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Ms. Kit Soo Alameda County Environmental Health 1131 Harbor Parkway, Suite 250 Alameda, CA 94502-6577 Shell Oil Products US DS Soil & Groundwater Focus Delivery Group 20945 S. Wilmington Avenue Carson, CA 90810 Tel (714) 731 1050 Fax (714) 731 1038 Email Andrea.Wing@shell.com Internet http://www.shell.com

RE: 2703 Martin Luther King Jr. Way, Oakland, California PlaNet Site ID USF04645 PlaNet Project ID 27482 ACEH Case No. RO0000145

Dear Ms. Soo:

I am informed and believe that, based on a reasonably diligent inquiry undertaken by AECOM on behalf of Equilon Enterprises LLC dba Shell Oil Products US, the information and/or recommendations contained in the attached document is true, and on that ground I declare under penalty of perjury in accordance with Water Code section 13267 that this statement is true and correct.

As always, please feel free to contact me directly at (714) 731-1050 with any questions or concerns.

Sincerely, Shell Oil Products US

Jule (

Andrea A. Wing Principal Program Manager



AECOM 300 Lakeside Drive Suite 400 Oakland, CA 94612 www.aecom.com 510 893 3600 tel 510 874 3268 fax

July 13, 2017

Kit Soo Alameda County Environmental Health 1131 Harbor Bay Parkway, Suite 250 Alameda, California 94502

Re: First Semiannual 2017 Groundwater Monitoring Report Former Shell Service Station 2703 Martin Luther King Jr. Way, Oakland, California Shell PlaNet Site ID: USF04645 Shell PlaNet Project ID: 27482 Agency No. RO0000145

Dear Ms. Soo:

On behalf of Equilon Enterprises LLC dba Shell Oil Products US, AECOM Technical Services, Inc. is pleased to submit this first semiannual groundwater monitoring report performed during the second quarter of 2017 at the Former Shell Service Station located at 2703 Martin Luther King Jr. Way in Oakland, California.

If you have questions regarding this submittal, please contact Shane Olton at (916) 414-5849 or Shane.Olton@aecom.com.

Sincerely,

Azeemuddin Ahmed Civil Engineer I

Enclosures: Groundwater Monitoring Report

cc: Andrea Wing, Equilon Enterprises LLC dba Shell Oil Products US

Rodney & Janet Kwan, Auto Tech West (site owner), 2703 Martin Luther King Jr. Way, Oakland, CA 94612

Monique Oatis, 670 27th Street, Oakland CA (off-site property owner)

Shane Olton, P.G. Project Manager





First Semiannual 2017 Groundwater Monitoring Report

Former Shell Service Station 2703 Martin Luther King Jr. Way Oakland, California

July 2017



First Semiannual 2017 Groundwater Monitoring Report

Former Shell Service Station 2703 Martin Luther King Jr. Way Oakland California

PlaNet Site ID	USF04645
PlaNet Project ID	27482
Agency No.	RO0000145

Submitted to:

Kit Soo Alameda County Environmental Health 1131 Harbor Bay Parkway, Suite 250 Alameda, California 94502

Submitted by: AECOM Technical Services, Inc. 300 Lakeside Drive, Suite 400 Oakland, California 94612

On Behalf of Equilon Enterprises LLC dba Shell Oil Products US

July 13, 2017

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1 Introduction

AECOM Technical Services, Inc. (AECOM) prepared this report on behalf of Equilon Enterprises LLC dba Shell Oil Products US (Equilon).

1.1 Site Information

Site Name:	Former Shell Service Station
Site Address:	2703 Martin Luther King Jr. Way, Oakland, California
Equilon Environmental Services Program Manager:	Andrea Wing
Consulting Company / Contact Person:	AECOM / Shane Olton
Primary Agency:	Alameda County Department of Environmental Health (ACDEH)

1.2 Site Summary

Frequency of Groundwater Monitoring:	Semiannual
Wells Water Level Gauged:	14
Wells Sampled:	11
Is there any Free Product Present in On-Site Monitoring Wells:	No
Current Remediation Activity:	None, pending approval of Pilot Test Work Plan

2 Site Activities

2.1 Current Activities

On January 19, 2016, ACDEH issued a letter concurring with recommendations in AECOM's December 16, 2015, *Human Health Risk Assessment* and requested a Revised CAP (RCAP) be submitted by April 26, 2016. AECOM submitted a *Revised Corrective Action Plan* recommending a one month pulsed oxygen injection pilot study on May 27, 2016. The RCAP was approved in a letter from the ACDEH dated March 17, 2017, which requested a Pilot Test Design and Work Plan by June 19, 2017. The Pilot Test Work Plan was submitted on June 19, 2017. The March 17, 2017, ACDEH letter also requested resampling results from vapor probes VP-01 and VP-13 and a Data Gap Investigation Work Plan, and Focused Site Conceptual Model (WP/SCM) both due May 17, 2017. Extensions were granted for the vapor resampling results and WP/SCM until August 15, 2017, so that a combined report could be submitted and required additional time to conduct the vapor sampling.

On May 30, 2017, Blaine Tech Services, Inc. (Blaine Tech) of San Jose, California gauged and sampled the wells according to the established monitoring program for this site. Two wells (MW-9 and MW-12) were unable to be accessed during this sampling event. TestAmerica Laboratories, Inc. of Irvine, California, a certified California laboratory, completed the analyses of the groundwater samples.

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

2.2 Current Findings

Groundwater Elevation:	19.41 to 22.62 feet above mean sea level
Groundwater Gradient (direction):	west-northwest, southeast
Groundwater Gradient (magnitude):	0.01 feet per foot

2.3 Proposed Activities

Blaine Tech will continue to gauge and sample wells according to the established groundwater monitoring program. The site is monitored semiannually during the second and fourth quarters. AECOM will issue groundwater monitoring reports semiannually following the sampling events.

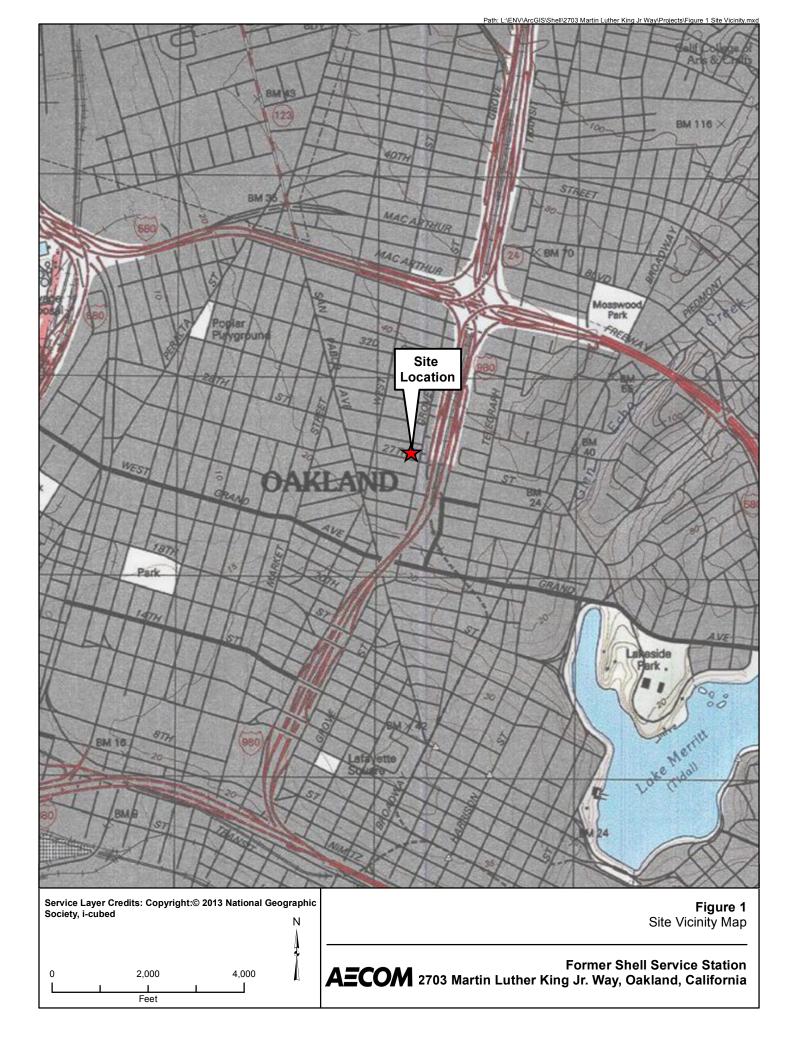
3 Conclusions and Recommendations

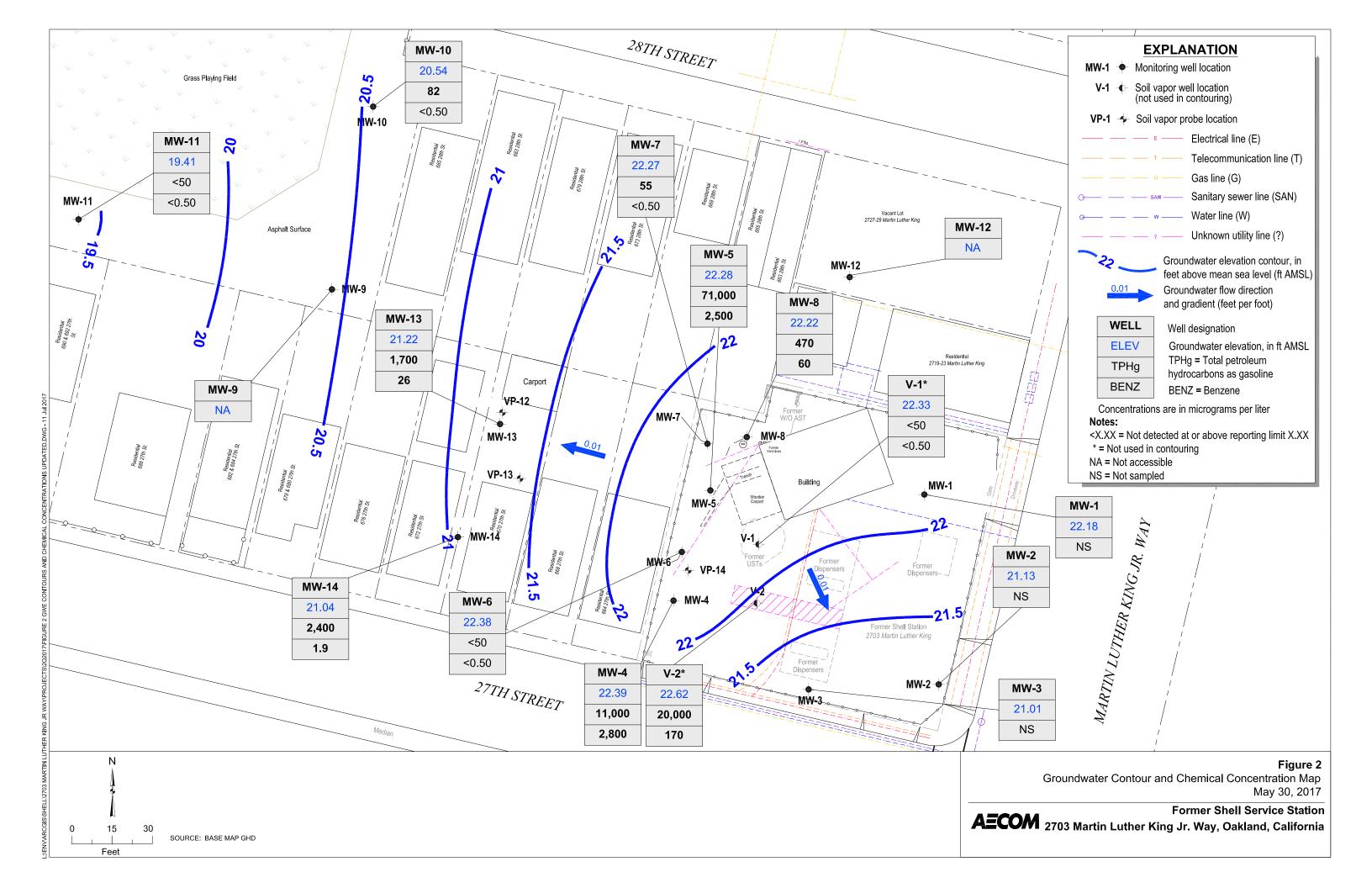
Fourteen monitoring wells were gauged, and eleven were sampled and analyzed for total petroleum hydrocarbons as gasoline (TPHg), benzene, toluene, ethylbenzene, and total xylenes.

- TPHg was detected in eight wells at concentrations ranging from 55 micrograms per liter (μg/L) (MW-7) to 71,000 μg/L (MW-5).
- Benzene was detected in six wells at concentrations ranging from 1.9 $\mu g/L$ (MW-14) to 2,800 $\mu g/L$ (MW-4).
- Toluene was detected in four wells at concentrations ranging from 0.74 μ g/L (MW-8) to 2,500 μ g/L (MW-5).
- Ethylbenzene was detected in five wells at concentrations ranging from 1.1 μg/L (MW-14) to 5,500 μg/L (MW-5).
- Total xylenes were detected in four wells at concentrations ranging from 13 μ g/L (MW-8) to 24,000 μ g/L (MW-5).

AECOM will continue with the established groundwater monitoring program and recommends implementing the Pilot Study Work Plan, pending ACDEH review and approval.

Figures





				1					r	1		1	1	1		
Well ID	Date	TPHg (μg/L)	Β (μg/L)	Τ (μg/L)	Ε (μg/L)	Χ (μg/L)	MTBE 8020 (μg/L)	ΜΤΒΕ 8260 (μg/L)	TBA (μg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (μg/L)	TOC (ft MSL)	Depth to Water (ft TOC)	GW Elevation (ft MSL)	DO (mg/L)
MW-1	08/05/1996	<50	<0.50	<0.50	<0.50	<0.50	<2.5						23.53	8.76	14.77	
MW-1 (D)	08/05/1996	<50	<0.50	<0.50	<0.50	<0.50	<2.5						23.53			
MW-1	10/17/1996	<50	<0.50	<0.50	<0.50	<0.50	<2.5						23.53	9.88	13.65	
MW-1	01/08/1997	<50	<0.50	<0.50	<0.50	<0.50	<2.5						23.53	6.82	16.71	
MW-1	04/07/1997	<50	<0.50	<0.50	<0.50	<0.50	<2.5						23.53	7.89	15.64	
MW-1	07/02/1997	<50	<0.50	<0.50	<0.50	<0.50	<2.5						23.53	8.71	14.82	
MW-1	10/24/1997	<50	<0.50	<0.50	<0.50	<0.50	<2.5						23.53	9.26	14.27	
MW-1	01/09/1998	<50	<0.50	<0.50	<0.50	<0.50	<2.5						23.53	7.94	15.59	
MW-1	04/02/1998	<50	<0.50	<0.50	<0.50	<0.50	<2.5						23.53	7.21	16.32	
MW-1	07/14/1998	<50	<0.50	<0.50	<0.50	<0.50	<2.5						23.53	7.78	15.75	
MW-1	10/01/1998	<50	<0.50	<0.50	<0.50	<0.50	<2.5						23.53	8.39	15.14	
MW-1	01/18/1999	<50.0	<0.500	0.785	<0.500	<0.500	2.36						23.53	8.28	15.25	
MW-1	04/29/1999	<50	<0.50	<0.50	<0.50	<0.50	<2.5						23.53	8.41	15.12	
MW-1	08/23/1999	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50						23.53	8.17	15.36	
MW-1	10/06/1999	<50.0	<0.500	<0.500	<0.500	<0.500	<5.00						23.53	9.37	14.16	
MW-1	01/27/2000	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50						23.53	7.52	16.01	
MW-1	04/18/2000	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50						23.53	7.66	15.87	
MW-1	07/19/2000	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50						23.53	7.81	15.72	
MW-1	10/24/2000	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50						23.53	8.33	15.20	
MW-1	01/04/2001	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50						23.53	8.33	15.20	
MW-1	05/03/2001	<50	<0.50	<0.50	<0.50	<0.50		<5.0					23.53	7.83	15.70	
MW-1	07/09/2001	<50	<0.50	<0.50	<0.50	<0.50		<5.0					23.53	8.60	14.93	
MW-1	10/18/2001	<50	<0.50	<0.50	<0.50	<0.50		<5.0					23.53	9.01	14.52	0.2
MW-1	01/24/2002	<50	<0.50	<0.50	<0.50	<0.50		<5.0					23.53	7.68	15.85	2.1
MW-1	04/04/2002	<50	<0.50	<0.50	<0.50	<0.50		<5.0					23.53	7.38	16.15	1.1
MW-1	07/18/2002	<50	<0.50	<0.50	<0.50	<0.50		<5.0					23.53	7.75	15.78	2.2
MW-1	10/21/2002	<50	<0.50	<0.50	<0.50	<0.50		<5.0					29.53	8.10	21.43	1.6
MW-1	01/21/2003	<50	<0.50	<0.50	<0.50	<0.50		<5.0					29.53	7.82	21.71	0.6
MW-1	04/17/2003	<50	<0.50	<0.50	<0.50	<1.0		<5.0					29.53	7.76	21.77	1.7

Well ID	Date	TPHg (µg/L)	Β (μg/L)	T (μg/L)	Ε (μg/L)	Χ (μg/L)	MTBE 8020 (μg/L)	MTBE 8260 (μg/L)	TBA (μg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (μg/L)	TOC (ft MSL)	Depth to Water (ft TOC)	GW Elevation (ft MSL)	DO (mg/L)
MW-1	07/22/2003	<50	<0.50	<0.50	<0.50	<1.0		<0.50					29.53	7.87	21.66	1.5
MW-1	10/20/2003	<50	<0.50	<0.50	<0.50	<1.0		<0.50					29.53	8.67	20.86	0.8
MW-1	01/13/2004	<50	<0.50	<0.50	<0.50	<1.0		<0.50					29.53	8.28	21.25	
MW-1	01/22/2004												29.53	8.50	21.03	1.1
MW-1	04/01/2004												29.53	7.98	21.55	
MW-1	07/13/2004												29.53	8.30	21.23	
MW-1	10/26/2004												29.53	8.27	21.26	
MW-1	01/13/2005												29.53	6.92	22.61	
MW-1	04/28/2005												29.53	7.18	22.35	
MW-1	08/01/2005												29.53	7.43	22.10	
MW-1	10/05/2005												29.53	7.55	21.98	
MW-1	01/11/2006												29.54	5.35	24.19	
MW-1	05/26/2006	<50.0	<0.500	<0.500	<0.500	<0.500		<0.500	<10.0	<0.500	<0.500	<0.500	29.54	6.81	22.73	0.78
MW-1	08/30/2006												29.54	7.77	21.77	
MW-1	11/08/2006												29.54	8.39	21.15	
MW-1	02/22/2007												29.54	7.11	22.43	
MW-1	05/29/2007												29.54	7.20	22.34	
MW-1	08/27/2007												29.54	7.86	21.68	
MW-1	11/08/2007												29.54	7.89	21.65	
MW-1	02/20/2008												29.54	7.38	22.16	
MW-1	05/01/2008												29.54	7.58	21.96	
MW-1	08/12/2008												29.54	8.85	20.69	
MW-1	11/26/2008												29.54	8.90	20.64	
MW-1	02/03/2009												29.54	8.51	21.03	
MW-1	06/02/2009												29.54	8.45	21.09	
MW-1	11/10/2009												29.54	8.89	20.65	
MW-1	05/10/2010												29.54	7.22	22.32	
MW-1	09/09/2010												29.54	7.88	21.66	
MW-1	12/03/2010												29.54	7.98	21.56	

Well ID	Date	TPHg (μg/L)	Β (μg/L)	Τ (μg/L)	Ε (μg/L)	Χ (μg/L)	MTBE 8020 (μg/L)	MTBE 8260 (μg/L)	TBA (μg/L)	DIPE (µg/L)	ETBE (μg/L)	TAME (μg/L)	TOC (ft MSL)	Depth to Water (ft TOC)	GW Elevation (ft MSL)	DO (mg/L)
MW-1	03/02/2011												29.54	7.52	22.02	
MW-1	05/31/2011												29.54	7.28	22.26	
MW-1	12/13/2011												29.54	7.64	21.90	
MW-1	06/13/2012												29.54	7.56	21.98	
MW-1	11/19/2012												29.54	8.48	21.06	
MW-1	05/30/2013												29.54	7.32	22.22	
MW-1	11/18/2013												29.54	9.11	20.43	
MW-1	06/06/2014												29.54	8.40	21.14	
MW-1	12/01/2014												29.54	9.37	20.17	
MW-1	05/22/2015												29.54	7.45	22.09	
MW-1	12/18/2015												29.54	9.39	20.15	
MW-1	05/16/2016												29.54	7.14	22.40	
MW-1	12/08/2016												29.54	8.78	20.76	
MW-1	05/30/2017												29.54	7.36	22.18	
MW-2	08/05/1996	<50	<0.50	<0.50	<0.50	<0.50	<2.5						22.47	8.35	14.12	
MW-2	10/17/1996	<50	<0.50	<0.50	<0.50	<0.50	<2.5						22.47	9.32	13.15	
MW-2 (D)	10/17/1996	<50	<0.50	<0.50	<0.50	<0.50	<2.5						22.47			
MW-2	01/08/1997	<50	<0.50	<0.50	<0.50	<0.50	<2.5						22.47	6.80	15.67	
MW-2 (D)	01/08/1997	<50	<0.50	<0.50	<0.50	<0.50	<2.5						22.47			
MW-2	04/07/1997	<50	<0.50	<0.50	<0.50	<0.50	<2.5						22.47	7.81	14.66	
MW-2	07/02/1997	<50	<0.50	<0.50	<0.50	<0.50	<2.5						22.47	8.27	14.20	
MW-2	10/24/1997	<50	<0.50	<0.50	<0.50	<0.50	<2.5						22.47	9.12	13.35	
MW-2	01/09/1998	<50	<0.50	<0.50	<0.50	<0.50	6.3						22.47	7.41	15.06	
MW-2	04/02/1998	<50	<0.50	<0.50	<0.50	<0.50	<2.5						22.47	6.59	15.88	
MW-2	07/14/1998	<50	<0.50	<0.50	<0.50	<0.50	<2.5						22.47	7.49	14.98	
MW-2	10/01/1998	<50	<0.50	<0.50	<0.50	0.59	<2.5						22.47	8.58	13.89	
MW-2	01/18/1999	<50.0	<0.500	0.971	<0.500	<0.500	2.47						22.47	8.68	13.79	
MW-2	04/29/1999	<50	<0.50	<0.50	<0.50	<0.50	<2.5						22.47	8.62	13.85	

Well ID	Date	TPHg (μg/L)	Β (μg/L)	Τ (μg/L)	Ε (μg/L)	Χ (μg/L)	MTBE 8020 (μg/L)	MTBE 8260 (μg/L)	TBA (μg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (μg/L)	TOC (ft MSL)	Depth to Water (ft TOC)	GW Elevation (ft MSL)	DO (mg/L)
MW-2	08/23/1999	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50						22.47	7.43	15.04	
MW-2	10/06/1999	<50.0	<0.500	<0.500	<0.500	<0.500	<5.00						22.47	9.00	13.47	
MW-2	01/27/2000	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50						22.47	8.15	14.32	
MW-2	04/18/2000	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50						22.47	7.04	15.43	
MW-2	07/19/2000	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50						22.47	7.13	15.34	
MW-2	10/24/2000	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50						22.47	8.78	13.69	
MW-2	01/04/2001	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50						22.47	8.33	14.14	
MW-2	05/03/2001	<50	<0.50	<0.50	<0.50	<0.50		<5.0					22.47	7.24	15.23	
MW-2	07/09/2001	<50	<0.50	<0.50	<0.50	<0.50		<5.0					22.47	8.55	13.92	
MW-2	10/18/2001	<50	<0.50	<0.50	<0.50	<0.50		<5.0					22.47	9.42	13.05	
MW-2	01/24/2002	<50	<0.50	<0.50	<0.50	<0.50		<5.0					22.47	7.23	15.24	
MW-2	04/04/2002	<50	<0.50	<0.50	<0.50	<0.50		<5.0					22.47	6.90	15.57	
MW-2	07/18/2002	<50	<0.50	<0.50	<0.50	<0.50		<5.0					22.47	7.97	14.50	
MW-2	10/21/2002	<50	<0.50	<0.50	<0.50	<0.50		<5.0					28.47	8.62	19.85	
MW-2	01/21/2003	<50	<0.50	<0.50	<0.50	<0.50		<5.0					28.47	7.08	21.39	
MW-2	04/17/2003	<50	<0.50	<0.50	0.98	2.5		<5.0					28.47	6.94	21.53	
MW-2	07/22/2003	<50	<0.50	<0.50	<0.50	<1.0		<0.50					28.47	8.10	20.37	
MW-2	10/20/2003	<50	<0.50	<0.50	<0.50	<1.0		<0.50					28.47	9.09	19.38	
MW-2	01/13/2004	<50	<0.50	<0.50	<0.50	<1.0		<0.50					28.47	7.28	21.19	
MW-2	01/22/2004												28.47	8.99	19.48	2.8
MW-2	04/01/2004												28.47	6.88	21.59	
MW-2	07/13/2004												28.47	8.28	20.19	
MW-2	10/26/2004												28.47	8.43	20.04	
MW-2	01/13/2005												28.47	6.52	21.95	
MW-2	04/28/2005												28.47	6.38	22.09	
MW-2	08/01/2005												28.47	7.73	20.74	
MW-2	10/05/2005												28.47	8.47	20.00	
MW-2	01/11/2006												28.48	6.30	22.18	
MW-2	05/26/2006	59.9	<0.500	<0.500	<0.500	<0.500		<0.500	<10.0	<0.500	<0.500	<0.500	28.48	6.84	21.64	3.02

Well ID	Date	TPHg (μg/L)	Β (μg/L)	Τ (μg/L)	Ε (μg/L)	Χ (μg/L)	MTBE 8020 (μg/L)	MTBE 8260 (μg/L)	TBA (μg/L)	DIPE (µg/L)	ETBE (μg/L)	TAME (μg/L)	TOC (ft MSL)	Depth to Water (ft TOC)	GW Elevation (ft MSL)	DO (mg/L)
MW-2	08/30/2006												28.48	8.11	20.37	
MW-2	11/08/2006												28.48	8.61	19.87	
MW-2	02/22/2007												28.48	6.92	21.56	
MW-2	05/29/2007												28.48	7.32	21.16	
MW-2	08/27/2007												28.48	8.38	20.10	
MW-2	11/08/2007												28.48	8.58	19.90	
MW-2	02/20/2008												28.48	6.48	22.00	
MW-2	05/01/2008												28.48	19.00	9.48	
MW-2	08/12/2008												28.48	8.53	19.95	
MW-2	11/26/2008												28.48	8.88	19.60	
MW-2	02/03/2009												28.48	8.20	20.28	
MW-2	06/02/2009												28.48	7.50	20.98	
MW-2	11/10/2009												28.48	8.69	19.79	
MW-2	05/10/2010												28.48	7.09	21.39	
MW-2	09/09/2010												28.48	8.70	19.78	
MW-2	12/03/2010												28.48	8.22	20.26	
MW-2	03/02/2011												28.48	6.40	22.08	
MW-2	05/31/2011												28.48	7.46	21.02	
MW-2	12/13/2011												28.48	8.28	20.20	
MW-2	06/13/2012												28.48	7.51	20.97	
MW-2	11/19/2012												28.48	8.85	19.63	
MW-2	05/30/2013												28.48	7.82	20.66	
MW-2	11/18/2013												28.48	9.55	18.93	
MW-2	06/06/2014												28.48	7.99	20.49	
MW-2	12/01/2014												28.48	9.52	18.96	
MW-2	05/22/2015												28.48	8.30	20.18	
MW-2	12/18/2015												28.48	10.86	17.62	
MW-2	05/16/2016												28.48	7.45	21.03	
MW-2	12/08/2016												28.48	9.10	19.38	

Well ID	Date	TPHg (μg/L)	Β (μg/L)	Τ (μg/L)	Ε (μg/L)	Χ (μg/L)	MTBE 8020 (μg/L)	MTBE 8260 (μg/L)	TBA (μg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (μg/L)	TOC (ft MSL)	Depth to Water (ft TOC)	GW Elevation (ft MSL)	DO (mg/L)
MW-2	05/30/2017												28.48	7.35	21.13	
MW-3	04/25/2001												22.30	7.16	15.14	
MW-3	05/03/2001	<100	<0.50	<0.50	<0.50	<0.50		<5.0					22.30	7.28	15.02	
MW-3	07/09/2001	<50	<0.50	<0.50	<0.50	<0.50		<5.0					22.30	8.45	13.85	
MW-3	10/18/2001	<50	<0.50	<0.50	<0.50	<0.50		<5.0					22.30	9.44	12.86	
MW-3	01/24/2002	<50	<0.50	<0.50	<0.50	<0.50		<5.0					22.30	5.88	16.42	
MW-3	04/04/2002	<50	<0.50	<0.50	<0.50	<0.50		<5.0					22.30	6.68	15.62	
MW-3	07/18/2002	<50	<0.50	<0.50	<0.50	<0.50		<5.0					22.30	7.63	14.67	
MW-3	10/21/2002	<50	<0.50	<0.50	<0.50	<0.50		<5.0					28.30	8.56	19.74	
MW-3	01/21/2003	<50	<0.50	<0.50	<0.50	<0.50		<5.0					28.30	6.95	21.35	
MW-3	04/17/2003	<50	<0.50	<0.50	<0.50	<1.0		<5.0					28.30	6.77	21.53	
MW-3	07/22/2003	<50	<0.50	<0.50	<0.50	<1.0		<0.50					28.30	7.92	20.38	
MW-3	10/20/2003	<50	<0.50	<0.50	<0.50	<1.0		<0.50					28.30	9.12	19.18	
MW-3	01/13/2004	<50	<0.50	<0.50	<0.50	<1.0		<0.50					28.30	7.21	21.09	
MW-3	01/22/2004												28.30	9.00	19.30	0.6
MW-3	04/01/2004												28.30	6.65	21.65	
MW-3	07/13/2004												28.30	8.24	20.06	
MW-3	10/26/2004												28.30	8.50	19.80	
MW-3	01/13/2005												28.30	6.32	21.98	
MW-3	04/28/2005												28.30	6.05	22.25	
MW-3	08/01/2005												28.30	7.65	20.65	
MW-3	10/05/2005												28.30	8.31	19.99	
MW-3	01/11/2006												28.30	6.10	22.20	
MW-3	05/26/2006	<50.0	<0.500	<0.500	<0.500	<0.500		<0.500	<10.0	2.87	<0.500	<0.500	28.30	6.72	21.58	1.46
MW-3	08/30/2006												28.30	8.12	20.18	
MW-3	11/08/2006												28.30	8.71	19.59	
MW-3	02/22/2007												28.30	6.78	21.52	
MW-3	05/29/2007												28.30	7.20	21.10	

