: TestAmerica Irvine

APPENDIX C

TRC – DATA TABLE FOR FORMER 76 STATION NO. 0843

Table 1 Current Groundwater Gauging and Analytical Results Unocal Site 0843 1629 Webster Street, Alameda, California

		TOC	DTW	LPH	GW														
	Date	Elevation	(feet	Thickness	Elevation	TPH-G			Ethyl-	Total									
Well ID	Sampled	(feet MSL)	bTOC)	(feet)	(feet MSL)	8015B	Benzene	Toluene	benzene	Xylenes	MTBE	TBA	TAME	ETBE	DIPE	EDB	EDC	Ethanol	Comments
																		·	
MW-1	3/5/2013	19.13	6.70	0.00	12.43	<50	<0.50	<0.50	<0.50	<1.0	320	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<250	A01
MW-1AR	3/5/2013	19.29	6.92	0.00	12.37	<50	<0.50	<0.50	<0.50	<1.0	4.9	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<250	
MW-1BR	3/5/2013	19.13	6.89	0.00	12.24	<50	<0.50	< 0.50	<0.50	<1.0	2.4	<10	<0.50	< 0.50	< 0.50	< 0.50	< 0.50	<250	
MW-3	3/5/2013	18.05	5.98	0.00	12.07	<50	< 0.50	< 0.50	< 0.50	<1.0	<0.50	<10	<0.50	< 0.50	< 0.50	< 0.50	< 0.50	<250	
MW-4	3/5/2013	18.14	5.88	0.00	12.26	<50	< 0.50	< 0.50	<0.50	<1.0	<0.50	<10	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	<250	
MW-5	3/5/2013	16.45	5.50	0.00	10.95	<50	< 0.50	< 0.50	< 0.50	<1.0	2.6	<10	< 0.50	<0.50	< 0.50	< 0.50	< 0.50	<250	
MW-6	3/5/2013	16.97	5.57	0.00	11.40	<50	<0.50	< 0.50	< 0.50	<1.0	29	<10	<0.50	<0.50	< 0.50	<0.50	<0.50	<250	
MW-7	3/5/2013	17.81	6.02	0.00	11.79	<50	< 0.50	< 0.50	< 0.50	<1.0	2,800	510	2.3	<0.50	<0.50	< 0.50	<0.50	<250	A01
MW-8	3/5/2013	18.13	6.15	0.00	11.98	<50	< 0.50	< 0.50	< 0.50	<1.0	100	<10	<0.50	<0.50	< 0.50	< 0.50	< 0.50	<250	A01
MW-9	3/5/2013	18.75	6.54	0.00	12.21	<50	<0.50	< 0.50	< 0.50	<1.0	60	<10	<0.50	<0.50	< 0.50	<0.50	< 0.50	<250	
MW-10	3/5/2013	18.84	6.64	0.00	12.20	<50	<0.50	< 0.50	< 0.50	<1.0	1.2	· <10	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	<250	
MW-11	3/5/2013	18.72	6.47	0.00	12.25	<50	<0.50	<0.50	<0.50	<1.0	750	180	< 0.50	<0.50	<0.50	<0.50	<0.50	<250	A01

<u>Note</u>

Analytical results given in micrograms per liter (µg/l) unless otherwise noted

Standard Abbreviations

< not detected at or above laboratory detection limit</p>

- μg/l micrograms per liter (approx. equivalent to parts per billion, ppb)
- TOC top of casing (surveyed reference elevation)
- MSL relative to mean sea level
- DTW depth to water
- bTOC below top of casing
- LPH liquid-phase hydrocarbons
- GW groundwater
- TPH-G total petroleum hydrocarbons as gasoline
- MTBE methyl tertiary butyl ether
- TBA tertiary butyl alcohol
- TAME tertiary amyl methyl ether
- ETBE ethyl tertiary butyl ether
- DIPE di-isopropyl ether
- EDB 1,2-dibromoethane
- EDC 1,2-dichloroethane (same as ethylene dichloride)
- 8015B EPA Method 8015B for TPH-G
- 8260B EPA Method 8260B for BTEX/MTBE/Oxygenates
- A01 PQL's and MDL's are raised due to sample dilution.
- PQL practical quantitation limit
- MDL method detection lmit