Well ID	Date	TPHg (μg/L)	Β (μg/L)	Τ (μg/L)	Ε (μg/L)	Χ (μg/L)	MTBE 8020 (μg/L)	MTBE 8260 (μg/L)	TBA (μg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (μg/L)	TOC (ft MSL)	Depth to Water (ft TOC)	GW Elevation (ft MSL)	DO (mg/L)
MW-3	08/27/2007												28.30	8.18	20.12	
MW-3	11/08/2007												28.30	8.41	19.89	
MW-3	02/20/2008												28.30	6.31	21.99	
MW-3	05/01/2008												28.30	7.52	20.78	
MW-3	08/12/2008												28.30	8.32	19.98	
MW-3	11/26/2008												28.30	8.71	19.59	
MW-3	02/03/2009												28.30	8.08	20.22	
MW-3	06/02/2009												28.30	7.28	21.02	
MW-3	11/10/2009												28.30	8.72	19.58	
MW-3	05/10/2010												28.30	6.71	21.59	
MW-3	09/09/2010												28.30	8.59	19.71	
MW-3	12/03/2010												28.30	8.26	20.04	
MW-3	03/02/2011												28.30	6.12	22.18	
MW-3	05/31/2011												28.30	7.32	20.98	
MW-3	12/13/2011												28.30	8.19	20.11	
MW-3	06/13/2012												28.30	7.40	20.90	
MW-3	11/19/2012												28.30	8.71	19.59	
MW-3	05/30/2013												28.30	7.52	20.78	
MW-3	11/18/2013												28.30	9.33	18.97	
MW-3	06/06/2014												28.30	7.68	20.62	
MW-3	12/01/2014												28.30	9.41	18.89	
MW-3	05/22/2015												28.30	8.07	20.23	
MW-3	12/18/2015												28.30	9.84	18.46	
MW-3	05/16/2016												28.30	7.12	21.18	
MW-3	12/08/2016												28.30	9.46	18.84	
MW-3	05/30/2017												28.30	7.29	21.01	
MW-4	04/25/2001												22.51	7.05	15.46	
MW-4	05/03/2001	8,000	3,500	24	37	350		<200					22.51	6.66	15.85	

Well ID	Date	TPHg (μg/L)	Β (μg/L)	Τ (μg/L)	E (µg/L)	Χ (μg/L)	MTBE 8020 (μg/L)	MTBE 8260 (μg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (μg/L)	TOC (ft MSL)	Depth to Water (ft TOC)	GW Elevation (ft MSL)	DO (mg/L)
MW-4	07/09/2001	16,000	4,100	32	890	790		<200					22.51	8.28	14.23	
MW-4	10/18/2001	12,000	3,300	<20	430	220		<200					22.51	9.40	13.11	
MW-4	01/24/2002	5,500	1,200	<5.0	280	240		<50					22.51	5.73	16.78	
MW-4	04/04/2002	2,000	350	1.4	13	7.8		<10					22.51	5.62	16.89	
MW-4	07/18/2002	3,400	440	1.3	200	98		<5.0					22.51	6.94	15.57	
MW-4	10/21/2002	16,000	3,100	11	1,200	970		<5.0					28.51	8.04	20.47	
MW-4	01/21/2003	3,600	720	3.9	110	58		<25					28.51	6.10	22.41	
MW-4	04/17/2003	3,700	810	<5.0	140	17		<50					28.51	5.97	22.54	
MW-4	07/22/2003	3,700	450	<2.5	110	7.9		<2.5					28.51	6.37	22.14	
MW-4	10/20/2003	11,000 b	2,500	<20	550	95		<20					28.51	8.99	19.52	
MW-4	01/13/2004	6,600	1,500	<10	41	37		<10					28.51	6.67	21.84	
MW-4	01/22/2004												28.51	8.80	19.71	0.3
MW-4	04/01/2004	9,500	2,100	12	170	30							28.51	6.28	22.23	0.1
MW-4	07/13/2004	12,000	3,600	39	160	58		<25	<250	<100	<100	<100	28.51	8.20	20.31	0.1
MW-4	10/26/2004	11,000	2,800	<25	100	<50							28.51	8.00	20.51	0.6
MW-4	01/13/2005	12,000	2,200	14	110	43							28.51	6.03	22.48	0.1
MW-4	04/28/2005	8,600	2,300	27	200	49							28.51	5.93	22.58	3.71
MW-4	08/01/2005	11,000	3,900	57	180	47		<10	<100	<40	<40	<40	28.51	6.20	22.31	
MW-4	10/05/2005	9,400	3,300	45	88	33							28.51	8.22	20.29	2.76
MW-4	01/11/2006	3,900 a	1,700 a	14	95	78		<0.50	32	7.4	<0.50	<0.50	28.51	4.25	24.26	0.6
MW-4	05/26/2006	6,730	455	1.90	56.7	44.8		<0.500	<10.0	4.36	<0.500	<0.500	28.51	5.90	22.61	0.54
MW-4	08/30/2006	29,600	2,740	30.0	448	237		<0.500	<10.0	<0.500	<0.500	<0.500	28.51	7.98	20.53	0.44/0.46
MW-4	11/08/2006	6,300	1,500	13	130	67							28.51	8.52	19.99	0.05/0.22
MW-4	02/22/2007	11,000	2,200	18	620	310							28.51	5.63	22.88	2.96/2.98
MW-4	05/29/2007	14,000 b, f	3,200	27	640	249.0							28.51	6.60	21.91	0.19/0.11
MW-4	08/27/2007	12,000 f	1,900	19 g	250	80.9 g		<25	<250	<50	<50	<50	28.51	8.50	20.01	0.85/1.71
MW-4	11/08/2007	6,400 f	1,400	11 g	70	37.9 g							28.51	8.21	20.30	1.09/2.63
MW-4	02/20/2008	12,000 f	2,700	<20	690	396							28.51	4.86	23.65	0.46/0.12
MW-4	05/01/2008	8,500	2,000	<20	260	62							28.51	7.00	21.51	0.2/0.2

							MTBE	МТВЕ						Depth to	GW	
Well ID	Date	TPHg (µg/L)	Β (μg/L)	Τ (μg/L)	E (µg/L)	Χ (μg/L)	8020 (μg/L)	8260 (µg/L)	ΤΒΑ (μg/L)	DIPE (μg/L)	ETBE (µg/L)	TAME (μg/L)	TOC (ft MSL)	Water (ft TOC)	Elevation (ft MSL)	DO (mg/L)
MW-4	08/12/2008	8,400	1,800	22	<20	24		<20	<200	<40	<40	<40	28.51	8.31	20.20	0.21/0.68
MW-4	11/26/2008	6,900	1,800	<20	120	<20							28.51	8.94	19.57	0.88/2.18
MW-4	02/03/2009	8,800	1,800	<20	160	96							28.51	7.64	20.87	0.15/0.26
MW-4	06/02/2009	15,000	3,000	58	340	55							28.51	6.82	21.69	0.26/0.65
MW-4	11/10/2009	13,000	2,200	37	180	91		<20	<200	<40	<40	<40	28.51	8.38	20.13	0.61/0.57
MW-4	05/10/2010	12,000	3,100	37	570	140							28.51	5.42	23.09	0.26/2.84
MW-4	09/09/2010												28.51	8.31	20.20	
MW-4	12/03/2010	6,400	1,600	21	96	68		<20	<200	<40	<40	<40	28.51	7.75	20.76	0.52/0.45
MW-4	03/02/2011												28.51	4.25	24.26	
MW-4	05/31/2011	11,000	3,200	61	520	68							28.51	6.34	22.17	1.46/2.63
MW-4	12/13/2011	4,000	1,120	31.1	83.0	30.3		<0.500	<10.0	4.64	<0.500	<0.500	28.51	7.90	20.61	0.59/0.19
MW-4	06/13/2012	12,000	3,500	47	270	<50							28.51	6.90	21.61	1.03/0.96
MW-4	11/19/2012	8,300	1,800	88	120	310		<25	<500	<25	<25	<25	28.51	8.34	20.17	0.88/1.02
MW-4	05/30/2013	11,000	3,400	68	220	40							28.51	7.38	21.13	0.10/0.07
MW-4	11/18/2013	10,000	2,400	33	43	<40		<20	<400	<20	<20	<20	28.51	9.13	19.38	0.27/0.24
MW-4	06/06/2014	8,900	1,800	<25	110	55							28.51	7.28	21.23	0.46/0.50
MW-4	12/01/2014	8,500 i	1,400	17	33	91		<10	<200	<10	<10	<10	28.51	8.80	19.71	0.48/1.17
MW-4	05/22/2015	7,100	1,500	48	54	<40							28.51	7.50	21.01	1.01/0.73
MW-4	12/18/2015	7,500	1,300	72	75	290		<10	<200	<10	<10	<10	28.51	9.28	19.23	1.58/2.35
MW-4	05/16/2016	5,900	2,500	55	110	42							28.51	6.45	22.06	2.70/8.47
MW-4	12/08/2016	7,600	1,700	34	140	71		<13	<250	<13	<13	<13	28.51	6.07	22.44	6.39/4.23
MW-4	05/30/2017	11,000	2,800	150	94	41							28.51	6.12	22.39	5.49/4.11
MW-5	04/25/2001												23.54	7.36	16.18	
MW-5	05/03/2001	160,000	12,000	20,000	3,600	23,000		<500					23.54	7.77	15.77	
MW-5	07/09/2001	130,000	11,000	19,000	4,500	22,000		<500					23.54	9.32	14.22	
MW-5	10/18/2001	120,000	12,000	23,000	4,200	21,000		<500					23.54	9.39	14.15	0.5
MW-5	01/24/2002	34,000	3,300	3,300	960	6,000		<100					23.54	7.05	16.49	4.0
MW-5	04/04/2002	32,000	2,100	2,800	730	6,400		<200					23.54	6.89	16.65	1.0

Well ID	Date	TPHg (μg/L)	Β (μg/L)	Τ (μg/L)	Ε (μg/L)	Χ (μg/L)	MTBE 8020 (μg/L)	MTBE 8260 (μg/L)	TBA (μg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (μg/L)	TOC (ft MSL)	Depth to Water (ft TOC)	GW Elevation (ft MSL)	DO (mg/L)
MW-5	07/18/2002	75,000	7,500	4,700	2,700	15,000		<500					23.54	8.48	15.06	1.2
MW-5	10/21/2002	140,000	13,000	18,000	4,000	26,000		<500					29.54	9.21	20.33	1.1
MW-5	01/21/2003	47,000	6,400	3,500	370	8,300		<500					29.54	7.23	22.31	0.8
MW-5	04/17/2003	93,000	9,700	16,000	3,200	20,000		<500					29.54	6.61	22.93	0.8
MW-5	07/22/2003	110,000	9,500	15,000	560	23,000		<50					29.54	8.68	20.86	1.2
MW-5	10/20/2003	88,000	6,600	12,000	1,900	16,000		<50					29.54	9.71	19.83	0.1
MW-5	01/13/2004	4,600	460	140	<10	930		<10					29.54	7.30	22.24	
MW-5	01/22/2004												29.54	9.51	20.03	0.3
MW-5	04/01/2004	70,000	7,900	11,000	2,100	17,000							29.54	6.80	22.74	0.1
MW-5	07/13/2004	66,000	5,900	10,000	1,900	16,000		<50	<500	<200	<200	<200	29.54	9.28	20.26	0.1
MW-5	10/26/2004	6,600	670	110	7.4	2,000							29.54	8.75	20.79	0.8
MW-5	01/13/2005	9,500	1,300	950	360	1,900							29.54	5.87	23.67	6.3
MW-5	04/28/2005	17,000	2,400	1,200	320	3,400							29.54	6.32	23.22	3.54
MW-5	08/01/2005	70,000	6,600	11,000	3,400	17,000		<50	<500	<200	<200	<200	29.54	8.27	21.27	
MW-5	10/05/2005	93,000	8,600	15,000	4,500	23,000							29.54	9.12	20.42	1.43
MW-5	01/11/2006	12,000	1,900	550	2,400	3,800		<25	<250	<25	<25	<25	29.61	5.52	24.09	0.6
MW-5	05/26/2006	112,000	6,600	11,100	3,870	19,900 e		<0.500	<10.0	5.37	<0.500	<0.500	29.61	7.02	22.59	0.45
MW-5	08/30/2006	281,000	8,050	15,400	4,770	26,800		<0.500	<10.0	<0.500	<0.500	60.6	29.61	8.93	20.68	0.55/0.51
MW-5	11/08/2006	83,000	7,000	7,400	3,200	16,000							29.61	9.40	20.21	0.08/0.05
MW-5	02/22/2007	35,000	9,500	13,000	5,300	23,000							29.61	6.87	22.74	1.17/3.17
MW-5	05/29/2007	94,000 f	6,400	9,900	4,300	22,000							29.61	7.85	21.76	0.08/0.19
MW-5	08/27/2007	110,000 f	6,900	11,000	4,300	22,000		<100	<1000	<200	<200	<200	29.61	9.13	20.48	0.08/0.22
MW-5	11/08/2007	61,000 f	7,500	5,300	4,700	20,400							29.61	9.27	20.34	2.15/0.65
MW-5	02/20/2008	92,000 f	14,000	14,000	5,900	30,800							29.61	6.02	23.59	0.17/0.18
MW-5	05/01/2008	130,000	8,200	12,000	4,600	24,900							29.61	8.20	21.41	0.2/0.1
MW-5	08/12/2008	150,000	7,600	12,000	8,900	24,800		<100	<1,000	<200	<200	<200	29.61	9.42	20.19	0.14/0.51
MW-5	11/26/2008	110,000	7,900	12,000	4,500	27,500							29.61	9.86	19.75	1.26/0.95
MW-5	02/03/2009	130,000	8,500	10,000	4,400	24,000							29.61	8.67	20.94	0.30/0.23
MW-5	06/02/2009	150,000	7,000	10,000	4,600	25,000							29.61	8.02	21.59	0.28/0.28

Well ID	Date	TPHg (µg/L)	Β (μg/L)	Τ (μg/L)	Ε (μg/L)	Χ (μg/L)	MTBE 8020 (μg/L)	MTBE 8260 (μg/L)	TBA (μg/L)	DIPE (µg/L)	ETBE (μg/L)	TAME (μg/L)	TOC (ft MSL)	Depth to Water (ft TOC)	GW Elevation (ft MSL)	DO (mg/L)
MW-5	11/10/2009	150,000	6,900	10,000	4,600	26,000		<100	<1000	<200	<200	<200	29.61	9.41	20.20	0.48/0.49
MW-5	05/10/2010	80,000	5,700	7,100	4,000	22,000							29.61	6.72	22.89	0.22/0.29
MW-5	09/09/2010												29.61	9.51	20.10	
MW-5	12/03/2010	73,000	5,400	8,500	4,100	21,000		<100	<1,000	<200	<200	<200	29.61	8.70	20.91	0.39/0.38
MW-5	03/02/2011												29.61	5.04	24.57	
MW-5	05/31/2011	72,000	5,800	7,000	4,400	23,000							29.61	7.52	22.09	0.92/1.21
MW-5	12/13/2011	130,000	9,070	10,900	7,200	38,000		<0.500	<10.0	<0.500	<0.500	<0.500	29.61	8.85	20.76	0.66/0.47
MW-5	06/13/2012	110,000	5,400	7,400	5,700	29,000							29.61	7.97	21.64	1.10/1.15
MW-5	11/19/2012	98,000	6,100	7,600	5,500	30,000		<50	<1,000	<50	<50	<50	29.61	9.30	20.31	1.45/1.27
MW-5	05/30/2013	96,000	6,000	7,200	5,700	30,000							29.61	8.43	21.18	0.07/0.10
MW-5	11/18/2013	74,000	5,000	5,300	4,400	24,000		<50	<1,000	<50	<50	<50	29.61	10.36	19.25	0.34/0.30
MW-5	06/06/2014	95,000 h	6,200	5,800	5,900	31,000							29.61	8.46	21.15	0.61/0.69
MW-5	12/01/2014	85,000	4,900	4,400	4,700	22,000		<50	<1,000	<50	<50	<50	29.61	9.84	19.77	0.47/0.29
MW-5	05/22/2015	99,000	5,300	4,100	5,000	27,000							29.61	8.64	20.97	0.33/0.29
MW-5	12/18/2015	93,000	6,200	4,100	6,000	26,000		<100	<2,000	<100	<100	<100	29.61	10.16	19.45	0.70/0.55
MW-5	05/16/2016	80,000	4,700	3,000	5,000	26,000							29.61	7.41	22.20	3.25/1.49
MW-5	12/08/2016	110,000	5,700	2,900	5,900	27,000		<130	<2,500	<130	<130	<130	29.61	7.52	22.09	4.66/0.81
MW-5	05/30/2017	71,000	2,500	2,500	5,500	24,000							29.61	7.33	22.28	4.23/0.78
MW-6	01/09/2006												28.60	4.18	24.42	
MW-6	01/11/2006	150,000	9,300	1,600	5,100	24,000		<2.5 a	51 a	17 a	<2.5 a	<2.5 a	28.60	4.50	24.10	3.6
MW-6	05/26/2006	67,300	6,930	870	2,440	7,590 e		<5.00	<100	10.1	<5.00	<5.00	28.60	6.10	22.50	0.49
MW-6	08/30/2006	7,060	6,090	1,180	2,040	7,200		<0.500	<10.0	<0.500	<0.500	<0.500	28.60	8.05	20.55	0.39/0.56
MW-6	11/08/2006	8,200	1,900	200	350	890							28.60	8.53	20.07	0.12/0.95
MW-6	02/22/2007	49,000	7,300	2,300	3,600	9,500							28.60	5.94	22.66	1.54/2.03
MW-6	05/29/2007	30,000 b,f	4,100	1,000	1,600	4,900							28.60	6.87	21.73	0.11/0.51
MW-6	08/27/2007	36,000 f	2,000	440	1,000	3,400		<25	<250	15 g	<50	<50	28.60	8.22	20.38	0.08/0.15
MW-6	11/08/2007	7,000 f	850	130	270	880							28.60	8.32	20.28	0.94/2.48
MW-6	02/20/2008	28,000 f	6,900	1,300	1,900	7,000							28.60	5.03	23.57	0.14/0.09

	_		_	_	_		MTBE	MTBE						Depth to	GW	
Well ID	Date	TPHg (μg/L)	Β (μg/L)	Τ (μg/L)	Ε (μg/L)	Χ (μg/L)	8020 (μg/L)	8260 (µg/L)	ΤΒΑ (μg/L)	DIPE (μg/L)	ETBE (µg/L)	TAME (μg/L)	TOC (ft MSL)	Water (ft TOC)	Elevation (ft MSL)	DO (mg/L)
MW-6	05/01/2008	24,000	4,400	940	1,000	3,500							28.60	7.15	21.45	0.05/0.04
MW-6	08/12/2008	30,000	1,900	380	1,300	3,600		<50	<500	<100	<100	<100	28.60	8.49	20.11	0.49/0.99
MW-6	11/26/2008	15,000	2,400	320	590	2,120							28.60	8.93	19.67	0.79/2.30
MW-6	02/03/2009	25,000	3,000	330	790	3,000							28.60	7.69	20.91	0.24/0.09
MW-6	06/02/2009	Well inacces	ssible										28.60			
MW-6	11/10/2009	19,000	2,500	490	620	2,200		<25	<250	<50	<50	<50	28.60	8.47	20.13	2.82/1.98
MW-6	05/10/2010	15,000	4,100	700	790	2,300							28.60	5.64	22.96	0.21/0.35
MW-6	09/09/2010												28.60	8.54	20.06	
MW-6	12/03/2010	5,700	1,800	240	250	870		<25	<250	<50	<50	<50	28.60	7.88	20.72	0.38/0.53
MW-6	03/02/2011												28.60	4.08	24.52	
MW-6	05/31/2011	33,000	6,200	1,900	1,700	5,800							28.60	6.25	22.35	0.80/2.21
MW-6	12/13/2011	12,000	2,700	556	548	1,880		<0.500	<10.0	9.68	<0.500	<0.500	28.60	8.01	20.59	0.81/0.99
MW-6	06/13/2012	30,000	6,200	1,400	1,700	6,300							28.60	7.14	21.46	1.00/1.41
MW-6	11/19/2012	3,000	450	67	76	600		<2.5	<50	<2.5	<2.5	<2.5	28.60	8.34	20.26	2.04/2.90
MW-6	05/30/2013	<10,000	350	<100	<100	<200							28.60	7.59	21.01	0.38/2.76
MW-6	11/18/2013	3,500	460	15	150	130		<5.0	<100	<5.0	<5.0	<5.0	28.60	9.42	19.18	0.22/0.19
MW-6	06/06/2014	2,000	400	53	97	350							28.60	7.44	21.16	0.61/0.58
MW-6	12/01/2014	520 i	110	5.8	7.2	46		<1.0	<20	2.3	<1.0	<1.0	28.60	8.54	20.06	0.62/0.71
MW-6	05/22/2015	1,600	360	39	60	240							28.60	7.63	20.97	2.38/3.10
MW-6	12/18/2015	510	110	5.5	11	64		<1.3	<25	1.9	<1.3	<1.3	28.60	9.39	19.21	1.72/3.35
MW-6	05/16/2016	1,700	480	56	92	380							28.60	6.47	22.13	1.88/5.13
MW-6	12/08/2016	580	93	5.4	26	110		<0.50	<10	<0.50	<0.50	<0.50	28.60	4.76	23.84	2.71/3.84
MW-6	05/30/2017	<50	<0.50	<0.50	<0.50	<1.0							28.60	6.22	22.38	3.87/3.11
MW-7	01/09/2006												29.71	5.50	24.21	
MW-7	01/11/2006	79,000	9,800	1,800	1,900	20,000		<5.0 a	64 a	28 a	<5.0 a	<5.0 a	29.71	5.70	24.01	1.0
MW-7	05/26/2006	98,200	9,620	1,150	3,490	13,400 e		<5.00	885	30.8	<5.00	<5.00	29.71	7.24	22.47	0.30
MW-7	08/30/2006	146,000	8,740	980	3,440	15,400		<0.500	<10.0	22.7	<0.500	<0.500	29.71	9.03	20.68	0.51/0.46
MW-7	11/08/2006	61,000	6,600	880	2,800	12,000							29.71	9.49	20.22	0.02/0.13

Well ID	Date	ΤΡΗg (μg/L)	Β (μg/L)	Τ (μg/L)	Ε (μg/L)	Χ (μg/L)	MTBE 8020 (μg/L)	MTBE 8260 (μg/L)	TBA (μg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (μg/L)	TOC (ft MSL)	Depth to Water (ft TOC)	GW Elevation (ft MSL)	DO (mg/L)
MW-7	02/22/2007	50,000	3,400	910	2,200	13,000							29.71	7.00	22.71	0.96/2.57
MW-7	05/29/2007	26,000 b,f	2,700	320	850	3,590							29.71	8.01	21.70	0.09/0.15
MW-7	08/27/2007	37,000 f	3,300	240	1,300	4,060		<25	<250	20 g	<50	<50	29.71	9.30	20.41	1.23/1.64
MW-7	11/08/2007	26,000 f	3,000	120	1,000	2,810							29.71	9.39	20.32	0.80/1.39
MW-7	02/20/2008	20,000 f	1,400	210	600	4,800							29.71	3.33	26.38	3.72/0.58
MW-7	05/01/2008	16,000	1,700	66	85	1,380							29.71	8.28	21.43	0.2/0.1
MW-7	08/12/2008	27,000	1,700	73	1,100	2,490		<20	<200	<40	<40	<40	29.71	9.61	20.10	1.49/1.93
MW-7	11/26/2008	25,000	2,300	61	62	1,400							29.71	9.94	19.77	0.85/1.10
MW-7	02/03/2009	54,000	2,900	170	520	5,800							29.71	8.80	20.91	0.17/0.62
MW-7	06/02/2009	14,000	1,100	43	23	810							29.71	8.16	21.55	0.21/0.18
MW-7	11/10/2009	17,000	900	42	63	1,400		<10	<100	<20	<20	<20	29.71	9.56	20.15	0.54/0.33
MW-7	05/10/2010	6,900	650	24	24	610							29.71	6.86	22.85	0.37/0.19
MW-7	09/09/2010												29.71	9.70	20.01	
MW-7	12/03/2010	8,100	550	16	20	520		<5.0	<50	<10	<10	<10	29.71	8.95	20.76	0.41/0.37
MW-7	03/02/2011												29.71	4.67	25.04	
MW-7	05/31/2011	6,200	530	16	8.5	320							29.71	7.54	22.17	0.63/0.87
MW-7	12/13/2011	8,800	689	8.85	9.68	200		<0.500	<10.0	1.99	<0.500	<0.500	29.71	8.93	20.78	0.38/0.35
MW-7	06/13/2012	2,300	330	<5.0	<5.0	86							29.71	8.26	21.45	1.35/1.08
MW-7	11/19/2012	5,800	860	14	7.8	300		<5.0	<100	<5.0	<5.0	<5.0	29.71	9.51	20.20	0.96/1.10
MW-7	05/30/2013	3,200	420	11	<5.0	140							29.71	8.55	21.16	0.35/0.24
MW-7	11/18/2013	3,700	620	5.4	7.8	130		<5.0	<100	<5.0	<5.0	<5.0	29.71	10.41	19.30	0.19/0.17
MW-7	06/06/2014	2,000	140	<2.0	<2.0	16							29.71	8.52	21.19	0.41/0.44
MW-7	12/01/2014	2,900	490	7.1	<5.0	140		<5.0	<100	<5.0	<5.0	<5.0	29.71	10.12	19.59	0.41/0.78
MW-7	05/22/2015	2,100	210	3.0	<2.5	48							29.71	8.65	21.06	1.09/1.24
MW-7	12/18/2015	2,900	520	7.1	5.8	110		<5.0	<100	<5.0	<5.0	<5.0	29.71	10.39	19.32	1.12/1.03
MW-7	05/16/2016	2,300	84	2.2	3.2	40							29.71	7.50	22.21	2.90/0.52
MW-7	12/08/2016	640	16	0.85	0.80	56		<0.50	<10	<0.50	<0.50	<0.50	29.71	5.06	24.65	3.62/2.25
MW-7	05/30/2017	55	<0.50	<0.50	<0.50	<1.0							29.71	7.44	22.27	4.08/2.12

Well ID	Date	TPHg (μg/L)	Β (μg/L)	Τ (μg/L)	Ε (μg/L)	Χ (μg/L)	MTBE 8020 (μg/L)	MTBE 8260 (μg/L)	TBA (μg/L)	DIPE (µg/L)	ETBE (μg/L)	TAME (μg/L)	TOC (ft MSL)	Depth to Water (ft TOC)	GW Elevation (ft MSL)	DO (mg/L)
MW-8	01/09/2006												29.54	5.56	23.98	
MW-8	01/11/2006	32,000	2,400	180	66	5,500		<0.50 a	35 a	15 a	<0.50 a	<0.50 a	29.54	5.53	24.01	0.8
MW-8	05/26/2006	24,800	423	73.0	166	2,820 e		<0.500	<10.0	2.18	<0.500	<0.500	29.54	7.02	22.52	0.35
MW-8	08/30/2006	72,100	1,770	114	324	3,140		<0.500	<10.0	23.3	<0.500	<0.500	29.54	8.81	20.73	0.51/0.50
MW-8	11/08/2006	24,000	2,000	90	190	3,400							29.54	9.25	20.29	0.11/0.40
MW-8	02/22/2007	26,000	2,100	110	180	4,400							29.54	7.08	22.46	1.37/1.71
MW-8	05/29/2007	31,000 f	2,600	99	250	3,140							29.54	7.81	21.73	0.05/0.49
MW-8	08/27/2007	41,000 f	3,400	110	260	3,880		<20	<200	32 g	<40	<40	29.54	9.04	20.50	0.07/0.27
MW-8	11/08/2007	42,000 f	4,900	140	440	4,000							29.54	9.14	20.40	3.20/0.10
MW-8	02/20/2008	19,000 f	760	38	52	1,930							29.54	9.00	20.54	1.72/0.13
MW-8	05/01/2008	18,000	1,000	35	42	1,520							29.54	8.10	21.44	1.10/0.19
MW-8	08/12/2008	33,000	1,600	69	1,100	2,730		<10	<100	<20	<20	<20	29.54	9.41	20.13	0.15/0.29
MW-8	11/26/2008	27,000	2,600	77	100	2,930							29.54	9.68	19.86	2.60/0.66
MW-8	02/03/2009	32,000	2,400	70	81	2,700							29.54	8.57	20.97	0.10/0.23
MW-8	06/02/2009	22,000	1,100	39	56	1,600							29.54	8.00	21.54	0.22/0.38
MW-8	11/10/2009	22,000	1,600	46	52	1,600		<25	<250	<50	<50	<50	29.54	9.32	20.22	0.45/0.29
MW-8	05/10/2010	9,800	340	15	21	700							29.54	6.74	22.80	0.28/0.54
MW-8	09/09/2010												29.54	9.52	20.02	
MW-8	12/03/2010	13,000	720	26	29	870		<5.0	<50	<10	<10	<10	29.54	8.67	20.87	0.90/0.27
MW-8	03/02/2011									-			29.54	4.97	24.57	
MW-8	05/31/2011	10,000	260	7.6	9.6	390							29.54	7.51	22.03	0.78/0.81
MW-8	12/13/2011	14,000	703	15.4	25.2	467		<0.500	<10.0	4.95	<0.500	<0.500	29.54	8.73	20.81	0.69/0.32
MW-8	06/13/2012	8,200	290	7.9	14	430							29.54	8.01	21.53	1.48/0.94
MW-8	11/19/2012	7,000	180	7.0	13	510		<2.5	<50	<2.5	<2.5	<2.5	29.54	9.28	20.26	0.79/0.70
MW-8	05/30/2013	7,900	190	5.7	8.7	270							29.54	8.37	21.17	0.17/0.07
MW-8	11/18/2013	11,000	240	8.2	11	630		<2.0	<40	<2.0	<2.0	<2.0	29.54	10.40	19.14	0.26/0.22
MW-8	06/06/2014	7,000	120	2.5	4.6	170							29.54	8.55	20.99	0.36/0.39
MW-8	12/01/2014	6,600	92	3.2	2.9	180		<2.5	<50	<2.5	<2.5	<2.5	29.54	9.69	19.85	0.36/0.42
MW-8	05/22/2015	6,800	80	2.6	4.3	140							29.54	8.59	20.95	0.69/0.50

Well ID	Date	TPHg (μg/L)	Β (μg/L)	Τ (μg/L)	E (µg/L)	Χ (μg/L)	MTBE 8020 (μg/L)	MTBE 8260 (μg/L)	TBA (μg/L)	DIPE (µg/L)	ETBE (μg/L)	TAME (μg/L)	TOC (ft MSL)	Depth to Water (ft TOC)	GW Elevation (ft MSL)	DO (mg/L)
MW-8	12/18/2015	6,100	95	4.3	5.8	220		<1.3	<25	<1.3	<1.3	<1.3	29.54	9.99	19.55	1.52/1.43
MW-8	05/16/2016	5,400	59	2.7	6.5	140							29.54	7.43	22.11	1.79/1.25
MW-8	12/08/2016	1,200	8.9	0.51	2.9	75		<0.50	<10	<0.50	<0.50	<0.50	29.54	6.41	23.13	1.18/0.69
MW-8	05/30/2017	470	60	0.74	1.3	13							29.54	7.32	22.22	1.21/0.73
MW-9	08/27/2010												28.52	10.33	18.19	
MW-9	09/09/2010	13,000	32	13	880	610							28.52	10.60	17.92	0.51/0.73
MW-9	12/03/2010	6,400	33	9.5	540	280							28.52	10.42	18.10	0.22/0.33
MW-9	03/02/2011	11,000	74	11	840	170							28.52	6.45	22.07	0.53/0.48
MW-9	05/31/2011	12,000	49	6.7	570	100							28.52	8.80	19.72	0.19/0.27
MW-9	12/13/2011	13,000	35.8	5.60	470	97.2							28.52	10.24	18.28	0.54/0.51
MW-9	06/13/2012	9,700	49	6.1	420	59							28.52	9.27	19.25	0.68/0.72
MW-9	11/19/2012	9,300	26	<5.0	340	68							28.52	10.55	17.97	1.35/0.76
MW-9	05/30/2013	7,200	19	3.4	160	36							28.52	9.32	19.20	0.41/0.59
MW-9	11/18/2013	760	<5.0	<5.0	19	<10							28.52	10.93	17.59	0.37/0.31
MW-9	06/06/2014	7,600	23	<5.0	190	31							28.52	9.60	18.92	0.16/0.20
MW-9	12/01/2014	7,700	17	<5.0	110	17							28.52	10.96	17.56	0.15/0.19
MW-9	05/22/2015	Well inacces	ssible										28.52			
MW-9	12/18/2015	Well inacces	ssible										28.52			
MW-9	05/16/2016	5,700	20	<5.0	79	16							28.52	8.48	20.04	1.44/0.91
MW-9	12/08/2016	Unable to lo	cate										28.52			
MW-9	05/30/2017	Unable to lo	ocate										28.52			
MW-10	08/27/2010												28.70	10.21	18.49	
MW-10	09/09/2010	2,600	1.9	1.3	40	170							28.70	10.70	18.00	1.43/1.67
MW-10	12/03/2010	1,600	2.0	<1.0	25	18							28.70	10.06	18.64	0.17/0.30
MW-10	03/02/2011	1,600	2.6	0.55	41	13							28.70	6.85	21.85	0.41/0.40
MW-10	05/31/2011	2,400	2.0	0.51	60	45							28.70	7.23	21.47	0.22/0.43
MW-10	12/13/2011	2,700	2.43	<0.500	20.2	2.70							28.70	9.50	19.20	0.69/0.62

Well ID	Date	TPHg (μg/L)	Β (μg/L)	Τ (μg/L)	Ε (μg/L)	Χ (μg/L)	MTBE 8020 (μg/L)	MTBE 8260 (μg/L)	TBA (μg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (μg/L)	TOC (ft MSL)	Depth to Water (ft TOC)	GW Elevation (ft MSL)	DO (mg/L)
MW-10	06/13/2012	2,200	2.5	0.53	48	46							28.70	10.41	18.29	0.81/0.92
MW-10	11/19/2012	980	1.6	<0.50	8.8	1.1							28.70	10.12	18.58	1.20/0.66
MW-10	05/30/2013	1,300	2.0	<0.50	34	5.1							28.70	9.02	19.68	1.38/0.44
MW-10	11/18/2013	5,400	9.8	<5.0	150	19							28.70	10.42	18.28	0.50/0.52
MW-10	06/06/2014	1,000	1.7	<0.50	21	2.3							28.70	8.93	19.77	0.18/0.25
MW-10	12/01/2014	890	1.3	<0.50	8.8	<1.0							28.70	11.15	17.55	0.19/0.35
MW-10	05/22/2015	Well inacces	ssible										28.70			
MW-10	12/18/2015	450	1.2	<0.50	4.1	1.1							28.70	14.18	14.52	1.10/1.35
MW-10	05/16/2016	1,500	1.2	<0.50	19	3.7							28.70	8.28	20.42	2.31/0.92
MW-10	12/08/2016	380	0.55	<0.50	0.93	<1.0							28.70	9.52	19.18	0.42/0.31
MW-10	05/30/2017	82	<0.50	<0.50	<0.50	<1.0							28.70	8.16	20.54	0.33/0.26
MW-11	08/27/2010												27.46	9.98	17.48	
MW-11	09/09/2010	<50	<0.50	<1.0	<1.0	<1.0							27.46	10.32	17.14	1.64/1.69
MW-11	12/03/2010	<50	<0.50	<1.0	<1.0	<1.0							27.46	9.84	17.62	0.29/0.47
MW-11	03/02/2011	<50	<0.50	<0.50	<0.50	<1.0							27.46	6.13	21.33	1.08/0.88
MW-11	05/31/2011	<50	<0.50	<0.50	<0.50	<1.0							27.46	8.42	19.04	0.17/0.30
MW-11	12/13/2011	<50	<0.500	<0.500	<0.500	<0.500							27.46	9.93	17.53	0.36/0.52
MW-11	06/13/2012	<50	<0.50	<0.50	<0.50	<1.0							27.46	9.98	17.48	0.54/0.91
MW-11	11/19/2012	<50	<0.50	<0.50	<0.50	<1.0							27.46	10.16	17.30	0.60/0.88
MW-11	05/30/2013	<50	<0.50	<0.50	<0.50	<1.0							27.46	8.74	18.72	0.74/0.59
MW-11	11/18/2013	<50	<0.50	<0.50	<0.50	<1.0							27.46	10.32	17.14	0.90/0.45
MW-11	06/06/2014	<50	<0.50	<0.50	<0.50	<1.0							27.46	9.25	18.21	0.47/0.27
MW-11	12/01/2014	<50	<0.50	<0.50	<0.50	<1.0							27.46	10.63	16.83	0.45/0.30
MW-11	05/22/2015	Well inacces	ssible										27.46			
MW-11	12/18/2015	<50	<0.50	<0.50	<0.50	<1.0							27.46	10.93	16.53	1.58/2.88
MW-11	05/16/2016	<50	<0.50	<0.50	<0.50	<1.0							27.46	8.50	18.96	2.20/1.79
MW-11	12/08/2016	<50	<0.50	<0.50	<0.50	<1.0							27.46	9.16	18.30	0.37/0.28
MW-11	05/30/2017	<50	<0.50	<0.50	<0.50	<1.0							27.46	8.05	19.41	0.29/0.18

Well ID	Date	TPHg (μg/L)	Β (μg/L)	Τ (μg/L)	Ε (μg/L)	Χ (μg/L)	MTBE 8020 (μg/L)	MTBE 8260 (μg/L)	TBA (μg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (μg/L)	TOC (ft MSL)	Depth to Water (ft TOC)	GW Elevation (ft MSL)	DO (mg/L)
MW-12	05/19/2006												31.16	8.42	22.74	
MW-12	05/26/2006	<50.0	<0.500	<0.500	<0.500	<0.500		<0.500	<10.0	<0.500	<0.500	<0.500	31.16	8.44	22.72	3.88
MW-12	08/30/2006	746	<0.500	<0.500	<0.500	<0.500							31.16	9.54	21.62	1.75/1.81
MW-12	11/08/2006	<50	<0.50	<0.50	<0.50	<1.0							31.16	8.67	22.49	2.26/3.60
MW-12	02/22/2007	<50	<0.50	<1.0	<0.50	<1.0							31.16	7.72	23.44	1.60/2.91
MW-12	05/29/2007	<50 f	0.49 g	<1.0	0.14 g	0.48 g							31.16	9.00	22.16	0.60/0.61
MW-12	08/27/2007	<50 f	<0.50	<1.0	<1.0	<1.0							31.16	9.90	21.26	0.47/0.24
MW-12	11/08/2007	<50 f	<0.50	<1.0	<1.0	<1.0							31.16	9.90	21.26	3.8/3.1
MW-12	02/20/2008	<50 f	5.4	1.7	3.4	12.4							31.16	7.40	23.76	3.43/1.91
MW-12	05/01/2008	<50	<0.50	<1.0	<1.0	<1.0							31.16	9.20	21.96	0.09/0.13
MW-12	08/12/2008	<50	<0.50	<1.0	<1.0	<1.0							31.16	10.40	20.76	3.6/3.2
MW-12	11/26/2008	<50	<0.50	<1.0	<1.0	<1.0							31.16	10.59	20.57	1.80/1.32
MW-12	02/03/2009	<50	<0.50	<1.0	<1.0	<1.0							31.16	9.39	21.77	1.72/1.75
MW-12	06/02/2009	<50	<0.50	<1.0	<1.0	<1.0							31.16	9.20	21.96	0.77/1.41
MW-12	11/10/2009	<50	<0.50	<1.0	<1.0	<1.0							31.16	10.12	21.04	2.70/1.52
MW-12	05/10/2010	<50	<0.50	<1.0	<1.0	<1.0							31.16	8.41	22.75	2.65/1.42
MW-12	09/09/2010	Unable to lo	cate										31.16			
MW-12	12/03/2010	<50	<0.50	<1.0	<1.0	<1.0							31.16	9.32	21.84	0.74/1.29
MW-12	03/02/2011	Unable to lo	cate										31.16			
MW-12	05/31/2011	<50	<0.50	<0.50	<0.50	<1.0							31.16	8.80	22.36	0.59/0.91
MW-12	12/13/2011	<50	<0.500	<0.500	<0.500	<0.500							31.16	9.64	21.52	0.75/2.07
MW-12	06/13/2012	<50	<0.50	<0.50	<0.50	<1.0							31.16	9.31	21.85	0.61/1.79
MW-12	11/19/2012	Well inacces	ssible										31.16			
MW-12	05/30/2013	<50	<0.50	<0.50	<0.50	<1.0							31.16	9.40	21.76	0.68/0.72
MW-12	11/18/2013	<50	<0.50	<0.50	<0.50	<1.0							31.16	11.83	19.33	0.29/0.66
MW-12	06/06/2014	Well inacces	ssible										31.16			
MW-12	12/01/2014	Well inacces	ssible										31.16			
MW-12	05/22/2015	Well inacces	ssible										31.16			
MW-12	12/18/2015	Well inacces	ssible										31.16			

Well ID	Date	TPHg (μg/L)	Β (μg/L)	Τ (μg/L)	Ε (μg/L)	Χ (μg/L)	MTBE 8020 (μg/L)	MTBE 8260 (μg/L)	TBA (μg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (μg/L)	TOC (ft MSL)	Depth to Water (ft TOC)	GW Elevation (ft MSL)	DO (mg/L)
MW-12	05/16/2016	Well inacce	ssible										31.16			
MW-12	12/08/2016	Well inacces	ssible										31.16			
MW-12	05/30/2017	Well inacce	essible										31.16			
MW-13	04/16/2015												29.70	9.31	20.39	
MW-13	05/22/2015	4,100	430	5.9	16	<10							29.70	10.12	19.58	0.86/0.59
MW-13	08/14/2015	5,000	550	<5.0	8.5	<10							29.70	11.55	18.15	0.56/0.32
MW-13	12/18/2015	3,800	200	<2.5	3.9	<5.0							29.70	11.41	18.29	1.62/1.97
MW-13	03/17/2016	4,100	170	<5.0	<5.0	<5.0							29.70	5.03	24.67	0.24/0.31
MW-13	05/16/2016	5,400	370	<2.5	6.2	<5.0							29.70	8.91	20.79	0.72/1.01
MW-13	12/08/2016	4,700	450	<5.0	<5.0	<10							29.70	9.60	20.10	0.49/0.41
MW-13	05/30/2017	1,700	26	<2.5	<2.5	<5.0							29.70	8.48	21.22	0.34/0.28
MW-14	05/19/2006												28.09	6.95	21.14	
MW-14	05/26/2006	103,000	5,280	76.7	3,930	4,800 e		<5.00	895	49.7	<5.00	<5.00	28.09	7.05	21.04	3.60
MW-14	08/30/2006	10,200	1,260	12.5	1,310	1,330		<0.500	<10.0	<0.500	<0.500	<0.500	28.09	9.19	18.90	3.33/3.49
MW-14	11/08/2006	29,000	4,400 a	34	2,000	1,600							28.09	9.80	18.29	1.16/1.40
MW-14	02/22/2007	31,000	2,600	42	2,200	1,600							28.09	6.70	21.39	0.59/1.11
MW-14	05/29/2007	35,000 f	1,100	14	1,800	767							28.09	7.89	20.20	0.08/0.08
MW-14	08/27/2007	Well inacces	ssfble													
MW-14	08/29/2007	45,000 f	1,000	11	870	367.8 g		<10	<100	20	<20	<20	28.09	9.25	18.84	0.09/0.16
MW-14	11/08/2007	32,000 f	1,600	22	1,500	889							28.09	9.21	18.88	0.04/0.35
MW-14	02/20/2008	23,000 f	1,800	32	1,600	1,021							28.09	6.34	21.75	0.09/0.08
MW-14	05/01/2008	16,000	830	15	870	452							28.09	7.95	20.14	0.12/0.09
MW-14	08/12/2008	34,000	1,400	26	550	1,151		<10	<100	<20	<20	<20	28.09	14.10	13.99	0.03/0.38
MW-14	11/26/2008	Well inacces	ssible										28.09			
MW-14	02/03/2009	39,000	1,800	27	1,700	1,400							28.09	8.66	19.43	0.16/0.19
MW-14	06/02/2009	34,000	1,100	<25	1,200	710							28.09	8.21	19.88	0.16/0.26
MW-14	11/10/2009	39,000	2,300	35	2,100	1,200		<25	<250	<50	<50	<50	28.09	9.69	18.40	0.45/1.56

Well ID	Date	TPHq	В	т	E	x	MTBE 8020	MTBE 8260	ТВА	DIPE	ETBE	TAME	тос	Depth to Water	GW Elevation	DO
		(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 MSL)	(mg/L)
MW-14	05/10/2010	5,900	150	2.1	170	54							28.09	6.64	21.45	0.49/1.38
MW-14	09/09/2010	Well inacces	ssible										28.09			
MW-14	12/03/2010	84,000	1,800	39	1,900	1,100		<5.0	<50	27	<10	<10	28.09	9.10	18.99	0.50/0.67
MW-14	03/02/2011												28.09	5.60	22.49	
MW-14	05/31/2011	21,000	460	10	930	460							28.09	8.85	19.24	0.47/0.77
MW-14	12/13/2011	30,000	1,370	23.8	1,590	871		<0.500	<10.0	17.8	<0.500	<0.500	28.09	9.35	18.74	0.67/0.65
MW-14	06/13/2012	26,000	1,100	13	1,400	630							28.09	8.34	19.75	0.54/0.75
MW-14	11/19/2012	27,000	1,700	30	2,800	1,200		<5.0	<100	23	<5.0	<5.0	28.09	9.78	18.31	2.84/3.10
MW-14	05/30/2013	34,000	1,300	23	2,100	920							28.09	8.78	19.31	0.97/1.02
MW-14	11/18/2013	33,000	1,200	23	2,700	950		<10	<200	16	<10	<10	28.09	10.41	17.68	0.21/0.33
MW-14	06/06/2014	68,000	900	<50	2,800	680							28.09	8.77	19.32	0.20/0.27
MW-14	12/01/2014	36,000	1,600	24	2,700	700		<20	<400	<20	<20	<20	28.09	9.50	18.59	0.18/0.25
MW-14	05/22/2015	5,200	320	<10	490	120							28.09	9.08	19.01	1.04/0.96
MW-14	12/18/2015	18,000	1,200	<20	2,000	450		<20	<400	<20	<20	<20	28.09	10.43	17.66	2.83/3.17
MW-14	05/16/2016	15,000	950	<25	1,100	200							28.09	7.71	20.38	2.18/3.03
MW-14	12/08/2016	28,000	650	11	990	140		<10	<200	<10	<10	<10	28.09	8.49	19.60	0.86/0.83
MW-14	05/30/2017	2,400	1.9	<0.50	1.1	<1.0	-						28.09	7.05	21.04	0.74/0.65
V-1	08/02/1996												23.26			
V-1	08/05/1996												23.26	8.58	14.68	
V-1	10/17/1996												23.26	10.02	13.24	
V-1	01/16/1997	9,500	1,200	250	280	880	<50						23.26	5.55	17.71	
V-1	04/07/1997	2,200	42	<5.0	130	15	<25						23.26	7.40	15.86	
V-1	07/02/1997	2,600	340	5.8	49	12	74	<4.0					23.26	8.94	14.32	
V-1	10/24/1997	57,000	5,200	2,300	3,600	16,000	1,900	<200					23.26	9.43	13.83	
V-1	01/09/1998	23,000	2,400	1,700	1,300	2,300	310						23.26	6.81	16.45	
V-1 (D)	01/09/1998	24,000	2,500	1,800	1,400	2,400	450						23.26			
V-1	04/02/1998	<50	<0.50	<0.50	<0.50	<0.50	<2.5						23.26	4.58	18.68	
V-1 (D)	04/02/1998	<50	<0.50	<0.50	<0.50	<0.50	<2.5						23.26			

Well ID	Date	TPHg (μg/L)	Β (μg/L)	Τ (μg/L)	Ε (μg/L)	Χ (μg/L)	MTBE 8020 (μg/L)	MTBE 8260 (µg/L)	TBA (μg/L)	DIPE (µg/L)	ETBE (μg/L)	TAME (μg/L)	TOC (ft MSL)	Depth to Water (ft TOC)	GW Elevation (ft MSL)	DO (mg/L)
V-1	07/14/1998	160	1.9	<0.50	4.2	<0.50	6.1						23.26	7.51	15.75	
V-1	10/01/1998	440	18	<0.50	11	0.80	7.9						23.26	8.49	14.77	
V-1	01/18/1999	697	55.7	0.839	28.2	<0.500	9.35						23.26	8.59	14.67	
V-1	04/29/1999	<50	<0.50	<0.50	<0.50	<0.50	<2.5						23.26	8.69	14.57	
V-1	08/23/1999	457	33.4	3.59	16.3	<0.500	13.9						23.26	8.99	14.27	
V-1	10/06/1999	714	53.7	0.740	8.69	<0.500	9.83						23.26	9.55	13.71	
V-1	01/27/2000	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50						23.26	7.19	16.07	
V-1	04/18/2000	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50						23.26	7.67	15.59	
V-1	07/19/2000	255	21.7	<0.500	10.2	<0.500	7.33	<1.00 a					23.26	7.53	15.73	
V-1	10/24/2000	200	4.05	0.566	<0.500	<0.500	7.82						23.26	7.38	15.88	
V-1	01/04/2001	128	1.77	<0.500	<0.500	<0.500	6.40	<10.0					23.26	8.41	14.85	
V-1	05/03/2001	<50	<0.50	<0.50	<0.50	<0.50		<5.0					23.26	7.20	16.06	
V-1	07/09/2001	110	4.4	<0.50	0.88	1.7		<5.0					23.26	9.22	14.04	
V-1	10/18/2001	1,500	180	12	43	46		<5.0					23.26	10.08	13.18	0.8
V-1	01/24/2002	210	7.1	15	4.6	32		<5.0					23.26	6.44	16.82	3.5
V-1	04/04/2002	<50	<0.50	<0.50	<0.50	<0.50		<5.0					23.26	6.18	17.08	1.0
V-1	07/18/2002	100	1.6	1.2	1.2	6.1		<5.0					23.26	8.08	15.18	1.7
V-1	10/21/2002	210	1.4	<0.50	1.0	1.3		<5.0					29.26	8.94	20.32	1.2
V-1	01/21/2003	61	5.2	<0.50	<0.50	<0.50		<5.0					29.26	6.62	22.64	0.6
V-1	04/17/2003	<50	<0.50	<0.50	<0.50	1.2		<5.0					29.26	6.00	23.26	1.3
V-1	07/22/2003	Well inacce	ssible										29.26			
V-1	10/20/2003	540	11	1.6	6.0	8.9		<0.50					29.26	9.53	19.73	0.1
V-1	01/13/2004	<50	<0.50	<0.50	<0.50	<1.0		<0.50					29.26	6.62	22.64	
V-1	01/22/2004												29.26	9.08	20.18	0.1
V-1	04/01/2004	<50	<0.50	<0.50	<0.50	<1.0							29.26	6.24	23.02	0.1
V-1	07/13/2004	120	1.8	<0.50	<0.50	<1.0		<0.50	<5.0	<2.0	<2.0	<2.0	29.26	8.78	20.48	0.1
V-1	10/26/2004	<50	<0.50	<0.50	<0.50	<1.0							29.26	8.09	21.17	0.6
V-1	01/13/2005	<50	<0.50	<0.50	<0.50	<1.0							29.26	4.30	24.96	0.1
V-1	04/28/2005	<50	<0.50	<0.50	<0.50	<1.0							29.26	5.27	23.99	3.34

Well ID	Date	TPHg (µg/L)	Β (μg/L)	Τ (μg/L)	Ε (μg/L)	Χ (μg/L)	MTBE 8020 (μg/L)	MTBE 8260 (μg/L)	ΤΒΑ (μg/L)	DIPE (µg/L)	ETBE (μg/L)	TAME (μg/L)	TOC (ft MSL)	Depth to Water (ft TOC)	GW Elevation (ft MSL)	DO (mg/L)
V-1	08/01/2005	54	<0.50	<0.50	<0.50	<1.0		<0.50	<5.0	<2.0	<2.0	<2.0	29.26	7.77	21.49	
V-1	10/05/2005	120 c	<0.50	<0.50	<0.50	<1.0							29.26	8.72	20.54	1.67
V-1	01/11/2006	<50	<0.50	<0.50	<0.50	<0.50		<0.50	<5.0	<0.50	<0.50	<0.50	29.24	4.78	24.46	0.3
V-1	05/26/2006	<50.0	<0.500	<0.500	<0.500	1.02 e		<0.500	<10.0	<0.500	<0.500	<0.500	29.24	6.61	22.63	1.94
V-1	08/30/2006	5,660	6.81	1.39	27.3	21.0		<0.500	<10.0	<0.500	<0.500	<0.500	29.24	8.46	20.78	0.33/0.33
V-1	11/08/2006	1,300	3.7	1.5	5.1	6.9							29.24	8.95	20.29	0.05/0.11
V-1	02/22/2007	<50	<0.50	<1.0	<0.50	<1.0							29.24	6.17	23.07	0.76/0.99
V-1	05/29/2007	650 f	0.64	<1.0	1.2	0.95 g							29.24	7.21	22.03	0.69/0.74
V-1	08/27/2007	510 b, f	0.24	<1.0	<1.0	<1.0		<1.0	<10	<2.0	<2.0	<2.0	29.24	8.78	20.46	0.12/0.57
V-1 d	11/08/2007	2,000 f	19	2.9	23	18.5							29.24	8.41	20.83	0.61/1.54
V-1	02/20/2008	54 f	<0.50	<1.0	<1.0	<1.0							29.24	5.11	24.13	0.13/0.22
V-1	05/01/2008	280	0.57	<1.0	<1.0	<1.0							29.24	7.60	21.64	0.08/0.08
V-1	08/12/2008	390	0.80	<1.0	<1.0	1.1		<1.0	<10	<2.0	<2.0	<2.0	29.24	9.00	20.24	0.81/1.51
V-1	11/26/2008	3,300	46	8.3	62	44.2							29.24	9.50	19.74	0.76/1.28
V-1	02/03/2009	450	0.98	<1.0	1.7	<1.0							29.24	8.18	21.06	0.13/0.39
V-1	06/02/2009	230	<0.50	<1.0	1.3	<1.0							29.24	7.45	21.79	0.25/0.31
V-1	11/10/2009	900	3.1	<1.0	6.5	2.0		<1.0	<10	<2.0	<2.0	<2.0	29.24	8.91	20.33	0.84/0.56
V-1	05/10/2010	81	<0.50	<1.0	<1.0	<1.0							29.24	5.94	23.30	0.17/0.43
V-1	09/09/2010												29.24	8.95	20.29	
V-1	12/03/2010	560	1.1	<1.0	3.2	<1.0		<1.0	<10	<2.0	<2.0	<2.0	29.24	8.25	20.99	0.47/0.95
V-1	03/02/2011												29.24	4.18	25.06	
V-1	05/31/2011	160	<0.50	<0.50	0.57	<1.0							29.24	6.82	22.42	0.69/1.26
V-1	12/13/2011	1,300	1.09	<0.500	5.63	0.980		<0.500	<10.0	<0.500	<0.500	<0.500	29.24	8.37	20.87	0.94/0.81
V-1	06/13/2012	410	0.63	<0.50	3.9	<1.0							29.24	7.52	21.72	1.65/1.73
V-1	11/19/2012	57	<0.50	<0.50	<0.50	<1.0		<0.50	<10	<0.50	<0.50	<0.50	29.24	8.35	20.89	1.48/1.37
V-1	05/30/2013	710	1.8	<0.50	9.3	<1.0							29.24	7.93	21.31	0.44/0.85
V-1	11/18/2013	610	1.7	<0.50	1.5	<1.0		<0.50	<10	<0.50	<0.50	<0.50	29.24	9.33	19.91	0.14/0.13
V-1	06/06/2014	410	1.7	<0.50	5.1	<1.0							29.24	7.85	21.39	0.11/0.65
V-1	12/01/2014	50	<0.50	<0.50	<0.50	<1.0		<0.50	<10	<0.50	<0.50	<0.50	29.24	8.45	20.79	0.10/0.60

Well ID	Date	TPHg (µg/L)	Β (μg/L)	Τ (μg/L)	Ε (μg/L)	Χ (μg/L)	MTBE 8020 (μg/L)	MTBE 8260 (μg/L)	ΤΒΑ (μg/L)	DIPE (µg/L)	ETBE (μg/L)	TAME (μg/L)	TOC (ft MSL)	Depth to Water (ft TOC)	GW Elevation (ft MSL)	DO (mg/L)
V-1	05/22/2015	500	1.1	<0.50	2.3	<1.0							29.24	8.10	21.14	0.15/0.61
V-1	12/18/2015	540	2.1	<0.50	9.2	6.9		<0.50	<10	<0.50	<0.50	<0.50	29.24	9.53	19.71	1.22/3.49
V-1	05/16/2016	60	<0.50	<0.50	<0.50	<1.0							29.24	6.74	22.50	0.81/0.70
V-1	12/08/2016	<50	<0.50	<0.50	<0.50	<1.0		<0.50	<10	<0.50	<0.50	<0.50	29.24	6.31	22.93	1.53/1.63
V-1	05/30/2017	<50	<0.50	<0.50	<0.50	<1.0							29.24	6.91	22.33	1.26/1.37
V-2	08/02/1996												22.80			
V-2	08/05/1996												22.80	7.94	14.86	
V-2	10/17/1996												22.80	9.30	13.50	
V-2	01/08/1997	69,000	4,800	2,800	2,700	13,000	750						22.80	5.82	16.98	
V-2	04/07/1997	90,000	4,400	1,900	3,300	14,000	<500						22.80	7.10	15.70	
V-2 (D)	04/07/1997	77,000	4,400	2,000	3,200	14,000	<250						22.80			
V-2	07/02/1997	82,000	5,500	2,700	3,500	16,000	530	<100					22.80	8.35	14.45	
V-2 (D)	07/02/1997	85,000	5,600	2,800	3,600	17,000	520	<100					22.80			
V-2	10/24/1997	7,300	1,100	97	230	180	91	<12					22.80	10.03	12.77	
V-2 (D)	10/24/1997	12,000	1,700	340	650	630	120	<20					22.80			
V-2	01/09/1998	40,000	4,100	1,500	2,500	9,000	280						22.80	6.94	15.86	
V-2	04/02/1998	62,000	6,800	2,400	3,400	14,000	<250						22.80	5.35	17.45	
V-2	07/14/1998	43,000	4,700	1,100	2,500	6,600	<250						22.80	6.48	16.32	
V-2 (D)	07/14/1998	48,000	5,100	1,300	2,600	8,100	<250						22.80			
V-2	10/01/1998	53,000	5,200	1,800	3,200	10,000	83						22.80	8.41	14.39	
V-2 (D)	10/01/1998	55,000	5,300	1,900	3,300	11,000	65						22.80			
V-2	01/18/1999	47,100	5,800	1,960	3,450	10,200	<100						22.80	8.29	14.51	
V-2	04/29/1999	65,000	6,100	2,800	3,200	12,000	540						22.80	8.19	14.61	
V-2	08/23/1999	59,600	6,240	2,190	3,900	14,700	390						22.80	8.44	14.36	
V-2	10/06/1999	63,800	4,820	1,860	2,840	11,100	<1000						22.80	8.96	13.84	
V-2	01/27/2000	59,600	10,200	2,840	3,450	12,100	<500						22.80	7.57	15.23	
V-2	04/18/2000	45,000	6,050	2,700	3,340	12,200	<250						22.80	8.14	14.66	
V-2	07/19/2000	31,800	4,440	1,270	2,390	6,820	<500						22.80	8.21	14.59	

Well ID	Date	TPHg (μg/L)	Β (μg/L)	Τ (μg/L)	Ε (μg/L)	Χ (μg/L)	MTBE 8020 (μg/L)	MTBE 8260 (μg/L)	TBA (μg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (μg/L)	TOC (ft MSL)	Depth to Water (ft TOC)	GW Elevation (ft MSL)	DO (mg/L)
V-2	10/24/2000	40,100	4,810	1,730	2,960	8,650	734	<10.0					22.80	8.53	14.27	
V-2	01/04/2001	37,500	4,510	1,390	2,710	6,880	375						22.80	8.03	14.77	
V-2	05/03/2001	51,000	4,000	1,900	2,800	8,200		<200					22.80	6.63	16.17	
V-2	07/09/2001	9,600	710	190	180	1,400		<25					22.80	8.75	14.05	
V-2	10/18/2001	20,000	2,000	540	560	6,000		<50					22.80	9.60	13.20	0.4
V-2	01/24/2002	36,000	2,900	870	1,700	5,900		<100					22.80	5.93	16.87	4.0
V-2	04/04/2002	49,000	3,900	1,500	2,900	9,300		<200					22.80	5.78	17.02	0.9
V-2	07/18/2002	50,000	3,600	1,300	2,800	9,300		<200					22.80	7.58	15.22	1.3
V-2	10/21/2002	86,000	6,000	1,900	4,200	20,000		<250					28.80	8.40	20.40	1.3
V-2	01/21/2003	13,000	630	200	300	2,400		<25					28.80	6.52	22.28	1.2
V-2	04/17/2003	26,000	2,000	570	750	6,000		<100					28.80	5.93	22.87	1.1
V-2	07/22/2003	6,800	130	34	150	440		<2.5					28.80	7.96	20.84	1.4
V-2	10/20/2003	14,000	660	160	260	2,400		<10					28.80	9.21	19.59	0.7
V-2	01/13/2004	20,000	1,400	410	700	4,200		<13					28.80	6.90	21.90	
V-2	01/22/2004												28.80	8.50	20.30	0.1
V-2	04/01/2004	28,000	2,000	520	650	8,700							28.80	6.84	21.96	0.2
V-2	07/13/2004	21,000	1,900	460	1,000	4,300							28.80	8.28	20.52	0.1
V-2	10/26/2004	43,000	2,700	880	2,300	12,000							28.80	8.43	20.37	0.8
V-2	01/13/2005	23,000	1,400	330	1,800	5,800							28.80	6.67	22.13	0.6
V-2	04/28/2005	16,000	970	230	620	3,800							28.80	5.69	23.11	4.55
V-2	08/01/2005	14,000	610	190	450	3,600							28.80	5.25	23.55	
V-2	10/05/2005	37,000	2,200	680	2,300	8,500							28.80	8.24	20.56	0.75
V-2	01/11/2006	45,000 a	1,900 a	720 a	3,000 a	13,000 a		<25 a	<250 a	<25 a	<25 a	<25 a	28.81	6.60	22.21	0.4
V-2	05/26/2006	66,600	1,300	400	2,950	9,700 e		<0.500	<10.0	<0.500	<0.500	<0.500	28.81	6.28	22.53	0.28
V-2	08/30/2006	7,290	2,390	750	4,680	17,000							28.81	8.03	20.78	0.37/0.31
V-2	11/08/2006	68,000	1,700	580	3,900	13,000							28.81	8.60	20.21	0.05/0.14
V-2	02/22/2007	57,000	1,300	600	4,000	15,000							28.81	5.88	22.93	1.23/2.50
V-2	05/29/2007	48,000 b,f	2,000	650	3,300	10,000							28.81	6.82	21.99	0.07/0.12
V-2	08/27/2007	55,000 f	1,600	520	2,900	8,000							28.81	8.22	20.59	0.22/0.48

Groundwater Data Former Shell Service Station, 2703 Martin Luther King Jr. Way, Oakland, California

Well ID	Date	TPHg (µg/L)	Β (μg/L)	Τ (μg/L)	Ε (μg/L)	Χ (μg/L)	MTBE 8020 (μg/L)	MTBE 8260 (μg/L)	TBA (μg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (μg/L)	TOC (ft MSL)	Depth to Water (ft TOC)	GW Elevation (ft MSL)	DO (mg/L)
V-2 d	11/08/2007	74,000 f	1,300	500	3,000	9,600							28.81	8.82	19.99	0.87/1.46
V-2	02/20/2008	52,000 f	1,200	560	3,200	12,400							28.81	5.13	23.68	0.16/0.05
V-2	05/01/2008	53,000	960	350	3,000	9,600							28.81	7.25	21.56	0.06/0.05
V-2	08/12/2008	55,000	950	230	2,700	6,030							28.81	8.50	20.31	0.53/1.47
V-2	11/26/2008	71,000	1,400	430	3,900	10,400							28.81	9.08	19.73	0.66/1.62
V-2	02/03/2009	81,000	1,100	340	3,700	11,000							28.81	7.78	21.03	0.48/0.15
V-2	06/02/2009	78,000	920	350	3,500	9,200							28.81	6.90	21.91	0.19/0.26
V-2	11/10/2009	66,000	890	310	3,400	7,900							28.81	8.62	20.19	0.44/0.98
V-2	05/10/2010	28,000	490	160	2,200	4,800							28.81	5.63	23.18	0.18/0.28
V-2	09/09/2010												28.81	8.49	20.32	
V-2	12/03/2010	31,000	640	210	2,600	4,300							28.81	7.90	20.91	0.86/1.16
V-2	03/02/2011												28.81	3.95	24.86	
V-2	05/31/2011	36,000	510	180	3,600	6,700							28.81	6.55	22.26	0.47/0.92
V-2	12/13/2011	51,000	652	129	3,760	5,040							28.81	7.96	20.85	0.60/1.51
V-2	06/13/2012	44,000	540	150	4,300	5,000							28.81	7.08	21.73	0.91/1.36
V-2	11/19/2012	43,000	530	170	4,100	5,700							28.81	8.73	20.08	0.99/0.82
V-2	05/30/2013	35,000	480	130	3,900	4,000							28.81	7.49	21.32	0.44/1.21
V-2	11/18/2013	45,000	460	140	4,500	4,400							28.81	9.33	19.48	0.19/1.33
V-2	06/06/2014	65,000	420	130	5,400	4,800							28.81	7.40	21.41	0.89/1.13
V-2	12/01/2014	42,000	470	140	3,900	3,600							28.81	9.42	19.39	0.62/0.74
V-2	12/18/2015	34,000	400	99	4,700	2,100							28.81	9.35	19.46	0.82/1.83
V-2	05/16/2016	29,000	210	53	3,600	2,500							28.81	6.27	22.54	0.86/0.82
V-2	12/08/2016	29,000	270	76	4,500	2,200							28.81	6.88	21.93	0.56/0.73
V-2	05/30/2017	20,000	170	50	2,200	940							28.81	6.19	22.62	0.41/0.59

Notes: See following page.

Notes:

BTEX	=	Benzene, toluene, ethylbenzene, and total xylenes analyzed by EPA Method 8260B; prior to May 3, 2001, analyzed by EPA Method 8020.
DIPE	=	Di-isopropyl ether analyzed by EPA Method 8260B
ETBE	=	Ethyl tertiary-butyl ether analyzed by EPA Method 8260B
MTBE	=	Methyl tertiary-butyl ether analyzed as noted
TAME	=	Tertiary-amyl methyl ether analyzed by EPA Method 8260B
ТВА	=	Tertiary-butyl alcohol analyzed by EPA Method 8260B
TPHg	=	Total petroleum hydrocarbons as gasoline analyzed by EPA Method 8260B; prior to May 3, 2001, analyzed by EPA Method 8015 unless otherwise noted.
	=	Not analyzed or available
µg/L	=	Micrograms per liter
<x.xx< td=""><td>=</td><td>Not detected at or above reporting limit X.XX</td></x.xx<>	=	Not detected at or above reporting limit X.XX
(D)	=	Duplicate sample
DO	=	Dissolved oxygen concentrations in mg/L (Pre-purge/Post-purge)
ft	=	Feet
GW	=	Groundwater
mg/L	=	Milligrams per liter
MSL	=	Mean sea level
тос	=	Top of casing elevation, in feet relative to mean sea level
а	=	Sample analyzed outside of EPA recommended holding time.
b	=	Hydrocarbon does not match pattern of laboratory's standard.
с	=	Quantity of unknown hydrocarbon(s) in sample based on gasoline.
d	=	Samples were switched in the field for wells V-1 and V-2 due to field error. Data corrected for this table.
е	=	Analyte was detected in the associated Method Blank.
f	=	Analyzed by EPA Method 8015B (M).
g	=	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
h	=	Concentration reported is due to the presence of discrete peaks of xylenes.
i	=	
0:40		
		surveyed June 14, 2001 by Virgil Chavez Land Surveying
		surveyed August 13, 2002 by Virgil Chavez Land Surveying
VVelis	VIV/	-1 through MW-8, V-1, and V-2 surveyed on February 14, 2006 by Virgil Chayez Land Surveying

Wells MW-1 through MW-8, V-1, and V-2 surveyed on February 14, 2006 by Virgil Chavez Land Surveying

Wells MW-12 and MW-14 surveyed on April 19, 2006 by Virgil Chavez Land Surveying

Wells MW-9, MW-10, and MW-11 surveyed on August 18, 2010 by Virgil Chavez Land Surveying

Appendix A

Field Notes (Blaine Tech Services, Inc.)

WELL GAUGING DATA

Project # 170530-GR2 Date 5/30/17 Client AECOM

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Site 2703 MARTIN LUTHER KING JR. WAY - OAKLAND, CA

Γ	- <u>T</u>	1		T	Thickness	Volume of	1	T	0	1
		Well		Depth to	of	Immiscibles	1		Survey Point:	
		Size	Sheen /		Immiscible	1	Depth to water	Depth to well	TOB or	·
Well ID	Time	(in.)	Odor		Liquid (ft.)		(ft.)	bottom (ft.)	TOC	Notes
	<u>` </u>	1	· · · · · · · · · · · · · · · · · · ·							· · · · ·
MW-1	1100	2					7.36	19.80		G.O.
										GI.U.
mw-2	1105	2					7.35	18.62		CA
	-									G. O.
MW-3	nio	4					7.29	20.02		G. O.
			· ·							G, O_{v}
mw-4	1135	4					6.12	19.94		
11W-1	+									
MW-5	1150	4					7.33	19.91		
mws		<u> </u>				·····				
MW-6	1125	4	SHEEN				6.22	14.60		
11W-6		·····	1000r				0.00			
	1140	4	·				7.44	16 / 1		
mw-7	1170						2	19.60		
	1130	4					7.32	19.55		
mw-8	(())						1.50	(1.))		
				.						
MW-9			UNABLE	TO LO.	LATE.	MAY BE	BURRTSD.	ONSTRUCTION		
	•	1.1								
MW-10	1418	4						19,99		
		4					2			
MW-11.	1421	7					8.05	19.65		
MW-12			UNABLE	TO ACC	ESS. PA	RKEDO	WER. GATE	LOCKED.		
		0			• •					
MW-13	1100	2						19.87		
	. 1									
MW-14	1105							14,10		
	· ·									
V-1	1120	2					6.91	13.11		
V-2	1145	21	GOOR				6.19	(3.29	\downarrow	
			000						<u> </u>	
L	<u> </u>		I			L_		<u>_</u>	L.]

Equ	ilon Ente	erprises	s LLC dba She	ll Oil P	roducts	US (Lquilon)) Field Data Sheet
BTS #:	170530	. GRZ	/	Site:	9709	33 97	
Sampler:	DH			Date	: 5130)		
Well I.D.:		•				er: 2 3 (4 6 8
Total Well	Depth (T	D): 10	4.94	Dept	h to Wat	er (DTW): ζ	or (2
Depth to F	ree Produc	ct:		Thicl	cness of I	Free Product (feet):
Referenced	ł to:	PVC	Grade	D.O.	Meter (i	f req'd):	YSI) HACH
DTW with	80% Recl	narge [(Height of Wate	r Colun	nn x 0.20)) + DTW]:	8.08
Purge Method:	Bailer Disposable I Positive Air Electric Sub	Displacen	nent Extra Other	Water Peristalt action Pum	ic	Sampling Methe Oth	Disposable Bailer Extraction Port Dedicated Tubing
9.0 1 Case Volume	Gals.) XSpec	ے ified Volu	$= \frac{27.0}{Calculated Vol$	_Gals.	1" 2" 3"	0.04 4" 0.16 6"	0.65
Time	Temp (°F)	pH	Cond. (mS or (uS)		bidity TUs)	Gals. Removed	l Observations
1225	65.4	6.70	619	2	27	9.0	
1227	65.7	6.66	904	2	24	18,0	
	weel	dev	atore @			20.0	
						,	
1420	64.0	6.69	750	2	9	Grab	
Did well dev	vater?	Yes	No	Gallon	s actually	vevacuated: 2	20.0
Sampling Da	ate: 51301,	7	Sampling Time	-147	0	Depth to Wate	r:
ample I.D.:	Mw-	4		Labora	tory:	Test America	Other
analyzed for	: TPH-G	BTEX	MTBE TPH-D	Oxygena	tes (5)	Other: See (0	<
B I.D. (if ap	oplicable):		@ Time]	Duplica	te I.D. (i	f applicable):	
nalyzed for	: TPH-G	BTEX	MTBE TPH-D (Oxygena	tes (5) (Other:	···
0.O. (if req'd): Pre	-purge:	5.49	^{mg} / _L	Ро	st-purge:	^{- mg} /L
R.P. (if req	('d): Pre	-purge:		mV	Po	st-purge:	mV

Equ	uilon Ente	rprises	LLC dba She	ll Oil I	Products	US (Lquilon)	Field Data Sheet			
BTS #:	170530-	-07-1		Site	97093	33a7				
Sampler:	D ff			Date	: 5l3	olin.				
Well I.D.:	mw-S			Wel	l Diamete	er: 2 3 🤇	4) 6 8			
Total Well	Depth (T	D): {	4.91	Dept	Depth to Water (DTW): 7.33					
Depth to F	ree Produc	et:		Thic	kness of]	Free Product (feet):			
Referenced	d to:	pvc	Grade	D.O.	Meter (it	f req'd):	(YSI) HACH			
DTW with	80% Rech	narge [(]	Height of Wate	r Colui	nn x 0.20)) + DTW]:	7.85			
Purge Method:	Bailer Disposable I Positive Air Electric Sub	Displacem	ent Extra Other	Water Peristali ction Pun	tic np 	Sampling Metho	Disposable Bailer Extraction Port Dedicated Tubing			
<u><u><u></u> 1 Case Volume</u></u>	Gals.) X Speci	<u>ි</u> ified Volum	$\frac{1}{\text{nes}} = \frac{2 9.6}{\text{Calculated Vol}}$		<u>Well Diamet</u> 1" 2" 3"	er Multiplier We 0.04 4" 0.16 6" 0.37 Oth	Il Diameter Multiplier 0.65 1.47 er radius ² * 0.163			
Time	Temp (°F)	pH	Cond. (mS or µS)	1	rbidity ITUs)	Gals. Removed	Observations			
· · · ·				<u> </u>	16	8.5				
1253	64.9	6.02	1263		3	υ., η,υ	odor			
1255		6.00				25.0				
, , , , , , , , , , , , , , , , , , , ,	64.6	6.76	1251		4		oca			
Did well dev	vater?	Yes (No	Gallon	s actually	v evacuated:	25.0			
Sampling Da	ate: 5/301	η	Sampling Time	: 130	5	Depth to Wate	r: 7.47			
Sample I.D.:	MW-	5]	Labora	tory:	Test America	Other			
Analyzed for	: TPH-G	BTEX	MTBE TPH-D (Oxygena	ates (5)	Other: Sec	(oc			
EB I.D. (if ap	oplicable):		@ Time]	Duplic	ate I.D. (i	f applicable):				
Analyzed for	: TPH-G	BTEX I	mtbe tph-d (Dxygena	utes (5)	Other:				
D.O. (if req'd): Pre	-purge:	4.23	^{mg} /L	Pos	st-purge:	078 ^{mg} /L			
).R.P. (if req	'd): Pre	-purge:		mV	Pos	st-purge:	mV			

Equ	ilon Ente	rprises	LLC dba She	ll Oil P	roducts	US (Equilon)	Field Data Sheet			
BTS #:	170530-	GRZ		Site:	n0933	597				
Sampler:	рн			Date	Date: 5/30/10					
Well I.D.:	MW-6			Well	Diamete	er: 2 3 @	0) 6 8			
Total Well	Depth (TI	D): \	4.60	Dept	h to Wat	er (DTW): 🤇				
Depth to F	ree Produc	et:		Thic	kness of]	Free Product (feet):			
Referenced	l to:	PVC	Grade	D.O.	Meter (it	f req'd):	YSI) HACH			
DTW with	80% Rech	arge [(I	Height of Wate	r Colur	nn x 0.20)) + DTW]: 6	.90			
Purge Method:	Bailer Disposable E Positive Air Electric Subr	Displacem	ent Extra Other	Water Peristalt action Pun	ic	Sampling Metho	Disposable Bailer Extraction Port Dedicated Tubing			
8.7 I Case Volume	Gals.) X Speci	ろ fied Volur	$\frac{1}{1} = \frac{26.1}{\text{Calculated V}}$	Gals. olume	Well Diamet 1" 2" 3"	ter <u>Multiplier We</u> 0.04 4" 0.16 6" 0.37 Oth	Il Diameter Multiplier 0.65 1.47 her radius ² * 0.163			
Time	Temp (°F)	pH	Cond. (mS or(µS))	1	rbidity (TUs)	Gals. Removed	Observations			
1320	64.1	-7.76	297		42	9.0				
1323	63.9	7.45	362	27 18.0		18-0				
	Well	chow	atered C			20.0				
					•					
1435	62-7	7.39	318	2	»6	Grab				
Did well dev	water?	Yes	No	Gallon	s actuall	y evacuated:	20-0			
Sampling Da	ate: 5130	1.7	Sampling Time	e: 14	35	Depth to Wate	r: 8.83			
Sample I.D.:	ample I.D.: MW-& Laboratory: Test America Other									
Analyzed for	r: TPH-G	BTEX	MTBE TPH-D	Oxygen	ates (5)	Other: Secto	C			
EB I.D. (if a	pplicable):		@ Time	Duplic	ate I.D. (if applicable):				
Analyzed for	: TPH-G	BTEX	MTBE TPH-D	Oxygen	ates (5)	Other:	2 ^{mg} /,			
0.0. (if req'o	l): Pre	e-purge:	3-87	^{mg} /L	^{mg} / _L Post-purge: 3					
).R.P. (if rec	q'd): Pre	-purge:		mV	Po	st-purge:	mV			

Equ	ilon Ente	rprises	LLC dba She	ll Oil I	Products	US (Equilon)	Field Data Sheet			
BTS #:	(10530-6	r1		Site	9700	(3397)				
Sampler:	ЮH			Date	: 5B	olin.	·			
Well I.D.:	MW-7			Wel	l Diamet	er: 2 3 🤅	4) 6 8			
Total Well	Depth (T	D):	4.64	Dept	Depth to Water (DTW): 7.44					
Depth to F	ree Produc	et:		Thic	Thickness of Free Product (feet):					
Referenced	l to:	PVC	Grade	D.O.	Meter (i	f req'd):	YSI HACH			
DTW with	80% Rech	narge [(]	Height of Wate	r Colu	nn x 0.2	0) + DTW]:	7.88			
Purge Method:	Bailer Disposable I Positive Air Electric Subi	Displacem	ent Extra Other	Water Peristal action Pun	tic ap 	Sampling Methe	Disposable Bailer Extraction Port Dedicated Tubing er:			
<u>م</u> ر (۱ Case Volume	Gals.) X Speci	<u>3</u> ified Volur	$\frac{1}{\text{mes}} = \frac{24.0}{\text{Calculated Ve}}$		Well Diame 1" 2" 3"	0.04 4" 0.16 6"	ell Diameter Multiplier 0.65 1.47 her radius ² * 0.163			
Time	Temp (°F)	pH	Cond. (mS or µS)	1	rbidity ITUs)	Gals. Removed	d Observations			
1200	63.1	7.01	517		33	8.0				
1203	62.9	6.87	868	6	60	16.0				
	Well	deva	tod C			19.0				
1350	64.1	7.08	697	Ĺ	+5 ⁻	Grat				
Did well dev	vater?	Yes	No	Gallon	s actuall	y evacuated:	19.0			
ampling Da	ampling Date: 5/20/17 Sampling Time: 1350 Depth to Water: 8.08									
ample I.D.:	MW.7			Labora	tory:	TestAmerica	Other			
nalyzed for	: TPH-G	BTEX	MTBE TPH-D	Oxygen	ates (5)	Other: Sal (un	د			
B I.D. (if ap	oplicable):		@ . Time .	Duplic	ate I.D. ((if applicable):				
Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other:										
.O. (if req'd): Pre	-purge:	4.08	mg/L	Po	ost-purge:	2.12 mg/L			
.R.P. (if req	('d): Pre	-purge:		mV	Ро	ost-purge:	mV			

Equ	ilon Ente	rprises	LLC dba She	ll Oil P	roducts	US (Lquilon)	Field Data Sheet
BTS #:	170530	5- GR	(Site:	9709	3347	
Sampler:	D1	}		Date	: 5/30	>(17.	
Well I.D.:	MW-8	š .		Well	Diamete	er: 2 3 🦉	6 8
Total Well	Depth (TI): \	9.55	Dept	h to Wat	er (DTW): ٦.૬	52
Depth to F	ree Produc	:t:		Thick	mess of	Free Product (1	feet):
Referenced	l to:	eve	Grade	D.O.	Meter (i	f req'd):	KSD HACH
DTW with	80% Rech	arge [(I	Height of Wate	r Colun	nn x 0.2(() + DTW]: c	1.77
Purge Method:	Bailer Disposable E Positive Air J Electric Subr	Displacem	ent Extra Other	Watern Peristalt action Pum	ic		Disposable Bailer Extraction Port Dedicated Tubing er:
<u> </u>	Gals.) X Speci	3 fied Volun	$\frac{d}{dec} = \frac{\mathcal{U}_{1} \diamond}{Calculated V_{0}}$	Gals. olume	1" 2" 3"	0.04 4" 0.16 6" 0.37 Oth	0.65 1.47 ner radius ² * 0.163
Time	Temp (°F)	pH	Cond. (mS or µS)	1	rbidity TUs)	Gals. Removed	Observations
1213	61.7	7.17	298		97	8.0	
1215	61,9	7.01	318	101 46.0			
1217	Bj.y	G. 89	333		63	24.0	
Did well dev	vater?	Yes (No	Gallon	s actuall	y evacuated:	24.0
Sampling Da	ate: 51301	.1)	Sampling Time	: 122	0	Depth to Wate	r: 7.98
Sample I.D.:	Mw - {	3		Labora	tory:	Test America	Other
Analyzed for	TPH-G	BTEX	MTBE TPH-D	Oxygena	ates (5)	Other: See	5 <u>6</u> C
EB I.D. (if a _l	oplicable):		@ Time	Duplic	ate I.D. (if applicable):	
Analyzed for	: TPH-G	BTEX	MTBE TPH-D	Oxygena	ates (5)	Other:	
D.O. (if req'd	l): Pre	-purge:	1.21	^{mg} / _L	Ро	ost-purge:	0.73 ^{mg} /L
D.R.P. (if rec	l'd): Pre	-purge:		mV	Рс	ost-purge:	mV

Sampler: $G R$ Date: $5/36/17$ Well I.D.: $MW - 9$ Well Diameter: 2 3 4 6 8	Equ	ilon Enter	prises	LLC dba Shell	Oil Products	US (Equilon) I	Field Data Sheet				
Well I.D.: $MW = 9$ Well Diameter: 2 3 4 6 8	BTS #:	170530) - GR	2	Site: 97	093397					
Initial Well Depth (TD): Depth to Water (DTW): Depth to Free Product: Thickness of Free Product (feet): Referenced to: PVC Grade D.O. Meter (if req'd): YSI HACH DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: Twickness of Free Product Bailer Disposable Bailer Dyposable Bailer Persbatic Sampling Methods Bailer Disposable Bailer Possitive Air Displacement Extraction Pump Depth to Water a Sampling Methods Bailer Disposable Bailer Postive Air Displacement Extraction Pump Depth to Water a Sampling Methods Bailer Case Volume Specified Volumes Galas. Galas. Disposable Bailer Disposable Bailer Time Temp (°F) pH Cond. Turbidity Other Other Disposable Bailer Time Temp (°F) pH Cond. Turbidity Galas. Removed Observations # UMABLE To LoCAT E. MAY DE GuLRETED DuE To CoNSTRUCTION. # UMABLE To LoCAT E. MAY DE Gallons actually evacuated! Mater	Sampler:	GR			Date: 5	130/17					
Depth to Free Product: Thickness of Free Product (feet): Referenced to: PVC Grade D.O. Meter (if req'd): YSI HACH OTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: urge Method: Bailer Disposable Bailer Pershaltic Disposable Bailer Positre & Ti Displacement Extraction Pump Fitted to burnes (Gals.) X Calculated Volume Weil Dismeter Multiplier Weil Dismeter Multiplier (Gals.) X Cond. Turbidity Calculated Volume Turbidity Other Multiplier Multiplier Multiplier Weil Dismeter Multiplier Weil Dismeter Multiplier Turbidity Cond. Turbidity Cond. Turbidity<	Well I.D.:	MW-	ઞ		Well Diameter	r: 2 3 4	6 8				
Referenced to:PVCGradeD.O. Meter (if req'd):YSIHACHDTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]:BailerUrge Method:BailerDisposable BailerPeriNalticSampling Method:BailerDisposable BailerPeriNalticPeriNalticSampling Method:BailerPositive Air DisplacementExtraction PumpOtherDedicated TubingElectric StamersibleOtherOtherOther(Gals.) XGals.Gals.Cond.TurbidityCase VolumeTemp (°F)pHCond.TurbidityTimeTemp (°F)pHCond.TurbidityTimeTemp (°F)pHCond.TurbidityJundal Ale ETO Cond.TurbidityGals. RemovedObservations#UNABLETO CASTRUCT TON.Image: To Cast Tons.Image: To Cast Tons.#MABLETO CASTRUCT TON.Image: To Cast Tons.#Image: Sampling Time:Depth to Water:id well dewater?YesNoGallons actually evacuated:amplie (D.:Laboratory:Test AmericaOthernalyzed for:TPH-GBTEXMTBETPH-DND:TimeDuplicate I.D. (if applicable):Image: To Cast Tons.B I.D. (if applicable):TimeDuplicate I.D. (if applicable):Image: To Cast Tons.MatterYesMTBETPH-DOxygenates (5)Other:B I.D. (if req'd):Tre-Laboratory:<	Total Well	Depth (TI	D):		Depth to Wate	Depth to Water (DTW):					
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: urge Method: Railer Disposable Bailer Porstation Pump Dobe Submersible Other Case Volume Case Volume Time $Temp (^{O}F)$ pH (mS or μ S) Time $Temp (^{O}F)$ pH (mS or μ S) TakEN $L \rightarrow NO$ Sampling Time: Depth to Water: TakEN TakEN Test America Other Test A	Depth to Fi	ee Produc	t:		Thickness of F	Free Product (fe	eet):				
urge Method: Bailer Disposable Bailer Positive Air Displacement Electric Sobmersible Waterra Disposable Bailer Peristatic Extraction Pump Other Sampling Methods. Disposable Bailer Extraction Pump Other Bailer Disposable Bailer Extraction Pump Other (Gals.) X (Gals.) X (MTUs) Gals. Removed (Gals.) X (NTUs) Observations (Observations) Time Temp (°F) pH (MS or µS) (NTUs) Cond. (NTUs) Turbidity (NTUs) Gals. Removed (Observations) X UNABLE NO (MTUS) Turbidity (MS or µS) (NTUs) Gals. Removed (Observations) Observations) X UNABLE NO (MTUS) Turbidity (MS or µS) (NTUs) Gals. Removed (Observations) Observations) X UNABLE NO (SAMPLE Turbidity (MS or µS) (NTUS) Gals. Removed (Observations) Observations) X UNABLE NO (SAMPLE Turbidity (NTUS) Gals. Removed (Observations) Observations) X UNABLE NO (SAMPLE Turbidity (NTUS) Gals. Removed (Observations) Observations) X UNABLE NO (SAMPLE <td< td=""><td>Referenced</td><td>to:</td><td>PVC</td><td>Grade</td><td>D.O. Meter (if</td><td>req'd):</td><td>YSI HACH</td></td<>	Referenced	to:	PVC	Grade	D.O. Meter (if	req'd):	YSI HACH				
Disposable Bailer Positive Air Displacement Electric Stomersible Calculated Volume $Time$ Temp (^o F) pH (mS or μ S) (NTUs) Gals. Removed Observations $Time$ Temp (^o F) pH (mS or μ S) (NTUs) Gals. Removed Observations $Time$ Temp (^o F) pH (mS or μ S) (NTUs) Gals. Removed Observations $Time$ Temp (^o F) pH (mS or μ S) (NTUs) Gals. Removed Observations $Time$ Temp (^o F) pH (mS or μ S) (NTUs) Gals. Removed Observations $Time$ Temp (^o F) pH (mS or μ S) (NTUs) Gals. Removed Observations $Time$ Temp (^o F) pH (mS or μ S) (NTUs) Gals. Removed Observations $Time$ Temp (^o F) pH (mS or μ S) (NTUs) Gals. Removed Observations $Time$ Temp (^o F) pH (mS or μ S) (NTUs) Gals. Removed Observations Time Cond. Turbidity (NTUs) Gals. Removed Observations TakEN (NTUs) Gals. Removed Observations TakEN (NTUS) Gals. Removed Observations Time Duple TD CaNSTRUCT TON. $L \to NO$ Sampling Time: Depth to Water: ample J.D.: Laboratory: Test America Other malyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other: Time Duple teat I.D. (if applicable): Time Duple teat I.D.	DTW with	80% Rech	arge [(H	Height of Water	Column x 0.20) + DTW]:					
$\frac{(Gals.) X}{Case Volume} = \frac{Gals.}{Calculated Volume} = \frac{2^{\circ}}{0.37} = \frac{0.16}{0.000} = \frac{6^{\circ}}{1.47} = \frac{1.47}{radius^2 + 0.163}$ $\frac{1.47}{3^{\circ}} = \frac{1.66}{0.37} = \frac{6^{\circ}}{0.000} = \frac{1.47}{radius^2 + 0.163}$ $\frac{1.47}{radius^2 + 0.163} = \frac{1.47}{radius^2 + 0.163} = \frac{1.47}{$	Purge Method:	Disposable B Positive Air I	Displaceme		Peristaltic ction Pump	Other	Disposable Bailer Extraction Port Dedicated Tubing				
Time Temp (°F) pH (mS or μS) (NTUs) Gals. Removed Observations # UNABLE TO COCATE MAY BE GuRATED OUE TO CONSTRUCTION. Image: Construct to the state of t	((1 Case Volume		fied Volun	 nes Calculated Vo	_Gals. 2"	0.16 6"	1.47				
L-> NO SAMPLE TAREN id well dewater? Yes No Gallons actually evacuated: id well dewater? Yes No Gallons actually evacuated: ampling Date: Sampling Time: Depth to Water; ample I.D.: Laboratory: Test America nalyzed for: TPH-G BTEX MTBE B I.D. (if applicable): Time Duplicate I.D. (if applicable): nalyzed for: TPH-G BTEX MTBE O. (if req'd): Pre-purge: Tmg/L Post-purge:	Time	Temp (°F)	pH	1	-	Gals. Removed	Observations				
id well dewater? Yes No Gallons actually evacuated: ampling Date: Sampling Time: Depth to Water: ample I.D.: Laboratory: Test America Other nalyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other: B I.D. (if applicable): Time Duplicate I.D. (if applicable): nalyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other: 0. (if req'd): Pre-purge: mg/L Post-purge: mg/L	¥	UNABLE	TO LO	CATE. MAY	BE BURFIED	DUE TO CO	NSTRUCTION.				
ampling Date: Sampling Time: Depth to Water: ample I.D.: Laboratory: Test America Other nalyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other: B I.D. (if applicable): @ Time Duplicate I.D. (if applicable): Image: Comparison of the pre-purge: Image: Comparison of the pre-purge: O. (if req'd): Pre-purge: Image: Comparison of the pre-purge: Image: Comparison of the pre-purge: Image: Comparison of the pre-purge:		47	NO	SAMPLE	TAKEN						
ampling Date: Sampling Time: Depth to Water: ample I.D.: Laboratory: Test America Other nalyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other: B I.D. (if applicable): @ Time Duplicate I.D. (if applicable): Image: Comparison of the pre-purge: Image: Comparison of the pre-purge: O. (if req'd): Pre-purge: Image: Comparison of the pre-purge: Image: Comparison of the pre-purge: Image: Comparison of the pre-purge:					· · · ·						
ampling Date: Sampling Time: Depth to Water: ample I.D.: Laboratory: Test America Other nalyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other: B I.D. (if applicable): @ Time Duplicate I.D. (if applicable): Image: Comparison of the pre-purge: Image: Comparison of the purge:											
ample I.D.: Laboratory: Test America Other nalyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other: B I.D. (if applicable): Time Duplicate I.D. (if applicable): nalyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other: 0. (if req'd): Pre-purge: MTBE TPH-D Oxygenates (5) Other: MTBE TPH-D Oxygenates (5) O	Qid well dev	water?	Yes	No	Gallons actually	y evacuated:	I				
ample I.D.: Laboratory: Test America Other nalyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other: B I.D. (if applicable): Time Duplicate I.D. (if applicable): nalyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other: O. (if req'd): Pre-purge: mg/L Post-purge: mg/L	Sampling Da	ate:	*****	Sampling Time	:	Depth to Water	κ <u>.</u>				
nalyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other: B I.D. (if applicable): Time Duplicate I.D. (if applicable): nalyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other: O. (if req'd): Pre-purge: $\frac{mg}{L}$ Post-purge: Post-purge:	Sample J.D.:				Laboratory:	Test America (Other				
B I.D. (if applicable): Time Duplicate I.D. (if applicable): nalyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other: O. (if req'd): Pre-purge: Mag/L Post-purge:			BTEX	MTBE TPH-D	Oxygenates (5)	Other:					
nalyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other: O. (if req'd): Pre-purge: mg/L Post-purge: mg/L		<u></u>		@ Time]	Duplicate I.D. (i	if applicable):					
O. (if req'd): Pre-purge: 7L Post-purge: 7L											
R.P. (if req'd): Pre-purge: mV Post-purge: mV	D.O. (if req'o	l): Pre	-purge:		^{mg} / _L Po	st-purge:	mex.				
).R.P. (if red	l'd): Pre	purge:		mV Po	st-purge:	mV				

Equilon Enterprises LLC dba Shell Oil Products US (Equilon) Field Data Sheet

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

Sampler: G_{12} Date: $5/3 O/2017$ Well I.D.: $MW - ID$ Well Diameter:23468Total Well Depth (TD): $(q.79)$ Depth to Water (DTW):8.16Depth to Free Product:Thickness of Free Product (feet):Referenced to: OV^{O} GradeD.O. Meter (if req'd): OS DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: $bec 53$ Purge Method:BailerPeristalticDisposable BailerPositive Air DisplacementExtraction PumpExtraction PortOther:Other: $Other$ Other:Vell DiameterMultiplierMultiplier7.7(Gals.) X 3 23.1 Specified Volumes 23.1 Gals.TimeTemp (°F)pH(mS or GS)(NTUs)Gals. RemovedObservations(1432) 66.6 6.93 $13.0.4$ 7.000 24.0 $DTW - 9.15$ (1432) 66.6 6.92 12.1 1441 66.5 6.92 12.6 1441 66.5 6.92 12.6 1441 66.5 6.92 12.6 1441 66.5 6.92 12.6 1441 66.5 6.92 12.6 1441 66.5 6.92 12.6 1441 66.5 6.92 12.6 1441 66.5 6.92 12.6 1441 66.5 6.92 12.6 14421 66.5 6.9	Equ	ilon Enter	rprises]	LLC dba Shell	Oil Products	US (Equilon) I	Field Data Sheet				
Sampler: GQ Date: $5/30/2017$ Well I.D.: $MW - 10$ Well Diameter: 2 3 6 8	BTS #:	170530	- GRZ		Site: 970	93397					
Total Well Depth (TD): (q, qq) Depth to Water (DTW): $g.$ ($f.$ Depth to Free Product: Thickness of Free Product (feet): Referenced to: $free Product$ Thickness of Free Product (feet): Referenced to: $free Product$ Thickness of Free Product (feet): $free Product$ HACH DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: $free 53$ HACH DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: $free 53$ HACH DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: $free 53$ HACH DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: $free 53$ HACH Disposable Bailer Peristalic Sampling Method: Eater Prige Method: Bailer Disposable Bailer Devised Tubing Other 7.7 (Gals.) X 3 $= 23.1$ Gals. Gallated Volume 0 0 Time Temp (°F) pH (mS or 65) (NTUs) Gals. Removed Observations 1/4 32 66.6 6.92 130.4 7000 8.0 144.0 0 1/4 4 66.5 6.92	Sampler:	GR			Date: 51	30/ 2017					
Depth to Free Product:Thickness of Free Product (feet):Referenced to:Thickness of Free Product (feet):DO. Meter (if req'd):(S) HACHDTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: $ibe 53$ Purge Method:Banpling Method:GameDisposable BailerPeristaticPointre Air DisplacementWaterraSampling Method:GameOtherOtherTogot (Gals.) X323.1Gals.Time Temp (°F)pH(Cond.TurbidityTime Temp (°F)pH(Cond.Turbidity(Gals.) X30.0008.0(H'35)Go.d.TurbidityTime Temp (°F)pH(Cond.Turbidity(M'32 66.66.9913.042000016.01/4/3266.66.921/2MutiplierMutiplierMutiplierMutiplierMutiplierMutiplierMutiplierMutiplierTim	Well I.D.:	MW-	/0		Well Diamete	r: 2 3 🏈	> 6 8				
Referenced to: Free Grade D.O. Meter (if req'd): (TS) HACH DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: $ib_0 53$ Durge Method: Bailer Sampling Method: Grade Disposable Bailer Peristatic Disposable Bailer Positive Air Displacement Extraction Pump Other Other Togotable Bailer Disposable Bailer Disposable Bailer Positive Air Displacement Extraction Pump Dedicated Tubing Other Well Diameter Multiplier Multiplier Time Temp (°F) PH Cond. Turbidity Gallons actually evacuated: 24.0 Differ Volumes Time: Coolpote Multiplier Volume Coolpote Multiplier Time: Coolpote Multiplier To	Total Well	Depth (TI	D): (9	2.99	Depth to Wate	er (DTW): 8	. 16				
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 10653 Purge Method: Bailer Disposable Bailer Disposable Bailer Peristatic Positive Ar Displacement Extraction Purp Other Telectric Submersible Time Temp (°F) pH Cond. Turbidity (MTUs) Gals. Removed Observations 1435 66.6 6.99 132.1 70000 8.01437 66.6 6.99 132.1 70000 8.01437 66.6 6.99 132.1 70000 8.01437 66.6 6.99 132.1 70000 8.01437 66.6 6.99 132.1 70000 16.01447 66.5 6.92 1298 70000 16.01441 66.5 6.92 1298 70000 16.01441 66.5 6.92 1298 70000 24.0 0700 $-9.15Did well dewater? Yes 800 Gallons actually evacuated: 24.0ampling Date: 5/30/17 Sampling Time: (450) Depth to Water: 9.15ample I.D.: MW-10 Laboratory: Test America Othermay zet for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other:Outher: 0.16 102 0.2.6 100$	Depth to F	ree Produc	t:		Thickness of I	Free Product (fe	eet):				
Purge Method: Bailer Disposable Bailer Disposable Bailer Positive Air Displacement Extraction Pump Deficated Tubing Other Time Temp (^{P}F) pH (^{P}M (^{P}M (^{P}M (^{P}M (^{P}M) (^{P}M	Referenced	l to:	PVC	Grade	D.O. Meter (if	freq'd):	YSI HACH				
Disposable Bailer Positive Air Displacement Disposable Bailer Peristatic Extraction Pump Other $\overline{Cace Volume}$ $\overline{Cace Volume}$ $\overline{Case Volume}$	DTW with	80% Rech	arge [(H	leight of Water	Column x 0.20) + DTW]:	10,53				
7.7 Case Volume 3 Specified Volumes $=$ 23.1 Calculated Volume 1 23 0.46 0.16 4° 1.47 1.47 1.47 1.63 TimeTemp (°F) PHpHCond. (mS or (S))Turbidity (NTUs)Gals. RemovedObservations14.35 66.8 6.98 6.99 $1.32.1$ 7000 8.0 0 14.35 66.6 6.93 6.92 1.304 7000 8.0 16.0 14.41 66.5 6.52 6.92 1.248 7000 24.0 $0.700 - 9.15$ 14.41 66.5 6.92 6.92 1.248 7000 1.248 24.0 $0.700 - 9.15$ 15.41 6.92 1.410 1.248 1.420 1.240 1.420 $0.700 - 9.15$ 16.42 1.410 1.248 1.420 1.240 1.420 0.140 1.420 16.42 1.410 1.248 1.420 0.140 1.420 17.50 1.4100 1.249 1.4500 0.163 18.10.11000 1.4100 1.4250 1.4200 0.165 1.4200 <t< td=""><td>Purge Method:</td><td>Disposable E Positive Air</td><td>Displaceme</td><td></td><td>Peristaltic tion Pump</td><td>Other</td><td>Disposable Bailer Extraction Port Dedicated Tubing</td></t<>	Purge Method:	Disposable E Positive Air	Displaceme		Peristaltic tion Pump	Other	Disposable Bailer Extraction Port Dedicated Tubing				
TimeTemp ($^{\circ}F$)pH(mS or $^{\circ}S$)(NTUs)Gals. RemovedObservations143566.86.99132.1>10008.01143266.66.93-1304>100016.0144166.56.921298>100024.0 $p_7w - 9.15$ 144166.56.921298>100024.0 $p_7w - 9.15$ 144166.56.921298129800144166.56.921298129800144166.56.921298129800144166.56.921298129800144166.56.9212981450Depth to Water: 9.1514511498149900150815145215381498 <td>7-7 1 Case Volume</td> <td></td> <td></td> <td></td> <td>Gals. 1" 2" 3"</td> <td>0.04 4" 0.16 6"</td> <td>0.65 1.47</td>	7-7 1 Case Volume				Gals. 1" 2" 3"	0.04 4" 0.16 6"	0.65 1.47				
1438 66.6 6.93 1304 7000 16.0 1441 66.5 6.92 1298 >1000 24.0 $07W - 9.15$ Did well dewater?YesYesYesGallons actually evacuated: 24.0 Did well dewater?YesYesYesDepth to Water: 9.15 ampling Date: $5/30/17$ Sampling Time: 1450 Depth to Water: 9.15 ample I.D.: $MW - 10$ Laboratory: Test America: Othernalyzed for: TPH-G BTEXMTBE TPH-DOxygenates (5)B I.D. (if applicable): $@$ malyzed for: TPH-G BTEXMTBE TPH-DOxygenates (5)Other:.0. (if req'd): $Pre-purge:$ 0.33 mg/L Post-purge: 0.26											
144166.5 6.92 1298 >1000 24.0 $p_Tw - 9.15$ Did well dewater?YesYesYesGallons actually evacuated: 24.0 Did well dewater?YesYesGallons actually evacuated: 24.0 ampling Date: $5/30/17$ Sampling Time: 1450 Depth to Water: 9.15 ample I.D.: p_W-10 Laboratory:Test Americal Othernalyzed for:TPH-GBTEXMTBETPH-DOxygenates (5)OtherB I.D. (if applicable):@TumeDuplicate I.D. (if applicable): mg/L nalyzed for:TPH-GBTEXMTBETPH-DOxygenates (5)Other:.O. (if req'd):Pre-purge: 0.33 mg/L Post-purge: 0.26 mg/L	1435	66.8	6.89	1321	71000	8.0					
Did well dewater? Yes Xo Gallons actually evacuated: 24.0 ampling Date: 5/30/17 Sampling Time: 1450 Depth to Water: 9.15 ample I.D.: MW-10 Laboratory: Test America Other nalyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other SEE Come B I.D. (if applicable): @ Tume Duplicate I.D. (if applicable): nalyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other: .0. (if req'd): Pre-purge: 0.33 mg/L Post-purge 0.26 mg/L	1438	66.6	6.93	1304	7000	16.0					
ampling Date: $5/30/17$ Sampling Time: 1450 Depth to Water: 9.15 ample I.D.: $MW-10$ Laboratory:Test AmericaOthernalyzed for:TPH-GBTEXMTBETPH-DOxygenates (5)OtherSEEB I.D. (if applicable): $@$ TumeDuplicate I.D. (if applicable):Duplicate I.D. (if applicable):nalyzed for:TPH-GBTEXMTBETPH-DOxygenates (5)Other:.O. (if req'd):Pre-purge: 0.33 $mg/1$ Post-purge: $0.2.6$ $mg/1$	1441	66.5	6.92	1298	71000	24.0	DTW-9.15				
ampling Date: $5/30/17$ Sampling Time: 1450 Depth to Water: 9.15 ample I.D.: $MW-10$ Laboratory:Test AmericaOthernalyzed for:TPH-GBTEXMTBETPH-DOxygenates (5)OtherSEEB I.D. (if applicable): $@$ TumeDuplicate I.D. (if applicable):Duplicate I.D. (if applicable):nalyzed for:TPH-GBTEXMTBETPH-DOxygenates (5)Other:.O. (if req'd):Pre-purge: 0.33 $mg/1$ Post-purge: $0.2.6$ $mg/1$					۰						
ampling Date: $5/30/17$ Sampling Time: 1450 Depth to Water: 9.15 ample I.D.: $MW-10$ Laboratory:Test AmericaOthernalyzed for:TPH-GBTEXMTBETPH-DOxygenates (5)OtherSEEB I.D. (if applicable): $@$ TumeDuplicate I.D. (if applicable):Duplicate I.D. (if applicable):nalyzed for:TPH-GBTEXMTBETPH-DOxygenates (5)Other:.O. (if req'd):Pre-purge: 0.33 $mg/1$ Post-purge: $0.2.6$ $mg/1$				1899. -	•						
ample I.D.: <i>MW-10</i> Laboratory: Test America Other nalyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other See Coe B I.D. (if applicable): <i>ample I.D.</i> (if req'd): <i>Pre-purge: O. 33 mg/L Post-purge: O. 2.6 mg/L</i>	Did well dev	water?	Yes d	MB)	Gallons actuall	y evacuated:	24.0				
ample I.D.: MW-10 Laboratory: Test America Other nalyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other SEE Come B I.D. (if applicable): Imme Duplicate I.D. (if applicable): Duplicate I.D. (if applicable): Imme Duplicate I.D. (if applicable): Imme Oxygenates (5) Other: Imme	Sampling D	ate: <i>5/30/</i>	17	Sampling Time	: 1450	Depth to Wate	r: 9.15				
B I.D. (if applicable): Time Duplicate I.D. (if applicable): nalyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other: .O. (if req'd): Pre-purge: O. 33 ^{mg} /L Post-purge: O. 2.6 ^{mg} /L	Sample I.D.:]	Laboratory: <	Test America	Other				
B I.D. (if applicable): nalyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other: .O. (if req'd): Pre-purge: O. 33 ^{mg} /L Post-purge: O. 26 ^{mg} /L	Analyzed for	r: TPH-G	BTEX	MTBE TPH-D (Oxygenates (5)	Other SEE	Cæ				
.0. (if req'd): Pre-purge: $O.33$ mg/L Post-purge: $O.26$ mg/L	EB I.D. (if a	pplicable):		@ Time	Duplicate I.D. (if applicable):					
0. (if req'd): Pre-purge: 0.33 TL Post-purge: 0.26 TL	analyzed for	r: TPH-G	BTEX	MTBE TPH-D (Oxygenates (5)	Other:					
.R.P. (if req'd): Pre-purge: mV Post-purge: mV).O. (if req'o	d): Pre	-purge:	0.33	^{mg} / _L Pc	ost-purge?	0.26 mg/L				
).R.P. (if red	q'd): Pre	-purge:		mV Po	ost-purge:	mV				

Equilon Enterprises LLC dba Shell Oil Products US (Equilon) Field Data Sheet

Equ	ilon Ente	rprises	LLC dba Shel	l Oil P	roducts	US (Equilon)	Field Data Sheet			
BTS #:	170530-	- GR Z		Site:	970	9 3397				
Sampler:	GaR			Date	: 51	30/2017				
Well I.D.:	MW-	11		Well	Diamete	r: 2 3 🤇	68			
Total Well	Depth (TI	D): _{('}	9.65	Depth to Water (DTW): 8.05						
Depth to F	ree Produc	:t:		Thic	Thickness of Free Product (feet):					
Referenced	l to:	PVG	Grade	D.O.	Meter (if	freq'd):	A HACH			
DTW with	80% Rech	arge [(I	Height of Water	· Colur	nn x 0.20) + DTW]:	10.37			
Purge Method:	Bailer Disposable E Positive Air Electric Subr	Displacem	ent Extrac > Other	Water Peristalt ction Pun	ic	Sampling Metho	Disposable Bailer Extraction Port Dedicated Tubing			
7-5 1 Case Volume		3 fied Volur	$\frac{1}{\text{nes}} = \frac{2}{2} \cdot \frac{1}{2} \cdot \frac{1}{2} \cdot \frac{1}{2}$		<u>Well Diamet</u> 1" 2" 3"	er Multiplier We 0.04 4" 0.16 6" 0.37 Oth	Il Diameter Multiplier 0.65 1.47 ter radius ² * 0.163			
Time	Temp (°F)	pН	Cond. (mS or (15)	1	rbidity ITUs)	Gals. Removed	Observations			
1459	65.1	7.01	1009	6	:12	7.5				
1501	64.9	2.04	1027	4	199	15:0				
1504	64.9	7.03	1034	4	78	22.5	DTW-9-78			
	, A				`					
e de la companya de la				•						
Did well dev	vater?	Yes 🗸	No	Gallon	s actually	y evacuated:	22.5			
Sampling Da	ate: 5/30/	17	Sampling Time	: 15	10	Depth to Wate	r: 9,78			
Sample I.D.:	mw-l	t]	Labora	tory: 🤇	Test Amerida	Other			
Analyzed for	TPH-G	BTEX	MTBE TPH-D (Oxygen	ates (5) 🧷	Other? SEE	COL			
EB I.D. (if ap	oplicable):		@ Time]	Duplic	ate I.D. (i	if applicable):				
Analyzed for	: TPH-G	BTEX	MTBE TPH-D (Oxygena	ates (5) (Other:				
D.O. (if req'd	l): Pre	purges	Ö. 29	^{mg} /L	Po	st-purge	0.18 ^{mg} / _L			
O.R.P. (if rec	ı'd): Pre	-purge:		mV	Ро	st-purge:	mV			

BTS #: $170530 - GR2$ Site: 97093397 Sampler: GR Date: $5/30/2017$ Well LD: $MW - 12$ Well Diameter: 2 3 6 8 Total Well Depth (TD): Depth to Water (DTW): Depth to Free Product (feet): Referenced to: PVC Grade D.O. Meter (if req'd): YSI HACH DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: Purge Method: Toge and the point of	ĽYu	non Enter	prises			i ou de co	UD (LIYun		
Well I.D.: $M \ block 1 \ climate Well Diameter: 2 3 4 6 8$	BTS #:	170531)- G1	22	Site:	97	09339	7	
Total Well Depth (TD): Depth to Water (DTW): Depth to Free Product: Thickness of Free Product (feet): Referenced to: PVC Grade D.O. Meter (if req'd): YSI HACH DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: Purge Method: Bailer Disposable Bailer Prevention and the prevention of the preventing the prevention of the prevention of the preventing t	Sampler:	G	R		Date:	5	130/20	017	
Depth to Free Product: Thickness of Free Product (feet): Referenced to: PVC Grade D.O. Meter (if req'd): YSI HACH DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: Purge Method: Dailer Disposable Bailer Motiplet Motiplet Motiplet Disposable Bailer Disposable Bailer Disposable Bailer Disposable Ba	Well I.D.:	MW-17	2		Well	Diameter	r: 2 3	4	6 8
Referenced to: PVC Grade D.O. Meter (if req'd): YSI HACH DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: Purge Method: Bailer Dispbeable Bailer Dis	Total Well	Depth (TI	D):		Deptl	n to Wate	er (DTW):		
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: Purge Method: bailer Disposable Bailer Positive Xir Displacement Electric Subhersible Color = Color = Co	Depth to F	ree Produc	t:	<u> </u>	Thick	mess of F	Free Produ	ct (fe	et):
Purge Method: Bailer Disposable Bailer Positive Xir Displacement Electric Submersible Waterra Positistic Extraction Purp Other Sampling Method Disposable Bailer Disposable Bailer Disposab	Referenced	l to:	PVC	Grade	D.O.	Meter (if	req'd):		YSI HACH
Disposable Bailer Positive Air Displacement Electric Submersible (Gals.) X <u>Tase Volume</u> (Gals.) X <u>Specified Volumes</u> <u>and Calculated Volume</u> <u>Calculated Volume</u> <u>Time</u> Temp (°F) pH (mS or µS) (NTUs) <u>Calculated Volume</u> <u>Cond.</u> <u>Turbidity</u> <u>Gals. Removed</u> <u>Observations</u> <u>Calculated Volume</u> <u>Cond.</u> <u>Turbidity</u> <u>Gals. Removed</u> <u>Observations</u> <u>Cond.</u> <u>Cond.</u>	DTW with	80% Rech	arge [(I	Height of Water	Colun	nn x 0.20) + DTW]		
$\frac{(Gals.)X}{I Case Volume} = \frac{Gals.}{Calculated Volume} = \frac{1}{Calculated Volume} = \frac{1}{2} \frac{0.46}{0.37} \frac{4}{0.16} \frac{4}{0.16} \frac{4}{0.16} \frac{1}{1.47} \frac{0.65}{1.47} \frac{1.47}{1.47} 1$	Purge Method:	Disposable E Positive Air I	Displacem		Peristalti	ic p	-	Other:	Disposable Bailer Extraction Port Dedicated Tubing
Time Temp (°F) pH Cond. (mS or µS) Turbidity (NTUs) Gals. Removed Observations - UWABLE 70 ALCESS_GATES LockED MAY BE PARKED OVER L WO SAMPLE TAKEN MAY BE PARKED OVER Did well dewater? Yes No Gallons actually evacuated: MAY BE Sampling Date: Sampling Time: Depth to Water: MAY BE Sample D.: Daboratory: Test America Other Analyzed for: THI-G BTEX MTBE THI-D Oxygenates (5) Other: B.D. (if applicable): "Time Duplicate I.D. (if applicable): MTBE MTBE MTBE MOX PHI-D O.O. (if req'd): Pre-purge: "ME/L Post-purge: "ME/L			fied Volur	= <u>Calculated Vo</u>		1" 2"	0.04 0.16	4" 6"	0.65 1.47
Time Temp (°F) pH (mS or µS) (NTUs) Gals. Removed Observations — UWABLE TO ACCESS GATES LockED MAY BE PARKED OVER					r	rhidity			
Lywic SAMPLE TAKEN. Lywic SAMPLE TAKEN. Did well dewater? Yes No Gallons actually evacuated: Sampling Date: Sampling Time: Depth to Water: Depth to Water: Sample LD.: Daboratory: Analyzed for: TPH-G BI.D. (if applicable): Time Duplicate I.D. (if applicable): Time D.O. (if req'd): Pre-purge:	Time	Temp (°F)	pH	(mS or µS)		•	Gals. Rem	oved	Observations
Lywic SAMPLE TAKEN. Lywic SAMPLE TAKEN. Did well dewater? Yes No Gallons actually evacuated: Sampling Date: Sampling Time: Depth to Water: Depth to Water: Sample LD.: Daboratory: Analyzed for: TPH-G BI.D. (if applicable): Time Duplicate I.D. (if applicable): Time D.O. (if req'd): Pre-purge:		UNABLE	TO AL	ESS, GATES	LOCKE	D. MA	Y BE P.A	eke	DOVER
Sampling Date: Sampling Time: Depth to Water: Sample I.D.: Daboratory: Test America Other Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other: EB I.D. (if applicable): Imme Duplicate I.D. (if applicable): Time Duplicate I.D. (if applicable): Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other: O.O. (if req'd): Pre-purge: Imme Imme Post-purge: Imme		4	NO	SAMPLE TA	FREN	8			
Sampling Date: Sampling Time: Depth to Water: Sample I.D.: Daboratory: Test America Other Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other: EB I.D. (if applicable): @ Time Duplicate I.D. (if applicable): Time Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other: Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other: O.O. (if req'd): Pre-purge: mg/L Post-purge: mg/L						`			
Sampling Date: Sampling Time: Depth to Water: Sample I.D.: Daboratory: Test America Other Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other: EB I.D. (if applicable): Imme Duplicate I.D. (if applicable): Time Duplicate I.D. (if applicable): Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other: O.O. (if req'd): Pre-purge: Imme Imme Post-purge: Imme									
Sample I.D.: Daboratory: Test America Other Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other: EB I.D. (if applicable): @ Time Duplicate I.D. (if applicable): Image: Comparison of the comparison of	Qid well dev	water?	Yes	No	Gallon	s actually	y evacuate	d:	
Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other: EB I.D. (if applicable): Imme Duplicate I.D. (if applicable): Imme Duplicate I.D. (if applicable): Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other: Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other: D.O. (if req'd): Pre-purge: Img/L Post-purge: Img/L	Sampling D	ate:		Sampling Time	•		Depth to V	Water	÷
EB I.D. (if applicable): @ Time Duplicate I.D. (if applicable): Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (\$) Other: D.O. (if req'd): Pre-purge: mg/L Post-purge:	Sample I.D.:	•			Dabora	tory:	Test America	ı C	Other
2B I.D. (if applicable): Time Duplicate I.D. (if applicable): Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other: D.O. (if req'd): Pre-purge: mg/L Post-purge: mg/L	Analyzed for	r: TPH-G	BTEX	MTBE TPH-D	Oxygen	ates (5)	Other:		
D.O. (if req'd): Pre-purge: $\frac{mg_{L}}{mg_{L}}$ Post-purge: mg_{L}	EB I.D. (if a	pplicable):		@ Time]	Duplic	ate I.D. (if applicab	ole):	
D.O. (II leq u). Pie-puige.	Analyzed for	г: трн-с	BTEX	MTBE TPH-D (Oxygena	ates (5)	Other:		
D.R.P. (if req'd): Pre-purge: mV Post-purge: mV	D.O. (if req'o	d): Pro	-purge:		^{mg} / _L	Pq	st-purge:		mg
	D.R.P. (if red	q'd): Pre	-purge:		mV	Ро	st-purge:		mV

Equilon Enterprises LLC dba Shell Oil Products US (Equilon) Field Data Sheet

BTS #: $170530 - 6/27$ Site: 97053397 Sampler: GA Date: $5/30/2017$ Well LD: $ntw-13$ Well Diameter: 23 4 6 $\underline{2}$ Total Well Depth (TD): (4.87) Depth to Water (DTW): 8.478 Depth to Free Product: Thickness of Free Product (feet): Referenced to: $eventstatic Dot 4.64 DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 10.74 HACH DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 10.74 Galide Disposable Bailer Disposable$	Equ	ilon Enter	prises l	LLC dba Shell	Oil Products	US (Equilon) H	field Data Sheet
Well I.D.: $p_{14} - 13$ Well Diameter: $\bigcirc 3$ 4 6 8 Total Well Depth (TD): $iq. g. 7$ Depth to Water (DTW): $g. 4y $ Depth to Free Product: Thickness of Free Product (feet): Referenced to: $\bigcirc \bigcirc $	BTS #:	170530 -	-GRZ		Site: 970	093397	
Total Well Depth (TD): 14.87 Depth to Water (DTW): $g.4g$ Depth to Free Product: Thickness of Free Product (feet): Referenced to: TOG Grade D.O. Meter (if req'd): TOG DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: $Io.76$ Purge Method: Bailer Partial Disposable Bailer Peristatic Sampling Method: Togosable Bailer Positive Air Displacement Extraction Pump Dettexted Tubing Other Other Dettexted Tubing 1 Case Volume Gals.) X 3 3 0.44 4^{er} 0.52^{er} 1 Case Volume Specified Volumes Calculated Volume 0.44 4^{er} 0.52^{er} 1 Case Volume Cond. Turbidity Gals. Removed Observations 112.0 65.1 7.12 $(E.9.8)$ 7.000 2^{er} $Gaegef / UOPR$ 112.4 64.9.2 7.03 16.23 7.000 6^{er} 6^{er} 6^{er} 6^{er} Did well dewater? Yes Gallons actually evacuated: 6.0 6^{er} 6^{er} 6^{er}	Sampler:	GR			Date: 57	130/2017	
Depth to Free Product: Thickness of Free Product (feet): Referenced to: Thickness of Free Product (feet): Referenced to: Thickness of Free Product (feet): DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: IO. Meter (if req'd): Thickness of Free Product (feet): DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: IO. 76 Purge Method Bailer Peristatic Disposable Bailer Peristatic Disposable Bailer Purge Method Sampling Method: Galler Disposable Bailer Peristatic Other Disposable Bailer Purge Method Sampling Method: Galler Disposable Bailer Peristatic Mutiplier Other I case Volume Specified Volumes Turbidity Other Mutiplier Time Temp (°F) PH Cond. Turbidity Time Temp (°F) pH Cond. Turbidity Gals.	Well I.D.:	mw-1	3		Well Diameter	r: 2 3 4	6 8
Interview of the second seco	Total Well	Depth (TI)): 19	.87	Depth to Wate	er (DTW): 8.	48
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 10.76 Purge Method BaileD Disposable Bailer Positive Air Displacement Electric Submersible Other 1.8 (Gals.) X 3 $= 5.4$ Gals. 1.8 (Gals.) X 3 $= 5.4$ Gals. 1.2 (Gals.) X 3 $=$	Depth to F	ree Produc	t:		Thickness of F	Free Product (fe	eet):
Purge Method: Bailer Purge Method: Bailer Disposable Bailer Positive Air Displacement Electric Submersible 1.8 (Gals.) X 3 $= 5.4$ Gals. 1.8 (Gals.) X 3 $= 5.4$ Gals. 1.20 (Gals.) X 3 7.000 (NTUs) Gals. Removed Observations 1.20 (G5.1 7.12 (F598 >7.000 2.0 $Gals. Removed Observations 1.124 (G4.2 7.08 (L2.6 >20000 4.01.124 (G4.7 7.05 (L2.6 >20000 4.01.124 (G4.7 7.05 (L2.6 >20000 6.0 pTW = 8.991.129 (Gals.) 1.20 1.23 2.0000 6.0 pTW = 8.991.20 (Did well dewater? Yes No Gallons actually evacuated: 6.0Sampling Date: 5/30/17 Sampling Time: 1.130 Depth to Water: 8.99Sample I.D.: P(W - 13) Laboratory: Cest America Other1.129 (Dif applicable): The BTEX MTBE TPH-D Oxygenates (5) Other:1.20 (Gif req'd): Pre-Purge 0.34 mg_1 Post-Purge 0.29 mg_10.29 mg_1 0.29 mg_1$	Referenced	l to:	PVG	Grade	D.O. Meter (if	req'd):	(YST) HACH
IngentitieDisposable Bailer Positive Air Displacement Electric SubmersiblePeristaltic Extraction Pump OtherDisposable Bailer Extraction Pump Dedicated Tubing1.8 Class Volume 3 Specified Volumes 3 Calculated Volume 3 Calculated Volume 3 Vell Diameter OtherMultiplier Multiplier 4 Multiplier Multiplier1.8 Class Volume 3 Specified Volumes 3 Calculated Volume 3 Calculated Volume 3 Vell Diameter MultiplierMultiplier Multiplier Multiplier 4 Multiplier Multiplier1.2 Mole 65.1 7.12 7.02 7.98 7.020 7.08 2.0 2.0 6.2 $pTW - 8.99$ 112 Multiplier 64.7 7.08 7.08 16.33 $7cov$ $2cov$ 4.0 $pTW - 8.99$ 112 Multiplier 64.7 7.08 7.08 16.33 $7cov$ $2cov$ 6.0 $pTW - 8.99$ Did well dewater? Sampling Date: $5/50/17$ Sampling Time: 1130 TomeDepth to Water: 8.99 8.99 1.30 Did well dewater? Multiplier 6.0 1.33 $5cov$ 1.30 6.0 $pTW - 8.99$ Did well dewater? Sampling Date: $5/50/17$ Sampling Time: 1130 TomeDepth to Water: 8.99 Did well dewater? Multiplier 1.30 6.0 1.33 $7cov$ 2.000 6.0 0.0 Did well dewater? Sampling Date: $5/50/17$ Sampling Time: 1130 TomeDepth to Water: 8.99 Did well dewater? Multiplice 1.30 6.34 Tome $7cov$ 1.30 <	DTW with	80% Rech	arge [(H	leight of Water	Column x 0.20) + DTW]:	10.76
$\frac{1.8}{1 \text{ Case Volume}} (\text{Gals.}) X \xrightarrow{3}_{\text{Specified Volumes}} = \frac{5.4}{\text{Calculated Volume}} (\text{Gals.}) X \xrightarrow{3}_{\text{Specified Volumes}} (\text{Gals.}) X \xrightarrow{3}_{Specif$	Purge Method	Disposable B Positive Air I	Displaceme		Peristaltic ction Pump		Disposable Bailer Extraction Port Dedicated Tubing
TimeTemp (°F)pH(mS or \mathfrak{GS})(NTUs)Gals. RemovedObservations112065.17.12(598710002.0 $\mathfrak{G2E9}/000R$ 112464.97.081626720004.0112964.77.051633720006.0 $pTW = 8.99$ 112964.77.051633720006.0 $pTW = 8.99$ Did well dewater?YesNoGallons actually evacuated:6.0Sampling Date:5/30/17Sampling Time:1130Depth to Water:8.99Sample I.D.: $mW - 13$ Laboratory:Cest AmericaOtherAnalyzed for:TPH-GBTEXMTBETPH-DOxygenates (5)OtherB.D. (if applicable):@TimeDuplicate I.D. (if applicable):0.29 mg_{11} O.O. (if req'd):Pre-purge0.34 mg_{11} Post-purge:0.29 mg_{11} D.R. D. (if cord/d):Pre-purge0.34 mg_{11} Post-purge:mV		Gals.) X Speci	<u>3</u> fied Volum	$\frac{5.4}{\text{Calculated Vo}}$	_Gals.	0.04 4" 0.16 6"	0.65 1.47
Intervention Intervention <t< td=""><td>Time</td><td>Temp (°F)</td><td>pH</td><td></td><td>-</td><td>Gals. Removed</td><td>Observations</td></t<>	Time	Temp (°F)	pH		-	Gals. Removed	Observations
1/2 0 $1/0$	1120	65.1	7,12	1598	71000	2,0	GREY /UDOR
Did well dewater? Yes No Gallons actually evacuated: 6.0 Sampling Date: $5/30/17$ Sampling Time: 1130 Depth to Water: 8.99 Sample I.D.: $MW - 13$ Laboratory: Test America Other Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other EB I.D. (if applicable): @ Tume Duplicate I.D. (if applicable): Duplicate I.D. (if applicable): Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other: O.O. (if req'd): Pre-purge: 0.34 $mg/1$ Post-purge: 0.28 $mg/1$ D.B. (if rand'd): Pre-purge: 0.34 $mg/1$ Post-purge: 0.28 $mg/1$	1124	64.0	7.08	1626	70000	4.0	
Sampling Date: $5/30/17$ Sampling Time: 1130 Depth to Water: 8.99 Sample I.D.: $MW - 13$ Laboratory: $(est America)$ OtherAnalyzed for:TPH-GBTEXMTBETIMETPH-DOxygenates (5)OtherEB I.D. (if applicable): $merica$ Duplicate I.D. (if applicable):Analyzed for:TPH-GBTEXMTBETPH-DOxygenates (5)Other: 0.29 D.O. (if req'd):Pre-purge: 0.34 mg/L Post-purge: 0.29 my/L Post-purge: my/L Post-purge: my/L Post-purge: my/L Post-purge: my/L Post-purge:	1128	64.7	7.05	1633	76000	6.0	DTW- 8.99
Sampling Date: $5/30/17$ Sampling Time: 1130 Depth to Water: 8.99 Sample I.D.: $MW - 13$ Laboratory: $(est America)$ OtherAnalyzed for:TPH-GBTEXMTBETIMETPH-DOxygenates (5)OtherEB I.D. (if applicable): $merica$ Duplicate I.D. (if applicable):Analyzed for:TPH-GBTEXMTBETPH-DOxygenates (5)Other: 0.29 D.O. (if req'd):Pre-purge: 0.34 mg/L Post-purge: 0.29 my/L Post-purge: my/L Post-purge: my/L Post-purge: my/L Post-purge: my/L Post-purge:					· · · · · · · · · · · · · · · · · · ·		
Sample I.D.: $MW - I3$ Laboratory: est America Other Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other SEE COC EB I.D. (if applicable): $@$ Time Duplicate I.D. (if applicable): SEE COC Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other: Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other: O.O. (if req'd): Pre-purge: 0.34 mg/L Post-purge: 0.29 mg/L O.D. (if req'd): Pre-purge: 0.34 mV Post-purge: mV	Did well de	water?	Yes (Ng	Gallons actually	y evacuated:	6.0
Analyzed for:TPH-GBTEXMTBETPH-DOxygenates (5)OtherSEECOCEB I.D. (if applicable): $@$ TimeDuplicate I.D. (if applicable):Analyzed for:TPH-GBTEXMTBETPH-DOxygenates (5)Other:O.O. (if req'd):Pre-purge: 0.34 $^{mg}/_L$ Post-purge: 0.26 $^{mg}/_L$ O.D. (if req'd):Pre-purge: 0.34 $^{mg}/_L$ Post-purge: 0.26 $^{mg}/_L$	Sampling D	ate: 5/30/	17	Sampling Time	: 1130	Depth to Wate	r: 8,99
EB I.D. (if applicable): [@] Time Duplicate I.D. (if applicable): Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other: O.O. (if req'd): Pre-purge: D.D. (if req'd): Pre-purge: D.B. D. (if req'd): Pre-purge:					Laboratory: <	Test America	Other
2B I.D. (if applicable): Time Duplicate I.D. (if applicable): Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other: D.O. (if req'd): Pre-purge: 0.34 mg/L Post-purge: 0.29 mg/L D.B. D. (if req'd): Pre-purge: 0.34 mV Post-purge: 0.29 mV	Analyzed fo	r: TPH-G	BTEX	MTBE TPH-D	Oxygenates (5)	Other SER	·COL
D.O. (if req'd): Pre-purge: 0.34 mg/L Post-purge: 0.29 mg/L	EB I.D. (if a	pplicable):		@ . Time .	Duplicate I.D. (if applicable):	
D.O. (if req'd): Pre-purge: 0.34 ¹ L Post-purge: 0.29 ¹ L	Analyzed fo	r: TPH-G	BTEX	MTBE TPH-D		Other:	
D.R.P. (if req'd): Pre-purge: mV Post-purge: mV	D.O. (if req'	d): Pre	-purge:	0.34	^{mg} / _L Po	ost-purge.	<i>O</i> . 2 <i>G</i> ^{mg} / _L
	D.R.P. (if re	q'd): Pre	e-purge:		mV Po	st-purge:	68 GR mV

Equilon Enterprises LLC dba Shell Oil Products US (Equilon) Field Data Sheet

Equ	ilon Enter	rprises	LLC dba Shell	Oil Pro	oducts l	US (Equilon)	Field Data Sheet
BTS #:	170530	s- GR	2	Site:	970	93397	
Sampler:	GR			Date:	5/30	0/2017	
Well I.D.:	MW-10	1		Well D	Diameter	:: 2 3 4	6 8 🖉
Total Well	Depth (TI	D): /º	1.10	Depth	to Wate	er (DTW): 7	05
Depth to Fr	ee Produc	t:		Thickn	ess of F	Free Product (fe	eet):
Referenced	to:	EVB	Grade	D.O. M	leter (if	req'd):	(YSF) HACH
DTW with	80% Rech	arge [(ŀ	leight of Water	Columr	n x 0.20) + DTW]: 🖇	2.46
Purge Method:	Bailer Disposable B Positive Air I Electric Subn	Displaceme	Other NE	CHECK	Well Diamete	er Multiplier Well	Disposable Bailer Extraction Port Dedicated Tubing
0.3 (0 1 Case Volume	Gals.) XSpeci	3 fied Volun	$\frac{1}{1} = \frac{0.9}{\text{Calculated Vo}}$	_Gals. lume	1" 2" 3"	0.04 4" 0.16 6" 0.37 Othe	0.65 1.47 er radius ² * 0.163
Time	Temp (°F)	pH	Cond. (mS or (LS))	Turb (NT	-	Gals. Removed	Observations
1144	63.4	7.05	1378	7100	, vo	0.3	
1146	63.6	7.03	1370	710	00	0.6	
1149	63.5	7.02	1359	710	00	0.9	pTW- 7.88
					·		
Did well dev	vater?	Yes (N6)	Gallons	actually	v evacuated:	0.9
Sampling Da	ite: 5/30/	17	Sampling Time	: 1155]	Depth to Wate	r: 7.89
Sample I.D.:	MW-14	/]	Laborato	ory: C	Test America	Other
Analyzed for	: TPH-G	BTEX	MTBE TPH-D (Oxygenate	es (5)	SEE CO	r
EB I.D. (if ap	oplicable):		@ Time I	Duplicat	e I.D. (i	f applicable):	
analyzed for	: TPH-G	BTEX	mtbe tph-d (Dxygenate	es (5) (Other:	
0.0. (if req'd): P re	-purge:	0.74 IN	^{mg} /L	eo:	st-purge.	0.65 IN CUP mg/L
).R.P. (if req	('d): Pre	-purge:		mV	Pos	st-purge:	mV

Equ	uilon Ente	rprises	LLC dba Shel	l Oil Products	US (Equilon)]	Field Data Sheet
BTS #:	170520-	GRI		Site: 97093	57	
Sampler:	2			Date: 5130	0	
Well I.D.:		•		Well Diamete	er: ② 3 4	6 8
Total Well	l Depth (TI): (?	3.11	Depth to Wat	er (DTW): 6	.91
	Free Produc			Thickness of	Free Product (fe	
Reference		eve	Grade	D.O. Meter (i		YSY HACH
DTW with	80% Rech	arge [(F	leight of Water	· Column x 0.20))+DTW]: ピ	15
Purge Method:	Bailer Disposable E Positive Air I Electric Subr	Displaceme	ent Extrac Other	Waterra Peristaltic ction Pump	Sampling Method	Disposable Bailer Extraction Port Dedicated Tubing
1 Case Volume	(Gals.) X Speci	<u>े</u> fied Volum	$= \frac{3.6}{\text{Calculated Vc}}$	Gals. Jume	ter Multiplier Well 0.04 4" 0.16 6" 0.37 Othe	Diameter Multiplier 0.65 1.47 er radius ² * 0.163
Time	Temp (°F)	pH	Cond. (mS or µS)	Turbidity (NTUs)	Gals. Removed	Observations
1300	65.2	6.79	994	116	1.0	
1302	65.1	6-83	987	92	2,0	
1305	65.1	6.94	985	8°C	3.0	DTW- 7,26
				·····		
Did well de	water?	Yes (No	Gallons actuall	y evacuated: -	3.0
Sampling D	ate: 5/30/	117	Sampling Time	: 1310	Depth to Wate	r: 7.26
Sample I.D.				Laboratory: (Test America	Other
Analyzed fo	or: TPH-G	BTEX	MTBE TPH-D	Oxygenates (5)	Other SEE	Coc
EB I.D. (if a	applicable):	:	@ . Time .	Duplicate I.D.		
Analyzed fo			MTBE TPH-D	Oxygenates (5)	Other:	
D.O. (if req'	d): Pro	e-purge.	1. 26	^{mg} / _L	ost-purge	1.37 ^{mg} / _L
).R.P. (if re	eq'd): Pro	e-purge:		mV P	ost-purge:	mV

Site: **BTS** #: 170530-GR2 97093397 Date: GR 5130/17 Sampler: Well Diameter: 23 4 6 8 Well I.D.: V-2 Depth to Water (DTW): $G \land \varphi$ Total Well Depth (TD): 13.29 Thickness of Free Product (feet): Depth to Free Product: ¥SI/ D.O. Meter (if req'd): GVQ HACH Referenced to: Grade 7.61 DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: Bailer Sampling Method: Bailer) Waterra Purge Method: Disposable Bailer Peristaltic Disposable Bailer Extraction Port **Extraction Pump** Positive Air Displacement **Dedicated Tubing** Electric Submersible Other Other: Well Diameter Multiplier Well Diameter Multiplier 4" 6" 0.65 1" 0.04 1.47 3.6 2" 0.16 1.2 (Gals.) X Gals. 3" radius² * 0.163 Other 0.37 Specified Volumes Calculated Volume 1 Case Volume Cond. Turbidity Observations (NTUs) Gals. Removed Temp (°F) (mS or pS) pН Time 1.2 6.92 998 227 66.1 1328 983 636 2.4 66.0 6.89 1331 3.0 WELL DEWATERE Ď \mathcal{O} 1334 58 GRAB 65.9 6.88 989 1405 3.0 Gallons actually evacuated: Did well dewater? Nes No Sampling Time: Depth to Water: Sampling Date: 5/30/17 7.58 1405 Laboratory: Fest America Other Sample I.D.: V-Z Oxygenates (5) Other SEE Cor Analyzed for: TPH-G BTEX MTBE TPH-D (a) Duplicate I.D. (if applicable): EB I.D. (if applicable): Time Analyzed for: TPH-D Oxygenates (5) Other: TPH-G BTEX MTBE mg/I mg/I D.O. (if req'd): Post-purge: 0 59 Pre-purge. 0.41 mλ mV Post-purge: O.R.P. (if req'd): Pre-purge:

Equilon Enterprises LLC dba Shell Oil Products US (Equilon) Field Data Sheet

LAB (LOCATION)



Equilon Enterprises LLC dba Shell Oil Products US Chain Of Custody Record

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Equilon Enterprises LLC dba Shell Oil Products US Chain Of Custody Record



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TEMPERATURE ON RECEIPT C ^o Cooler #1	Cooler #2	c	ooler #3				(8260B)																TEMPERATURE ON RECEIPT Cº
SPECIAL INSTRUCTIONS OR NOTES :		THELL CON	TRACT RAT				Purgeable																
		EDD NOT N	MBURSEME	NT RATE AP	PLIES		Pur		(80g		5 OXYS (8260B)												
			ERIFICATIO	n request	ED		rPH-GRO,		BTEX (8250B)		YS (8												
Email invoice to USAPimaging@aecom.com	1	LIXOVIDE L	EDD DISK				TPH		BTE		s oX												Container PID Readings or Laboratory Notes
Field Sample Identification	SAMPLING	MATRIX	PR	ESERVATIVE		NO. OF								1					1	1			
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ENVIRONMENTAL WELL, REMEDIATION COMPOUND, AND SITE INSPECTION FORM

Page Z of Z

INCIDENT #	

97093397 5/30/2017 DATE:

ADDRESS 2703 MARTIN LUTHER KING JR. WAY

GAKLAND, CA **CITY & STATE**

		Observations Upon Arrival Note Repairs Made														1_	54922	
Well ID	Manwa	ıy Cover	', Type, C	Condition	n & Size	Pa	abeled / inted perly*	(Gri	ll Cap ipper) dition	Well	Lock Co	ndition	Well Pad / Detailed Explanation of Maintenance Recommended		1 V	tos of /ell dition	Repair Date and PM Initials	
MW-12	Standpipe	Flush	G	Р	Size (inch)	Y	N	G	R	G	R	NL	G	Р		Y	N	
MW-13	Standpipe	Flush	G	Р	Size (inch)	Y	N	G	R	G	R	NL	G	Р		Y	N	
MW-14	Standpipe	Flush	G	Р	Size (inch)	Y	N	G	R	G	R	NL	G	Р		Y	N	
V-1	Standpipe	Flush	G	P	Size (Inch)	Y	N	G	R	G	R	NL	G	Р		Y	N	
V-2	Standpipe	Flush	G	Р	Size (inch)	Y	N	G	R	G	R	NL	G	Р		Y	N	
	Standpipe	Flush	G	P	Size (inch)	Y	N	G	R	G	R	NL	G	Р		Y	N	
	Standpipe	Flush	G	Р	Size (inch)	Y	N	G	R	G	R	NL	G	Р		Y	N	
	Standpipe	Flush	G	Р	Size (inch)	Ŷ	N	G	R	G	R	NL	G	Р		Y	N	
*****	Standpipe	Flush	G	Ρ	Size (inch)	Y	N	G	R	G	R	NL	G	Р		Y.	. N	
	Standpipe	Flush	G	Р	Size (inch)	Y	N	G	R	G	R	NL	G	P		Y	N	
	Standpipe	Flush	G	Р	Size (inch)	Y	N	G	R	G	R	NL	G	Р		Y	N	
		di ilizio energia en			ΤΟΤΑ	L # CAP	S REPLA	ACED =				= ΤΟΤΑΙ	_ # OF L	OCKS R	EPLACED	aliterationes.		
Condition of S Abando	Soil Boring P oned Monitori			P	N/A	lf P	OOR, Bor	ings/Well	IDs or Lo	ocation De	scription					Y	N	
(Check bo	n Compound oxes that app	Type ly)	Cond	ition of E	nclosure		ion of Are Enclosure		Com	ipound Se	curity	Emerge	ency Con Visible	tact Info	Cleaning / Repairs Recommended and Conducted		os of lition	Repair Date and PM Initials
NA Buildir Building w/ Fer	ng		G	P	NYA	~												
Fenced Con Traile	mpound		G		N/A	G	Р	N/A	G	P	N/A	Y	N	N/A		Y	N	
Number of Drums On-site	Does the I Source o				led Correctl /riting Legib		Dn	ım Condi	tion		n Drums ted to nmental		Located		Detailed Explanation of Any Issues Resolved	Dr	os of um lition	Date Drums Removed from Site and PM Initials
	Y	N	N/A	Y	N	N/A	G	Р	N/A	Y	N	Y	N	N/A		Y	N	

G = Good (Acceptable) R = Replaced

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

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

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

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

INCIDENT #

INCIDENT #

97093397

ENVIRONMENTAL WELL, REMEDIATION COMPOUND, AND SITE INSPECTION FORM

Page _/___ or ____

DATE:

5130/2017

2703 MARTIN LUTHER KING JR. WAY ADDRESS

OAKLAND, CA **CITY & STATE**

	Observations Upon Arrival																	
Well ID	Manwa	ıy Cover	r, Type, C	Condition	1 & Size	Pa	abeled / inted perly*	(Gri	l Cap pper) dition	Well	Lock Co	ndition	Su	l Pad / rface idition	Note Repairs Made Detailed Explanation of Maintenance Recommended and Performed	N	tos of /ell dition	Repair Date and PM Initials
mw-1	Standpipe	Flush	G	Р	Size (inch)	Y	N	G	R	G	R	NL	G	P			N	
MW-2	Standpipe	Flush	G	Р	Size (inch)	Y	N	G	R	G	R	NL	G	P		Y	N	
mw-3	Standpipe	Flush	G	Р	Size (inch)	Y	N	G	R	G	R	NL	G	Р		Y	N	
mw-4	Standpipe	Flush	G	Р	Size (inch)	Y	N	G	R	G	R	NL	G	P		Y	N	
MW-5	Standpipe	Flush	G	р	Size (inch)	Y	N	G	R	G	R	NL	G	Р		Y	Ň	
mw-6	Standpipe	Flush	G	P	Size (inch)	Y	N	G	R	G	R	NL	G	Р		Y	N	
mw-7	Standpipe	Flush	G	Р	Size (inch)	Y	N	G	R	G	R	NL	G	Р	· · ·	Y	N	
mw-g	Standpipe	Flush	G	Р	Size (inch)	Y	N	G	R	G	R	NL.	G	Р		Y	N	
mw-9	Standpipe	Flush	G	Р	Size (inch)	Y	N	G	R	G	R	NL	G	Р		Y.	. N	
MW-10	Standpipe	Flush	G	Р	Size (inch)	Y	N	G	R	G	R	NL	G	Р		Y	N	
mw-11	Standpipe	Flush	G	Р	Size (inch)	Y	N	G	R	G	R	NL	G	Р		Y	N	
					тота	L # CAP	S REPL	ACED =				= ΤΟΤΑΙ	L # OF L	OCKS R	EPLACED	<u>L</u>		
	Soll Boring P oned Monitori			Р	N/A	lf P	OOR, Boi	rings/Well	IDs or Lo	cation De	scription					Y	N	
	n Compound oxes that app		Cond	ition of E	nclosure		ion of Are Enclosure		Com	pound Sec	curity	Emerge	ency Con Visible	tact Info	Cleaning / Repairs Recommended and Conducted	Phot	os of	Repair Date and PM Initials
NA Buildi Building w/ Fe	ing		G	Р		~						See 1 Course				0.00000000		
Fenced Cor Traile	mpound		6		N/A	G	Р	N/A	G	Р	N/A	Y	N	N/A		Y	N	
Number of Drums On-site	Does the I Source o				led Correctly /riting Legib		Dn	um Condit	lon	Confirm Relat Environ	ed to		Located		Detailed Explanation of Any Issues Resolved	Phot Dri Conc	m	Date Drums Removed from Site and PM Initiats
	Y	N	N/A	Y	N	N/A	G	Р	N/A	Y	N	Y	N	N/A		Y	N	

G = Good (Acceptable) R = Replaced

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

Note: All repairs other than locks 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).

Print or type Name of Field Personnel & Consultant Company

NON-HAZARDOUS WASTE DATA FORM

D

			BESI #			
	Generator's Name and Mailing Address	Generator's Site Address ((if different than mailing address)			
	EQUILON ENTERPRISES, LLC C/O AECOM 300 S. GRAND AVE., 8TH FLOOR LOS ANGELES, CA 90071		ERPRISES LLC USF04645 UTHER KING JR WAY 94612	2 m		
	Generator's Phone: 213-503-8100					
	Container type removed from site:	Container type trans	sported to receiving facility:			
	Drums D Vacuum Truck D Roll-off Truck D Dur	np Truck 🔲 Drums 🛄 Vad	cuum Truck 🛛 🛛 Roll-off Truck	🗋 Dun	np Trucł	k
	Other TANK TRUCK	Other	1000 (1000 H, 1000 H			
TOR	Quantity <u>175.0 G</u> AL	Quantity	Volume			
GENERATOR	WASTE DESCRIPTION NON-HAZARDOUS WATER				/ATE	3
Ш	COMPONENTS OF WASTE PPM	% COMPO	NENTS OF WASTE	PPM		%
G	1	9 <u>9-100</u> % 3				
	2. <u>TPH</u>	<u></u> 1% 4				
	Waste Profile PROPER	аттев: pH <u>7-10</u> solid 💭 Lia	QUID 🖸 SLUDGE 🖸 SLUBRY 🗖	OTHER_		
	HANDLING INSTRUCTIONS:					
	Generator Printed/Typed Name Si GREGORY ROBERTS I The Generator certifies that the waste as described is 100% non-hazardous		2	Month	Day 30	Year 17
	GREGORY ROBERTS		Phone#			
~	GREGORY ROBERTS The Generator certifies that the waste as described is 100% non-hazardous Transporter 1 Company Name BLAINE TECH SERVICES, INC.		Phone#			
ER	GREGORY ROBERTS The Generator certifies that the waste as described is 100% non-hazardous Transporter 1 Company Name BLAINE TECH SERVICES, INC.				30	17
RTER	GREGORY ROBERTS Image: Compare the start of the waste as described is 100% non-hazardous Transporter 1 Company Name BLAINE TECH SERVICES, INC. Transporter 1 Printed/Typed Name Si	N	Phone#	5	30 Day	17
ORTER	GREGORY ROBERTS The Generator certifies that the waste as described is 100% non-hazardous Transporter 1 Company Name BLAINE TECH SERVICES, INC. Transporter 1 Printed/Typed Name GREGORY ROBERTS	N	Phone#	5	30	17
SPORTER	GREGORY ROBERTS Image: Compare the start of the waste as described is 100% non-hazardous Transporter 1 Company Name BLAINE TECH SERVICES, INC. Transporter 1 Printed/Typed Name Si	N	Phone#	5	30 Day	17
ANSPORTER	GREGORY ROBERTS The Generator certifies that the waste as described is 100% non-hazardous Transporter 1 Company Name BLAINE TECH SERVICES, INC. Transporter 1 Printed/Typed Name Si CREGARY ROBERTS Transporter Acknowledgment of Receipt of Materials Transporter 2 Company Name	N	Phone# 408-573-0555	5	30 Day	17
FRANSPORTER	GREGORY ROBERTS The Generator certifies that the waste as described is 100% non-hazardous Transporter 1 Company Name BLAINE TECH SERVICES, INC. Transporter 1 Printed/Typed Name Si GREGORY ROBERTS Transporter 2 Company Name NIETO & SONS TRUCKING, INC.	N	Phone# 408-573-0555	5	30 Day	17
TRANSPORTER	GREGORY ROBERTS The Generator certifies that the waste as described is 100% non-hazardous Transporter 1 Company Name BLAINE TECH SERVICES, INC. Transporter 1 Printed/Typed Name Si GREGORY ROBERTS Transporter 2 Company Name NIETO & SONS TRUCKING, INC.	gnature MA	Phone# 408-573-0555	5 Month 5	30 Day 30	17 Year 17
TRANSPORTE	GREGORY ROBERTS The Generator certifies that the waste as described is 100% non-hazardous Transporter 1 Company Name BLAINE TECH SERVICES, INC. Transporter 1 Printed/Typed Name Si GREGORY ROBERTS Transporter 2 Company Name NIETO & SONS TRUCKING, INC.	gnature MA	Phone# 408-573-0555	5 Month 5	30 Day 30	17 Year 17
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TRANSPORTE	GREGORY ROBERTS The Generator certifies that the waste as described is 100% non-hazardous Transporter 1 Company Name BLAINE TECH SERVICES, INC. Transporter 1 Printed/Typed Name Si CREGARY ROBERTS Transporter 2 Company Name NIETO & SONS TRUCKING, INC. Transporter 2 Printed/Typed Name Sig Transporter 2 Printed/Typed Name Sig Transporter 2 Printed/Typed Name	gnature MA	Phone# 408-573-0555 Phone# 714-990-6855	5 Month 5	30 Day 30	17 Year 17
TRANSPORTE	GREGORY ROBERTS The Generator certifies that the waste as described is 100% non-hazardous Transporter 1 Company Name BLAINE TECH SERVICES, INC. Transporter 1 Printed/Typed Name Si GREGARY ROBERTS Transporter Acknowledgment of Receipt of Materials Transporter 2 Company Name NIETO & SONS TRUCKING, INC. Transporter 2 Printed/Typed Name Sig Designated Facility Name and Site Address	gnature MA	Phone# 408-573-0555 Phone# 714-990-6855 Phone#	5 Month 5	30 Day 30	17 Year 17
TRANSPORTE	GREGORY ROBERTS The Generator certifies that the waste as described is 100% non-hazardous Transporter 1 Company Name BLAINE TECH SERVICES, INC. Transporter 1 Printed/Typed Name Si GREGORY ROBERTS Transporter 2 Company Name NIETO & SONS TRUCKING, INC. Transporter 2 Printed/Typed Name Sig Transporter 2 Printed/Typed Name Sig CRECORS ROBERTS Transporter Acknowledgment of Receipt of Materials Transporter 2 Printed/Typed Name Sig Cransporter Acknowledgment of Receipt of Materials Designated Facility Name and Site Address CROSBY & OVERTON 1630 W. 17TH STREET	gnature MA	Phone# 408-573-0555 Phone# 714-990-6855 Phone#	5 Month 5	30 Day 30	17 Year 17
FACILITY TRANSPORTE	GREGORY ROBERTS The Generator certifies that the waste as described is 100% non-hazardous Transporter 1 Company Name BLAINE TECH SERVICES, INC. Transporter 1 Printed/Typed Name Si GREGORY ROBERTS Transporter 2 Company Name NIETO & SONS TRUCKING, INC. Transporter 2 Printed/Typed Name Sig Transporter 2 Printed/Typed Name Sig NIETO & SONS TRUCKING, INC. Transporter Acknowledgment of Receipt of Materials Transporter Acknowledgment of Receipt of Materials Creating Name Sig CROSBY & OVERTON	gnature MA	Phone# 408-573-0555 Phone# 714-990-6855 Phone#	5 Month 5	30 Day 30	17 Year 17
FACILITY TRANSPORTE	GREGORY ROBERTS The Generator certifies that the waste as described is 100% non-hazardous Transporter 1 Company Name BLAINE TECH SERVICES, INC. Transporter 1 Printed/Typed Name Si GREGORY ROBERTS Transporter 2 Company Name NIETO & SONS TRUCKING, INC. Transporter 2 Printed/Typed Name Sig Transporter 2 Printed/Typed Name Sig CRECORS ROBERTS Transporter Acknowledgment of Receipt of Materials Transporter 2 Printed/Typed Name Sig Cransporter Acknowledgment of Receipt of Materials Designated Facility Name and Site Address CROSBY & OVERTON 1630 W. 17TH STREET	gnature MA	Phone# 408-573-0555 Phone# 714-990-6855 Phone#	5 Month 5	30 Day 30	17 Year 17
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FACILITY TRANSPORTE	GREGORY ROBERTS The Generator certifies that the waste as described is 100% non-hazardous Transporter 1 Company Name BLAINE TECH SERVICES, INC. Transporter 1 Printed/Typed Name Si GREGARY ROBERTS Transporter 2 Company Name NIETO & SONS TRUCKING, INC. Transporter 2 Printed/Typed Name Sig NIETO & SONS TRUCKING, INC. Transporter 2 Printed/Typed Name Sig NETO & SONS TRUCKING, INC. Transporter 2 Printed/Typed Name Sig NETO & ONS TRUCKING, INC. Transporter 2 Printed/Typed Name Sig Designated Facility Name and Site Address CROSBY & OVERTON 1630 W. 17TH STREET LONG BEACH, CA 90813	gnature MA	Phone# 408-573-0555 Phone# 714-990-6855 Phone#	5 Month 5	30 Day 30	17 Year 17
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Appendix **B**

Analytical Report

(TestAmerica Laboratories, Inc.)



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: 440-185499-1

Client Project/Site: Shell - 2703 Martin Luther King Jr. Way,

For:

AECOM Technical Services Inc. 300 Lakeside Drive Suite 400 Oakland, California 94612

Attn: Shane Olton

2 G.Ty

Authorized for release by: 6/7/2017 12:08:13 PM Laura Turpen, Project Manager I

(916)374-4414 laura.turpen@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.

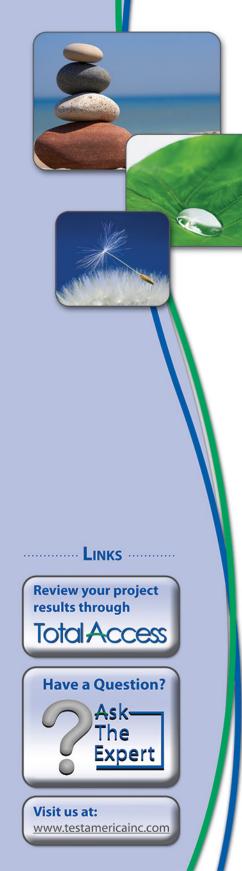


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QC Sample Results	15
QC Association Summary	20
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Certification Summary	23
Chain of Custody	24
Receipt Checklists	26

TestAmerica Job ID: 440-185499-1

Client: AECOM Technical Services Inc. Project/Site: Shell - 2703 Martin Luther King Jr. Way,

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
440-185499-1	MW-4	Water	05/30/17 14:20	06/01/17 11:4
440-185499-2	MW-5	Water	05/30/17 13:05	06/01/17 11:4
440-185499-3	MW-6	Water	05/30/17 14:35	06/01/17 11:43
440-185499-4	MW-7	Water	05/30/17 13:50	06/01/17 11:43
440-185499-5	MW-8	Water	05/30/17 12:20	06/01/17 11:43
440-185499-6	MW-10	Water	05/30/17 14:50	06/01/17 11:43
440-185499-7	MW-11	Water	05/30/17 15:10	06/01/17 11:43
440-185499-8	MW-13	Water	05/30/17 11:30	06/01/17 11:43
440-185499-9	MW-14	Water	05/30/17 11:55	06/01/17 11:43
440-185499-10	V-1	Water	05/30/17 13:10	06/01/17 11:4
440-185499-11	V-2	Water	05/30/17 14:05	06/01/17 11:4

TestAmerica Irvine

Job ID: 440-185499-1

Laboratory: TestAmerica Irvine

Narrative

Job Narrative 440-185499-1

Comments

No additional comments.

Receipt

The samples were received on 6/1/2017 11:43 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.9° C.

GC/MS VOA

Method(s) 8260B: The following sample was diluted due to the nature of the sample matrix: MW-13 (440-185499-8). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

VOA Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

RL

1000

Limits

76 - 132

80 - 120

80 - 128

RL

10

10

20

10

10

20

I imits

80 - 120

76 - 132

80 - 128

MDL Unit

MDL Unit

ug/L

ug/L

ug/L

ug/L

ug/L

ug/L

ug/L

D

D

Prepared

Prepared

Prepared

Prepared

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

11000

107

102

107

2800

94

41

ND

150

41

102

107

107

%Recovery

Qualifier

Result Qualifier

%Recovery

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

Result Qualifier

Qualifier

Client Sample ID: MW-4

Date Collected: 05/30/17 14:20

Date Received: 06/01/17 11:43

Volatile Fuel Hydrocarbons

Dibromofluoromethane (Surr)

4-Bromofluorobenzene (Surr)

Toluene-d8 (Surr)

Analyte

(C4-C12) Surrogate

Analyte

Benzene

o-Xylene

Toluene

Surrogate

Ethylbenzene

Xylenes, Total

Toluene-d8 (Surr)

m,p-Xylene

Lab Sample ID: 440-185499-1

Analyzed

06/05/17 09:49

Analyzed

06/05/17 09:49

06/05/17 09:49

06/05/17 09:49

Analyzed

06/05/17 09:49

06/05/17 09:49

06/05/17 09:49

06/05/17 09:49

06/05/17 09:49

06/05/17 09:49

Analyzed

06/05/17 09:49

06/05/17 09:49

06/05/17 09:49

Lab Sample ID: 440-185499-2

Matrix: Water

20

20

20

Matrix: Water

Dil Fac 20 Dil Fac 20 20 20 Dil Fac

Client Sample ID: MW-5

4-Bromofluorobenzene (Surr)

Dibromofluoromethane (Surr)

Date Collected: 05/30/17 13:05 Date Received: 06/01/17 11:43

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS Analyte **Result Qualifier** RL MDL Unit D Prepared Analyzed Dil Fac 10000 Volatile Fuel Hydrocarbons 71000 ug/L 06/05/17 11:13 200 (C4-C12) Surrogate Qualifier l imits Prepared Dil Fac %Recovery Analyzed Dibromofluoromethane (Surr) 106 76 - 132 06/05/17 11:13 200 4-Bromofluorobenzene (Surr) 100 80 - 120 06/05/17 11:13 200 Toluene-d8 (Surr) 109 80 - 128 06/05/17 11:13 200 Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	, RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	2500		100		ug/L			06/05/17 11:13	200
Ethylbenzene	5500		100		ug/L			06/05/17 11:13	200
m,p-Xylene	18000		200		ug/L			06/05/17 11:13	200
o-Xylene	5800		100		ug/L			06/05/17 11:13	200
Toluene	2500		100		ug/L			06/05/17 11:13	200
Xylenes, Total	24000		200		ug/L			06/05/17 11:13	200
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		80 - 120			-		06/05/17 11:13	200
Dibromofluoromethane (Surr)	106		76 - 132					06/05/17 11:13	200
Toluene-d8 (Surr)	109		80 - 128					06/05/17 11:13	200

TestAmerica Irvine

Lab Sample ID: 440-185499-3 Matrix: Water

Date Collected: 05/30/17 14:35 Date Received: 06/01/17 11:43

Client Sample ID: MW-6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Volatile Fuel Hydrocarbons (C4-C12)	ND		50		ug/L			06/06/17 03:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	99		76 - 132					06/06/17 03:44	1
4-Bromofluorobenzene (Surr)	92		80 - 120					06/06/17 03:44	1
Toluene-d8 (Surr)	106		80 - 128					06/06/17 03:44	1
Method: 8260B - Volatile Orga		•			11-24	-	D	A	D'I 5.
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Denzene									
Benzene	ND		0.50		ug/L			06/06/17 03:44	1
	ND ND		0.50 0.50		ug/L ug/L			06/06/17 03:44 06/06/17 03:44	1 1
Ethylbenzene					-				1 1 1
Ethylbenzene m,p-Xylene	ND		0.50		ug/L			06/06/17 03:44	1 1 1 1
Ethylbenzene m,p-Xylene o-Xylene	ND ND		0.50 1.0		ug/L ug/L			06/06/17 03:44 06/06/17 03:44	1 1 1 1 1
Benzene Ethylbenzene m,p-Xylene o-Xylene Toluene Xylenes, Total	ND ND ND		0.50 1.0 0.50		ug/L ug/L ug/L			06/06/17 03:44 06/06/17 03:44 06/06/17 03:44	1 1 1 1 1 1
Ethylbenzene m,p-Xylene o-Xylene Toluene Xylenes, Total	ND ND ND ND	Qualifier	0.50 1.0 0.50 0.50		ug/L ug/L ug/L ug/L		Prepared	06/06/17 03:44 06/06/17 03:44 06/06/17 03:44 06/06/17 03:44	1 1 1 1 1 2 <i>Dil Fac</i>
Ethylbenzene m,p-Xylene o-Xylene Toluene Xylenes, Total Surrogate	ND ND ND ND	Qualifier	0.50 1.0 0.50 0.50 1.0		ug/L ug/L ug/L ug/L		Prepared	06/06/17 03:44 06/06/17 03:44 06/06/17 03:44 06/06/17 03:44 06/06/17 03:44	1 1 1 1 1 1 5 1 <i>Dil Fac</i>
Ethylbenzene m,p-Xylene o-Xylene Toluene Xylenes, Total	ND ND ND ND %Recovery	Qualifier	0.50 1.0 0.50 0.50 1.0 <i>Limits</i>		ug/L ug/L ug/L ug/L		Prepared	06/06/17 03:44 06/06/17 03:44 06/06/17 03:44 06/06/17 03:44 06/06/17 03:44 Analyzed	1 1 1 1 1 1 5 0 1 7 1

Client Sample ID: MW-7 Date Collected: 05/30/17 13:50

Date Received: 06/01/17 11:43

Dibromofluoromethane (Surr)

Toluene-d8 (Surr)

Method: 8260B/CA_LUFTM		-							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Volatile Fuel Hydrocarbons	55		50		ug/L			06/06/17 04:14	1
(C4-C12)					-				
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	102		76 - 132			-		06/06/17 04:14	1
Dibromofluoromethane (Surr) 4-Bromofluorobenzene (Surr)	102 92		76 - 132 80 - 120			-		06/06/17 04:14 06/06/17 04:14	1

Malatila Ormania Commounda (CC/MC)

102

105

Method: 8260B - Volatile O Analyte	Result C	•	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.50		ug/L			06/06/17 04:14	1
Ethylbenzene	ND		0.50		ug/L			06/06/17 04:14	1
m,p-Xylene	ND		1.0		ug/L			06/06/17 04:14	1
o-Xylene	ND		0.50		ug/L			06/06/17 04:14	1
Toluene	ND		0.50		ug/L			06/06/17 04:14	1
Xylenes, Total	ND		1.0		ug/L			06/06/17 04:14	1
Surrogate	%Recovery G	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		80 - 120					06/06/17 04:14	1

76 - 132

80 - 128

1

1

06/06/17 04:14

06/06/17 04:14

Lab Sample ID: 440-185499-4 Matrix: Water

Te

TestAmerica Job ID: 440-185499-1

Lab Sample ID: 440-185499-5

Matrix: Water

Client: AECOM Technical Services Inc. Project/Site: Shell - 2703 Martin Luther King Jr. Way,

Client Sample ID: MW-8 Date Collected: 05/30/17 12:20 Date Received: 06/01/17 11:43

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Volatile Fuel Hydrocarbons (C4-C12)	470		50		ug/L			06/06/17 04:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	99		76 - 132			-		06/06/17 04:44	1
4-Bromofluorobenzene (Surr)	90		80 - 120					06/06/17 04:44	1
Toluene-d8 (Surr)	105		80 - 128					06/06/17 04:44	1
Benzene Ethylbenzene	60 1.3		0.50 0.50		ug/L ug/L			06/06/17 04:44 06/06/17 04:44	1
Ethylbenzene	1.3		0.50		ug/L				1
m n Xylono	0.0		10		110/1				1
m,p-Xylene	9.0 3.5		1.0 0.50		ug/L			06/06/17 04:44 06/06/17 04:44	1
o-Xylene	3.5		0.50		ug/L			06/06/17 04:44	1 1 1
									1 1 1 1
o-Xylene Toluene	3.5 0.74	Qualifier	0.50 0.50		ug/L ug/L		Prepared	06/06/17 04:44 06/06/17 04:44	1 1 1 Dil Fac
o-Xylene Toluene Xylenes, Total	3.5 0.74 13	Qualifier	0.50 0.50 1.0		ug/L ug/L		Prepared	06/06/17 04:44 06/06/17 04:44 06/06/17 04:44	·
o-Xylene Toluene Xylenes, Total Surrogate	3.5 0.74 13 %Recovery	Qualifier	0.50 0.50 1.0 <i>Limits</i>		ug/L ug/L		Prepared	06/06/17 04:44 06/06/17 04:44 06/06/17 04:44 Analyzed	Dil Fac

Client Sample ID: MW-10 Date Collected: 05/30/17 14:50 Date Received: 06/01/17 11:43

Toluene-d8 (Surr)

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS Analyte Result Qualifier MDL Unit D Prepared Analyzed RL Dil Fac 50 82 ug/L 06/05/17 13:06 Volatile Fuel Hydrocarbons 1 (C4-C12) Dil Fac Surrogate %Recovery Qualifier Limits Prepared Analyzed Dibromofluoromethane (Surr) 108 76 - 132 06/05/17 13:06 1 4-Bromofluorobenzene (Surr) 98 80 - 120 06/05/17 13:06 1 Toluene-d8 (Surr) 106 80 - 128 06/05/17 13:06 1

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

106

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.50		ug/L			06/05/17 13:06	1
Ethylbenzene	ND		0.50		ug/L			06/05/17 13:06	1
m,p-Xylene	ND		1.0		ug/L			06/05/17 13:06	1
o-Xylene	ND		0.50		ug/L			06/05/17 13:06	1
Toluene	ND		0.50		ug/L			06/05/17 13:06	1
Xylenes, Total	ND		1.0		ug/L			06/05/17 13:06	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		80 - 120			-		06/05/17 13:06	1
Dibromofluoromethane (Surr)	108		76 - 132					06/05/17 13:06	1

80 - 128

TestAmerica Irvine

1

06/05/17 13:06

Lab Sample ID: 440-185499-6 Matrix: Water

Lab Sample ID: 440-185499-7 Matrix: Water

Date Collected: 05/30/17 15:10 Date Received: 06/01/17 11:43

Client Sample ID: MW-11

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Volatile Fuel Hydrocarbons (C4-C12)	ND		50		ug/L			06/05/17 13:34	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	107		76 - 132					06/05/17 13:34	1
4-Bromofluorobenzene (Surr)	99		80 - 120					06/05/17 13:34	1
Toluene-d8 (Surr)	111		80 - 128					06/05/17 13:34	1
Method: 8260B - Volatile Orga Analyte		unds (GC/l Qualifier	MS) RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND	guanner	0.50		ug/L		Tiepareu	06/05/17 13:34	1
Bonzono			0.00		ug/L				
Ethylbenzene	ND		0.50		ua/l			06/05/17 13:34	1
Ethylbenzene m,p-Xylene	ND ND		0.50 1.0		ug/L ug/L			06/05/17 13:34 06/05/17 13:34	1 1
m,p-Xylene					ug/L ug/L ug/L				1 1 1
m,p-Xylene o-Xylene	ND		1.0		ug/L			06/05/17 13:34	1 1 1 1
Ethylbenzene m,p-Xylene o-Xylene Toluene Xylenes, Total	ND ND		1.0 0.50		ug/L ug/L			06/05/17 13:34 06/05/17 13:34	1 1 1 1 1
m,p-Xylene o-Xylene Toluene	ND ND ND	Qualifier	1.0 0.50 0.50		ug/L ug/L ug/L		Prepared	06/05/17 13:34 06/05/17 13:34 06/05/17 13:34	1 1 1 1 1 Dil Fac
m,p-Xylene o-Xylene Toluene Xylenes, Total	ND ND ND ND	Qualifier	1.0 0.50 0.50 1.0		ug/L ug/L ug/L		Prepared	06/05/17 13:34 06/05/17 13:34 06/05/17 13:34 06/05/17 13:34	1 1 1 1 1 2 1 <i>Dil Fac</i>
m,p-Xylene o-Xylene Toluene Xylenes, Total Surrogate	ND ND ND ND	Qualifier	1.0 0.50 0.50 1.0 <i>Limits</i>		ug/L ug/L ug/L		Prepared	06/05/17 13:34 06/05/17 13:34 06/05/17 13:34 06/05/17 13:34 <i>Analyzed</i>	1 1 1 1 1 2 <i>Dil Fac</i> 1 1

Client Sample ID: MW-13 Date Collected: 05/30/17 11:30 Date Received: 06/01/17 11:43

Lab Sample ID: 440-185499-8 Matrix: Water

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac 250 06/05/17 14:02 **Volatile Fuel Hydrocarbons** 1700 ug/L 5 (C4-C12) Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 06/05/17 14:02 5 Dibromofluoromethane (Surr) 107 76 - 132 4-Bromofluorobenzene (Surr) 102 80 - 120 06/05/17 14:02 5 Toluene-d8 (Surr) 107 80 - 128 06/05/17 14:02 5

Method: 8260B - Volatile Organic Compounds (GC/MS) Result Qualifier Analyte RL MDL Unit D Prepared Analyzed Dil Fac Benzene 26 2.5 ug/L 06/05/17 14:02 5 Ethylbenzene ND 2.5 ug/L 06/05/17 14:02 5 m,p-Xylene ND 5.0 ug/L 06/05/17 14:02 5 o-Xylene ND 2.5 ug/L 06/05/17 14:02 5 Toluene ND 2.5 ug/L 06/05/17 14:02 5 ND Xylenes, Total 5.0 ug/L 06/05/17 14:02 5

Surrogate	%Recovery	Qualifier	Limits	Prepared Analyze	I Dil Fac
4-Bromofluorobenzene (Surr)	102		80 - 120	06/05/17 14	:02 5
Dibromofluoromethane (Surr)	107		76 - 132	06/05/17 14	:02 5
Toluene-d8 (Surr)	107		80 - 128	06/05/17 14	:02 5

Client: AECOM Technical Services Inc. Project/Site: Shell - 2703 Martin Luther King Jr. Way,

Lab Sample ID: 440-185499-9 Matrix: Water

Date Collected: 05/30/17 11:55 Date Received: 06/01/17 11:43

Client Sample ID: MW-14

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Volatile Fuel Hydrocarbons (C4-C12)	2400		50		ug/L			06/06/17 05:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	101		76 - 132					06/06/17 05:13	1
4-Bromofluorobenzene (Surr)	96		80 - 120					06/06/17 05:13	1
Toluene-d8 (Surr)	111		80 - 128					06/06/17 05:13	1
Method: 8260B - Volatile O Analyte Benzene	Result	Qualifier	RL 0.50	MDL	Unit ug/L	D	Prepared	Analyzed 06/06/17 05:13	Dil Fac
	Result	Qualifier		MDL		D	Prepared		Dil Fac
Analyte		Qualifier		MDL		<u>D</u>	Prepared		Dil Fac 1 1
Analyte Benzene	1.9	Qualifier	0.50	MDL	ug/L	D	Prepared	06/06/17 05:13	Dil Fac 1 1 1
Analyte Benzene Ethylbenzene	1.9 1.1	Qualifier	0.50	MDL	ug/L ug/L	<u> </u>	Prepared	06/06/17 05:13 06/06/17 05:13	Dil Fac 1 1 1 1
Analyte Benzene Ethylbenzene m,p-Xylene	1.9 1.1 ND	Qualifier	0.50 0.50 1.0	MDL	ug/L ug/L ug/L	<u> </u>	Prepared	06/06/17 05:13 06/06/17 05:13 06/06/17 05:13	Dil Fac 1 1 1 1 1
Analyte Benzene Ethylbenzene m,p-Xylene o-Xylene	1.9 1.1 ND ND	Qualifier	0.50 0.50 1.0 0.50	MDL	ug/L ug/L ug/L ug/L	<u> </u>	Prepared	06/06/17 05:13 06/06/17 05:13 06/06/17 05:13 06/06/17 05:13	Dil Fac 1 1 1 1 1 1 1
Analyte Benzene Ethylbenzene m,p-Xylene o-Xylene Toluene	1.9 1.1 ND ND ND		0.50 0.50 1.0 0.50 0.50	MDL	ug/L ug/L ug/L ug/L ug/L	<u> </u>	Prepared	06/06/17 05:13 06/06/17 05:13 06/06/17 05:13 06/06/17 05:13 06/06/17 05:13 06/06/17 05:13	1 1 1 1 1 1 1
Analyte Benzene Ethylbenzene m,p-Xylene o-Xylene Toluene Xylenes, Total	1.9 1.1 ND ND ND		0.50 0.50 1.0 0.50 0.50 1.0	MDL	ug/L ug/L ug/L ug/L ug/L	<u>D</u>		06/06/17 05:13 06/06/17 05:13 06/06/17 05:13 06/06/17 05:13 06/06/17 05:13 06/06/17 05:13	1 1 1 1 1 1 1
Analyte Benzene Ethylbenzene m,p-Xylene o-Xylene Toluene Xylenes, Total Surrogate	1.9 1.1 ND ND ND %Recovery		0.50 0.50 1.0 0.50 0.50 1.0 <i>Limits</i>	MDL	ug/L ug/L ug/L ug/L ug/L	<u> </u>		06/06/17 05:13 06/06/17 05:13 06/06/17 05:13 06/06/17 05:13 06/06/17 05:13 06/06/17 05:13 06/06/17 05:13	Dil Fac 1 1 1 1 1 1 1 Dil Fac 1 1 1

Client Sample ID: V-1 Date Collected: 05/30/17 13:10 Date Received: 06/01/17 11:43

Lab Sample ID: 440-185499-10 Matrix: Water

Analyzed

D

Prepared

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS Analyte Result Qualifier MDL Unit D Prepared Analyzed RL Volatile Fuel Hydrocarbons (C4-C12) ND 50 ug/L 06/05/17 14:58 Surrogate %Recovery Qualifier Limits Prepared Analyzed Dibromofluoromethane (Surr) 103 06/05/17 14:58 76 - 132 4-Bromofluorobenzene (Surr) 101 80 - 120 06/05/17 14:58 1 Toluene-d8 (Surr) 107 80 - 128 06/05/17 14:58 1

Method: 8260B - Volatile Organic Compounds (GC/MS) Result Qualifier RL MDL Unit Analyte

Benzene	ND	0.50	ug/L	06/05/17 14:58	1
Ethylbenzene	ND	0.50	ug/L	06/05/17 14:58	1
m,p-Xylene	ND	1.0	ug/L	06/05/17 14:58	1
o-Xylene	ND	0.50	ug/L	06/05/17 14:58	1
Toluene	ND	0.50	ug/L	06/05/17 14:58	1
Xylenes, Total	ND	1.0	ug/L	06/05/17 14:58	1
	NB	1.0	ug/L	00/00/11 14:00	

Surrogate	%Recovery	Qualifier	Limits	Prepared Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		80 - 120	06/05/17 14:5	3 1
Dibromofluoromethane (Surr)	103		76 - 132	06/05/17 14:5	3 1
Toluene-d8 (Surr)	107		80 - 128	06/05/17 14:5	3 1

TestAmerica Irvine

Dil Fac

5

Client: AECOM Technical Services Inc. Project/Site: Shell - 2703 Martin Luther King Jr. Way,

Lab Sample ID: 440-185499-11 Matrix: Water

5

Date Collected: 05/30/17 14:05 Date Received: 06/01/17 11:43

Client Sample ID: V-2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Volatile Fuel Hydrocarbons (C4-C12)	20000		2000		ug/L			06/06/17 12:13	40
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	108		76 - 132			-		06/06/17 12:13	40
4-Bromofluorobenzene (Surr)	96		80 - 120					06/06/17 12:13	40
Toluene-d8 (Surr)	104		80 - 128					06/06/17 12:13	40
Benzene Ethylbenzene m.p-Xvlene	170 2200 880		20 20 40		ug/L ug/L ug/L			06/06/17 12:13 06/06/17 12:13 06/06/17 12:13	40 40 40
m,p-Xylene	880		40		ug/L			06/06/17 12:13	40
o-Xylene	61		20		ug/L			06/06/17 12:13	40
Toluene	50		20		ug/L			06/06/17 12:13	40
Xylenes, Total	940		40		ug/L			06/06/17 12:13	40
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		80 - 120			-		06/06/17 12:13	40
Dibromofluoromethane (Surr)	108		76 - 132					06/06/17 12:13	40
Toluene-d8 (Surr)	104		80 - 128					06/06/17 12:13	40

Method Summary

Client: AECOM Technical Services Inc.

Project/Site: Shell - 2703 Martin Luther King Jr. Way,

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL IRV
8260B/CA_LUFT	M Volatile Organic Compounds by GC/MS	SW846	TAL IRV

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

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

Lab Chronicle

Initial

Amount

10 mL

10 mL

Final

Amount

10 mL

10 mL

Batch

Number

409956

409955

Dil

20

20

Factor

Run

Client: AECOM Technical Services Inc. Project/Site: Shell - 2703 Martin Luther King Jr. Way,

Batch

Method

8260B

S

8260B/CA_LUFTM

7

Lab Sample ID: 440-185499-2 Matrix: Water

Lab Sample ID: 440-185499-3

Lab Sample ID: 440-185499-4

Lab Sample ID: 440-185499-5

Prepared

or Analyzed Analyst

06/05/17 09:49 HR

06/05/17 09:49 HR

Date Collected: 05/30/17 13:05 Date Received: 06/01/17 11:43

Client Sample ID: MW-5

Client Sample ID: MW-4

Date Collected: 05/30/17 14:20

Date Received: 06/01/17 11:43

Prep Type

Total/NA

Total/NA

Batch

Туре

Analysis

Analysis

	Batch	Batch	_	Dil	Initial	Final	Batch	Prepared		
Prep Type Total/NA	Type Analysis	- Method 8260B	Run	Factor 200	Amount 10 mL	Amount 10 mL	Number 409956	or Analyzed 06/05/17 11:13	Analyst HR	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTM S		200	10 mL	10 mL	409955	06/05/17 11:13	HR	TAL IRV

Client Sample ID: MW-6 Date Collected: 05/30/17 14:35 Date Received: 06/01/17 11:43

Ргер Туре	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	410111	06/06/17 03:44	K1S	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTM S	1	1	10 mL	10 mL	410110	06/06/17 03:44	K1S	TAL IRV

Client Sample ID: MW-7 Date Collected: 05/30/17 13:50 Date Received: 06/01/17 11:43

Prep Type Total/NA	Batch Type Analysis	Batch 	Run	Dil Factor	Initial Amount 10 mL	Final Amount 10 mL	Batch Number 410111	Prepared or Analyzed 06/06/17 04:14	Analyst K1S	Lab TAL IRV
Total/NA	Analysis	8260B/CA_LUFTM S		1	10 mL	10 mL	410110	06/06/17 04:14	K1S	TAL IRV

Client Sample ID: MW-8 Date Collected: 05/30/17 12:20 Date Received: 06/01/17 11:43

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA Total/NA	Analysis Analysis	8260B 8260B/CA LUFTM		1	10 mL 10 mL	10 mL 10 mL	410111 410110	06/06/17 04:44 06/06/17 04:44		TAL IRV TAL IRV
TOTAI/INA	Analysis	S		I	10 IIIL	10 IIIL	410110	00/00/17 04:44	KI5	

TestAmerica Irvine

Lab

TAL IRV

TAL IRV

Matrix: Water

Matrix: Water

Matrix: Water

Page 12 of 26

Lab Chronicle

Initial

Amount

10 mL

10 mL

Final

Amount

10 mL

10 mL

Batch

Number

409956

409955

Dil

1

1

Factor

Run

Client: AECOM Technical Services Inc. Project/Site: Shell - 2703 Martin Luther King Jr. Way,

Batch

Method

8260B/CA LUFTM

8260B

S

Client Sample ID: MW-10

Date Collected: 05/30/17 14:50

Date Received: 06/01/17 11:43

Client Sample ID: MW-11 Date Collected: 05/30/17 15:10

Prep Type

Total/NA

Total/NA

Batch

Туре

Analysis

Analysis

Lab Sample ID: 440-185499-6

Analyst

Prepared

or Analyzed

06/05/17 13:06 HR

06/05/17 13:06 HR

Lab Sample ID: 440-185499-7 Matrix: Water

Lab Sample ID: 440-185499-8

Lab Sample ID: 440-185499-9

Lab Sample ID: 440-185499-10

Matrix: Water

Lab

TAL IRV

TAL IRV

Matrix: Water

Matrix: Water

Matrix: Water

Date Receive	d: 06/01/17 1	1:43									-
Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab	
Total/NA	Analysis	8260B		1	10 mL	10 mL	409956	06/05/17 13:34	HR	TAL IRV	
Total/NA	Analysis	8260B/CA_LUFTM S		1	10 mL	10 mL	409955	06/05/17 13:34	HR	TAL IRV	

Client Sample ID: MW-13 Date Collected: 05/30/17 11:30 Date Received: 06/01/17 11:43

Prep Type Total/NA	Batch Type Analysis	Batch Method 8260B	Run	Dil Factor	Initial Amount 10 mL	Final Amount 10 mL	Batch Number 409956	Prepared or Analyzed 06/05/17 14:02	Analyst HR	- Lab TAL IRV
Total/NA	Analysis	8260B/CA_LUFTM S		5	10 mL	10 mL	409955	06/05/17 14:02	HR	TAL IRV

Client Sample ID: MW-14 Date Collected: 05/30/17 11:55 Date Received: 06/01/17 11:43

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	410111	06/06/17 05:13	K1S	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTM S		1	10 mL	10 mL	410110	06/06/17 05:13	K1S	TAL IRV

Client Sample ID: V-1 Date Collected: 05/30/17 13:10 Date Received: 06/01/17 11:43

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	409956	06/05/17 14:58	HR	TAL IRV
Total/NA	Analysis	8260B/CA_LUFTM		1	10 mL	10 mL	409955	06/05/17 14:58	HR	TAL IRV

TestAmerica Irvine

Lab Chronicle

Client: AECOM Technical Services Inc. Project/Site: Shell - 2703 Martin Luther King Jr. Way,

Lab Sample ID: 440-185499-11

Matrix: Water

Client Sample ID: V-2 Date Collected: 05/30/17 14:05 Date Received: 06/01/17 11:43

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Fotal/NA	Analysis	8260B		40	10 mL	10 mL	410226	06/06/17 12:13	RM	TAL IRV
Fotal/NA	Analysis	8260B/CA_LUFTM S		40	10 mL	10 mL	410227	06/06/17 12:13	RM	TAL IRV

Laboratory References:

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

TestAmerica Irvine

RL

0.50

0.50

1.0

0.50

0.50

Limits

80 - 120

76 - 132

80 - 128

1.0

MDL Unit

ug/L

ug/L

ug/L

ug/L

ug/L

ug/L

D

Prepared

Client: AECOM Technical Services Inc. Project/Site: Shell - 2703 Martin Luther King Jr. Way,

Lab Sample ID: MB 440-409956/4

Matrix: Water

Analyte

Benzene

Ethylbenzene

Xylenes, Total

Surrogate

Toluene-d8 (Surr)

m,p-Xylene

o-Xylene

Toluene

Analysis Batch: 409956

4-Bromofluorobenzene (Surr)

Dibromofluoromethane (Surr)

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

MB MB

ND

ND

ND

ND

ND

ND

101

102

111

%Recovery

MB MB

Qualifier

Result Qualifier

Client Sample ID: Method Blank

Analyzed

06/05/17 08:24

06/05/17 08:24

06/05/17 08:24

Prep Type: Total/NA

2 3 4

06/05/17 08:24 1 06/05/17 08:24 1 06/05/17 08:24 1 **Analyzed Dil Fac** 1 06/05/17 08:24 1

Dil Fac

1

1

1

Prepared	Analyzed	Dil Fac
	06/05/17 08:24	1
	06/05/17 08:24	1
	06/05/17 08:24	1

Lab Sample ID: LCS 440-409956/5 Matrix: Water Analysis Batch: 409956

-	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	25.0	27.7		ug/L		111	68 - 130	
Ethylbenzene	25.0	27.4		ug/L		109	70 - 130	
n,p-Xylene	25.0	28.0		ug/L		112	70 - 130	
p-Xylene	25.0	27.5		ug/L		110	70 - 130	
Toluene	25.0	28.4		ug/L		114	70 - 130	

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	99		80 - 120
Dibromofluoromethane (Surr)	104		76 - 132
Toluene-d8 (Surr)	105		80 - 128

Lab Sample ID: 440-185499-1 MS Matrix: Water Analysis Batch: 409956

Analysis Datch. 403330										
	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	2800		500	3080	4	ug/L		55	66 - 130	
Ethylbenzene	94		500	641		ug/L		110	70 - 130	
m,p-Xylene	41		500	586		ug/L		109	70 - 133	
o-Xylene	ND		500	561		ug/L		110	70 - 133	
Toluene	150		500	691		ug/L		108	70 - 130	
	MS	MS								
Surrogate	%Recovery	Qualifier	Limits							
4-Bromofluorobenzene (Surr)	99		80 - 120							
Dibromofluoromethane (Surr)	108		76 - 132							
Toluene-d8 (Surr)	104		80 - 128							

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

Client Sample ID: MW-4 Prep Type: Total/NA

MSD MSD

2820 4

609

553

529

666

Result Qualifier

Unit

ug/L

ug/L

ug/L

ug/L

ug/L

D

Spike

Added

500

500

500

500

500

Limits

80 - 120

76 - 132

80 - 128

Client: AECOM Technical Services Inc. Project/Site: Shell - 2703 Martin Luther King Jr. Way,

Lab Sample ID: 440-185499-1 MSD

Matrix: Water

Analyte

Benzene

Ethylbenzene

m,p-Xylene

o-Xylene

Toluene

Surrogate

Toluene-d8 (Surr)

Matrix: Water

Toluene-d8 (Surr)

Analyte

Analysis Batch: 409956

4-Bromofluorobenzene (Surr)

Dibromofluoromethane (Surr)

Lab Sample ID: MB 440-410111/4

%Rec.

Limits

66 - 130

70 - 130

70 - 133

70 - 133

70 - 130

D %Rec

3

103

102

104

103

Prepared

Client Sample ID: MW-4

Prep Type: Total/NA

RPD

9

5

6

6

4

RPD

Limit

20

20

25

20

20

Dil Fac

1

8

Client Sample ID: Method Blank Prep Type: Total/NA

Analyzed

06/05/17 19:51

Prep Type: Total/NA

Client Sample ID: Lab Control Sample

Analysis Batch: 410111 MB MB **Result Qualifier** RL MDL Unit

108

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

Sample Sample

2800

94

41

ND

150

99

103

108

%Recovery

MSD MSD

Qualifier

Result Qualifier

-					•	-	
Benzene	ND		0.50	ug/L		06/05/17 19:51	1
Ethylbenzene	ND		0.50	ug/L		06/05/17 19:51	1
m,p-Xylene	ND		1.0	ug/L		06/05/17 19:51	1
o-Xylene	ND		0.50	ug/L		06/05/17 19:51	1
Toluene	ND		0.50	ug/L		06/05/17 19:51	1
Xylenes, Total	ND		1.0	ug/L		06/05/17 19:51	1
	MB	МВ					
Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		80 - 120			06/05/17 19:51	1
Dibromofluoromethane (Surr)	99		76 - 132			06/05/17 19:51	1

80 - 128

Lab Sample ID: LCS 440-410111/5 Matrix: Water Analysis Batch: 410111

Spike	LCS	LCS				%Rec.	
Added	Result	Qualifier	Unit	D	%Rec	Limits	
25.0	25.5		ug/L		102	68 - 130	
25.0	26.0		ug/L		104	70 - 130	
25.0	26.7		ug/L		107	70 - 130	
25.0	26.6		ug/L		106	70 - 130	
25.0	26.6		ug/L		107	70 - 130	
	Added 25.0 25.0 25.0 25.0 25.0	Added Result 25.0 25.5 25.0 26.0 25.0 26.7 25.0 26.6	Added Result Qualifier 25.0 25.5 25.0 25.0 26.0 26.0 25.0 26.7 25.0 25.0 26.6 26.6	Added Result Qualifier Unit 25.0 25.5 ug/L ug/L 25.0 26.0 ug/L ug/L 25.0 26.7 ug/L ug/L 25.0 26.6 ug/L ug/L	Added Result Qualifier Unit D 25.0 25.5 ug/L ug/L 25.0 26.0 ug/L ug/L 25.0 26.7 ug/L ug/L 25.0 26.6 ug/L ug/L	Added Result Qualifier Unit D %Rec 25.0 25.5 ug/L 102 25.0 26.0 ug/L 104 25.0 26.7 ug/L 107 25.0 26.6 ug/L 106	Added Result Qualifier Unit D %Rec Limits 25.0 25.5 ug/L 102 68 - 130 25.0 26.0 ug/L 104 70 - 130 25.0 26.7 ug/L 107 70 - 130 25.0 26.6 ug/L 106 70 - 130

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	93		80 - 120
Dibromofluoromethane (Surr)	96		76 - 132
Toluene-d8 (Surr)	104		80 - 128

RL

0.50

0.50

1.0

0.50

0.50

Limits

80 - 120

76 - 132

80 - 128

1.0

MDL Unit

ug/L

ug/L

ug/L

ug/L

ug/L

ug/L

D

Prepared

Lab Sample ID: MB 440-410226/4

Matrix: Water

Analyte

Benzene

Ethylbenzene

Xylenes, Total

Surrogate

Toluene-d8 (Surr)

m,p-Xylene

o-Xylene

Toluene

Analysis Batch: 410226

4-Bromofluorobenzene (Surr)

Dibromofluoromethane (Surr)

4-Bromofluorobenzene (Surr)

Dibromofluoromethane (Surr)

Toluene-d8 (Surr)

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

MB MB

ND

ND

ND

ND

ND

ND

97

116

107

%Recovery

MB MB

Qualifier

Result Qualifier

Client Sample ID: Method Blank

Analyzed

06/06/17 08:21

06/06/17 08:21

06/06/17 08:21

06/06/17 08:21

06/06/17 08:21

06/06/17 08:21

5

Prep Type: Total/NA Dil Fac 1 1 1 1 8 1 1

Prepared Analyzed Dil Fac 06/06/17 08:21 1 06/06/17 08:21 1 06/06/17 08:21 1

Prep Type: Total/NA

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 440-410226/5 **Matrix: Water** Analysis Batch: 410226

· · · · · · · · · · · · · · · · · · ·		Spike	LCS	LCS				%Rec.	
Analyte		Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene		25.0	26.3		ug/L		105	68 - 130	
Ethylbenzene		25.0	26.2		ug/L		105	70 ₋ 130	
m,p-Xylene		25.0	27.6		ug/L		110	70 - 130	
o-Xylene		25.0	28.5		ug/L		114	70 - 130	
Toluene		25.0	25.6		ug/L		102	70 - 130	
	LCS LCS								
Surrogate	%Recovery Qualifier	Limits							

80 - 120

76 - 132

80 - 128

Method: 8260B/CA	LUFTMS	- Volatile Organ	ic Compounds b	y GC/MS

91

110

102

Lab Sample ID: MB 440-40995 Matrix: Water Analysis Batch: 409955	55/4					(Client Sam	ple ID: Method Prep Type: To	
	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Volatile Fuel Hydrocarbons (C4-C12)	ND		50		ug/L			06/05/17 08:24	1
	MB	MB							
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	102		76 - 132			-		06/05/17 08:24	1
4-Bromofluorobenzene (Surr)	101		80 - 120					06/05/17 08:24	1
Toluene-d8 (Surr)	111		80 - 128					06/05/17 08:24	1

3 4 5

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

Lab Sample ID: LCS 440-4 Matrix: Water	409955/6							CI	ient S	San	nple ID	: Lab Co Prep Ty		
Analysis Batch: 409955													-	
•				Spike	I	LCS	LCS					%Rec.		
Analyte				Added	Re	sult	Qualifier	Unit		D	%Rec	Limits		
Volatile Fuel Hydrocarbons (C4-C12)	·			500		467		ug/L		_	93	55 - 130		
	LCS	LCS												
Surrogate	%Recovery		ier	Limits										
Dibromofluoromethane (Surr)	103			76 - 132										
4-Bromofluorobenzene (Surr)	98			80 - 120										
Toluene-d8 (Surr)	111			80 - 128										
Lab Sample ID: 440-18549	99-1 MS										СІ	ient Sam	ple ID:	MW-
Matrix: Water												Prep Ty	pe: To	tal/N
Analysis Batch: 409955	. .	•		•								o/ -		
	Sample			Spike	_	MS				-	~-	%Rec.		
Analyte	Result	Qualifi	er	Added			Qualifier	Unit		D	%Rec	Limits		
Volatile Fuel Hydrocarbons (C4-C12)	11000			34500	42	2900		ug/L			91	50 - 145		
		MS												
Surrogate	%Recovery	Qualifi	er	Limits										
Dibromofluoromethane (Surr)	108			76 - 132										
1 Due we offer a we have a wear (Or wear)	00													
	99			80 - 120										
Toluene-d8 (Surr)	104			80 - 120 80 - 128										
Toluene-d8 (Surr) Lab Sample ID: 440-18549 Matrix: Water	104										CI	ient Sam Prep Ty		
Toluene-d8 (Surr) Lab Sample ID: 440-18549 Matrix: Water	104	Sample	e		Ν	NSD	MSD				CI			tal/N
Toluene-d8 (Surr) Lab Sample ID: 440-18549 Matrix: Water Analysis Batch: 409955	104 9 9-1 MSD			80 - 128			MSD Qualifier	Unit		D	CI %Rec	Prep Ty		tal/N
Toluene-d8 (Surr) Lab Sample ID: 440-18549 Matrix: Water Analysis Batch: 409955 Analyte Volatile Fuel Hydrocarbons	104 99-1 MSD Sample			80 - 128 Spike	Re			Unit ug/L		D		Prep Ty %Rec.	pe: To	tal/N RP Lim
Toluene-d8 (Surr) Lab Sample ID: 440-18549 Matrix: Water Analysis Batch: 409955 Analyte Volatile Fuel Hydrocarbons	104 99-1 MSD Sample Result	Qualifi		Spike Added	Re	sult				D	%Rec	Prep Ty %Rec. Limits	pe: To RPD	tal/N RP Lim
Toluene-d8 (Surr) Lab Sample ID: 440-18549 Matrix: Water Analysis Batch: 409955 Analyte Volatile Fuel Hydrocarbons (C4-C12)	104 99-1 MSD Sample Result 11000	Qualifi MSD	er	Spike Added	Re	sult				D	%Rec	Prep Ty %Rec. Limits	pe: To RPD	tal/N RP Lim
Toluene-d8 (Surr) Lab Sample ID: 440-18549 Matrix: Water Analysis Batch: 409955 Analyte Volatile Fuel Hydrocarbons (C4-C12) Surrogate	104 99-1 MSD Sample Result 11000 MSD	Qualifi MSD	er	Spike Added 34500	Re	sult				D	%Rec	Prep Ty %Rec. Limits	pe: To RPD	tal/N RP Lim
Toluene-d8 (Surr) Lab Sample ID: 440-18549 Matrix: Water Analysis Batch: 409955 Analyte Volatile Fuel Hydrocarbons (C4-C12) Surrogate Dibromofluoromethane (Surr)	104 99-1 MSD Sample Result 11000 MSD %Recovery	Qualifi MSD	er	Spike Added 34500	Re	sult				<u>D</u>	%Rec	Prep Ty %Rec. Limits	pe: To RPD	tal/N RP Lim
Toluene-d8 (Surr) Lab Sample ID: 440-18549 Matrix: Water Analysis Batch: 409955 Analyte Volatile Fuel Hydrocarbons (C4-C12) Surrogate Dibromofluoromethane (Surr) 4-Bromofluorobenzene (Surr)	104 99-1 MSD Sample Result 11000 <i>MSD</i> %Recovery 103	Qualifi MSD	er	Spike Added 34500 Limits 76 - 132	Re	sult				D	%Rec	Prep Ty %Rec. Limits	pe: To RPD	tal/N/ RP Lim
Toluene-d8 (Surr) Lab Sample ID: 440-18549 Matrix: Water Analysis Batch: 409955 Analyte Volatile Fuel Hydrocarbons (C4-C12) Surrogate Dibromofluoromethane (Surr) 4-Bromofluorobenzene (Surr) Toluene-d8 (Surr) Lab Sample ID: MB 440-4	104 99-1 MSD Sample Result 11000 MSD %Recovery 103 99 108	Qualifi MSD	er	Spike Added 34500 Limits 76 - 132 80 - 120	Re	sult					%Rec 76	Prep Ty %Rec. Limits 50 - 145	RPD 13	Blan
Toluene-d8 (Surr) Lab Sample ID: 440-18549 Matrix: Water Analysis Batch: 409955 Analyte Volatile Fuel Hydrocarbons (C4-C12) Surrogate Dibromofluoromethane (Surr) 4-Bromofluorobenzene (Surr) Toluene-d8 (Surr) Lab Sample ID: MB 440-4 Matrix: Water	104 99-1 MSD Sample Result 11000 MSD %Recovery 103 99 108	Qualifi MSD	er	Spike Added 34500 Limits 76 - 132 80 - 120	Re	sult					%Rec 76	Prep Ty %Rec. Limits 50 - 145	RPD 13	RP Lim 2 Blan
Toluene-d8 (Surr) Lab Sample ID: 440-18549 Matrix: Water Analysis Batch: 409955 Analyte Volatile Fuel Hydrocarbons (C4-C12) Surrogate Dibromofluoromethane (Surr) 4-Bromofluorobenzene (Surr) Toluene-d8 (Surr) Lab Sample ID: MB 440-4 Matrix: Water	104 99-1 MSD Sample Result 11000 MSD %Recovery 103 99 108	Qualifi MSD Qualifi	er	Spike Added 34500 Limits 76 - 132 80 - 120	Re	sult					%Rec 76	Prep Ty %Rec. Limits 50 - 145	RPD 13	Blan
Toluene-d8 (Surr) Lab Sample ID: 440-18549 Matrix: Water Analysis Batch: 409955 Analyte Volatile Fuel Hydrocarbons (C4-C12) Surrogate Dibromofluoromethane (Surr) 4-Bromofluorobenzene (Surr) Toluene-d8 (Surr) Lab Sample ID: MB 440-4 Matrix: Water Analysis Batch: 410110	104 99-1 MSD Sample Result 11000 <i>MSD</i> <i>%Recovery</i> 103 99 108 10110/4	Qualifi MSD	er	Spike Added 34500 Limits 76 - 132 80 - 120	Re	esult 7600		ug/L	C	_ >lie	%Rec 76	Prep Ty %Rec. Limits 50 - 145	RPD 13	Blan
Toluene-d8 (Surr) Lab Sample ID: 440-18549 Matrix: Water Analysis Batch: 409955 Analyte Volatile Fuel Hydrocarbons (C4-C12) Surrogate Dibromofluoromethane (Surr) 4-Bromofluorobenzene (Surr) Toluene-d8 (Surr) Lab Sample ID: MB 440-4 Matrix: Water Analysis Batch: 410110 Analyte	104 99-1 MSD Sample Result 11000 <i>MSD</i> %Recovery 103 99 108 10110/4 Re	Qualifi MSD Qualifi MB M	er	Spike Added 34500 Limits 76 - 132 80 - 120	Re 37	esult 7600	Qualifier	ug/L		_ >lie	%Rec 76	Prep Ty %Rec. Limits 50 - 145	RPD 13 lethod pe: To zed	Blan Dil Fa
Toluene-d8 (Surr) Lab Sample ID: 440-18549 Matrix: Water Analysis Batch: 409955 Analyte Volatile Fuel Hydrocarbons (C4-C12) Surrogate Dibromofluoromethane (Surr) 4-Bromofluorobenzene (Surr) Toluene-d8 (Surr) Lab Sample ID: MB 440-4 Matrix: Water Analysis Batch: 410110 Analyte	104 99-1 MSD Sample Result 11000 <i>MSD</i> %Recovery 103 99 108 10110/4 Re	MSD Qualifi Qualifi MB M sult Q ND	er er B ualifier	Spike Added 34500 Limits 76 - 132 80 - 120	Re 37	esult 7600	Qualifier	ug/L		_ >lie	%Rec 76	Prep Ty %Rec. Limits 50 - 145	RPD 13 lethod pe: To zed	Blan Dil Fa
Toluene-d8 (Surr) Lab Sample ID: 440-18549 Matrix: Water Analysis Batch: 409955 Analyte Volatile Fuel Hydrocarbons (C4-C12) Surrogate Dibromofluoromethane (Surr) 4-Bromofluorobenzene (Surr) Toluene-d8 (Surr) Lab Sample ID: MB 440-4 Matrix: Water Analysis Batch: 410110 Analyte Volatile Fuel Hydrocarbons (C4-C	104 99-1 MSD Sample Result 11000 <i>MSD</i> %Recovery 103 99 108 10110/4 Re 12)	MSD Qualifi MSD Qualifi MB M sult Q MB M	er er B ualifier	Spike Added 34500 <i>Limits</i> 76 - 132 80 - 128	Re 37 87	esult 7600	Qualifier	ug/L		- Clie Pr	%Rec 76	Prep Ty %Rec. Limits 50 - 145	RPD 13 lethod pe: To zed 19:51	Blan Dil Fa
4-Bromofluorobenzene (Surr) Toluene-d8 (Surr) Lab Sample ID: 440-18549 Matrix: Water Analysis Batch: 409955 Analyte Volatile Fuel Hydrocarbons (C4-C12) Surrogate Dibromofluoromethane (Surr) 4-Bromofluorobenzene (Surr) Toluene-d8 (Surr) Lab Sample ID: MB 440-4 Matrix: Water Analysis Batch: 410110 Analyte Volatile Fuel Hydrocarbons (C4-C Surrogate Dibromofluoromethane (Surr)	104 99-1 MSD Sample Result 11000 <i>MSD</i> %Recovery 103 99 108 10110/4 Re	MSD Qualifi MSD Qualifi MB M sult Q MB M	er er B ualifier	Spike Added 34500 <i>Limits</i> 76 - 132 80 - 128 <i>Limits</i>	Re 37 87	esult 7600	Qualifier	ug/L		- Clie Pr	%Rec 76	Prep Ty %Rec. Limits 50 - 145	RPD 13 lethod pe: To zed 19:51 zzed	Blan Dil Fa
Toluene-d8 (Surr) Lab Sample ID: 440-18549 Matrix: Water Analysis Batch: 409955 Analyte Volatile Fuel Hydrocarbons (C4-C12) Surrogate Dibromofluoromethane (Surr) 4-Bromofluorobenzene (Surr) Toluene-d8 (Surr) Lab Sample ID: MB 440-4 Matrix: Water Analysis Batch: 410110 Analyte Volatile Fuel Hydrocarbons (C4-C	104 99-1 MSD Sample Result 11000 <i>MSD</i> %Recovery 103 99 108 10110/4 Re 12)	MSD Qualifi MSD Qualifi Qualifi MB M MB M Wery Q	er er B ualifier	Spike Added 34500	Re 37 50 <u>ts</u> 32	esult 7600	Qualifier	ug/L		- Clie Pr	%Rec 76	Prep Ty %Rec. Limits 50 - 145	RPD 13 lethod pe: To zed '19:51 'zed '19:51	Blan

Toluene-d8 (Surr)

105

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

Lab Sample ID: LCS 440-41 Matrix: Water	0110/6								Cli	ent S	an	nple ID:	: Lab Control S Prep Type: Te	
Analysis Batch: 410110														
				Spike		LCS	LCS						%Rec.	
Analyte				Added		Result	Qualit	fier	Unit		D	%Rec	Limits	
Volatile Fuel Hydrocarbons (C4-C12)				500		461			ug/L			92	55 - 130	
	LCS	LCS	5											
Surrogate	%Recovery	Qua	lifier	Limits										
Dibromofluoromethane (Surr)	96			76 - 132										
4-Bromofluorobenzene (Surr)	92			80 - 120										
Toluene-d8 (Surr)	107			80 - 128										
Lab Sample ID: MB 440-410	227/4									С	lie	nt Sam	ple ID: Method	d Blar
Matrix: Water													Prep Type: Te	
Analysis Batch: 410227														
		MB	MB											
Analyte	Re	sult	Qualifier		RL		MDL U	Jnit		D	Pr	epared	Analyzed	Dil F
Volatile Fuel Hydrocarbons (C4-C12	:)	ND			50		U	ıg/L					06/06/17 08:21	
		ΜВ	МВ											
Surrogate	%Reco		Qualifier	Lim	ite						P,	repared	Analyzed	Dil F
Dibromofluoromethane (Surr)		116	quanner									epureu	- <u>06/06/17 08:21</u>	
4-Bromofluorobenzene (Surr)		97		, 0 - 80 -									06/06/17 08:21	
Toluene-d8 (Surr)		107		- 00 - 80									06/06/17 08:21	
		107		- 00	120								00/00/11 00.21	
Lab Sample ID: LCS 440-41	0227/6								Cli	ent S	an	nple ID	: Lab Control	
Matrix: Water													Prep Type: T	otal/N
Analysis Batch: 410227														
				Spike			LCS						%Rec.	
Analyte				Added		Result	Qualit	fier	Unit		D	%Rec	Limits	
Volatile Fuel Hydrocarbons				500		486			ug/L			97	55 - 130	
(C4-C12)														
	LCS													
Surrogate	%Recovery	Qua	lifier	Limits										
Dibromofluoromethane (Surr)	110			76 - 132										
4-Bromofluorobenzene (Surr)	96			80 - 120										

80 - 128

QC Association Summary

Client: AECOM Technical Services Inc. Project/Site: Shell - 2703 Martin Luther King Jr. Way,

GC/MS VOA

	1.1.1	Distant.	400055
Anar	SIS	Batch:	409955

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-185499-1	MW-4	Total/NA	Water	8260B/CA_LUFT	
				MS	
440-185499-2	MW-5	Total/NA	Water	8260B/CA_LUFT	
440 405 400 0	NNA(40	T-4-1/010	\N/stan	MS	
440-185499-6	MW-10	Total/NA	Water	8260B/CA_LUFT	
440-185499-7	MW-11	Total/NA	Water	MS 8260B/CALLIET	
++0-100+00-7		Totainna	Water	8260B/CA_LUFT MS	
440-185499-8	MW-13	Total/NA	Water	8260B/CA LUFT	
				MS	
440-185499-10	V-1	Total/NA	Water	8260B/CA_LUFT	
				MS –	
MB 440-409955/4	Method Blank	Total/NA	Water	8260B/CA_LUFT	
				MS	
LCS 440-409955/6	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT	
440 405400 4 140		T - (- 1/0 A		MS	
440-185499-1 MS	MW-4	Total/NA	Water	8260B/CA_LUFT	
440-185499-1 MSD	MW-4	Total/NA	Water	MS	
440-100499-1 MOD		Total/NA	vvalel	8260B/CA_LUFT MS	

Analysis Batch: 409956

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-185499-1	MW-4	Total/NA	Water	8260B	
440-185499-2	MW-5	Total/NA	Water	8260B	
440-185499-6	MW-10	Total/NA	Water	8260B	
440-185499-7	MW-11	Total/NA	Water	8260B	
440-185499-8	MW-13	Total/NA	Water	8260B	
440-185499-10	V-1	Total/NA	Water	8260B	
MB 440-409956/4	Method Blank	Total/NA	Water	8260B	
LCS 440-409956/5	Lab Control Sample	Total/NA	Water	8260B	
440-185499-1 MS	MW-4	Total/NA	Water	8260B	
440-185499-1 MSD	MW-4	Total/NA	Water	8260B	

Analysis Batch: 410110

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method Prep Bat
440-185499-3	MW-6	Total/NA	Water	8260B/CA_LUFT
				MS
440-185499-4	MW-7	Total/NA	Water	8260B/CA_LUFT
				MS
440-185499-5	MW-8	Total/NA	Water	8260B/CA_LUFT
				MS
440-185499-9	MW-14	Total/NA	Water	8260B/CA_LUFT
				MS
MB 440-410110/4	Method Blank	Total/NA	Water	8260B/CA_LUFT
				MS
LCS 440-410110/6	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT
_				MS

Analysis Batch: 410111

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
440-185499-3	MW-6	Total/NA	Water	8260B	
440-185499-4	MW-7	Total/NA	Water	8260B	
440-185499-5	MW-8	Total/NA	Water	8260B	
440-185499-9	MW-14	Total/NA	Water	8260B	

QC Association Summary

Client: AECOM Technical Services Inc. Project/Site: Shell - 2703 Martin Luther King Jr. Way,

GC/MS VOA (Continued)

Analysis Batch: 410111 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 440-410111/4	Method Blank	Total/NA	Water	8260B	
LCS 440-410111/5	Lab Control Sample	Total/NA	Water	8260B	
Analysis Batch: 410					/
· ·	0226 Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
Lab Sample ID		Prep Type Total/NA	Matrix Water	Method 8260B	Prep Batch
nalysis Batch: 410 Lab Sample ID 440-185499-11 MB 440-410226/4	Client Sample ID				Prep Batch

Analysis Batch: 410227

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch	
440-185499-11	V-2	Total/NA	Water	8260B/CA_LUFT MS		
MB 440-410227/4	Method Blank	Total/NA	Water	8260B/CA_LUFT		
LCS 440-410227/6	Lab Control Sample	Total/NA	Water	MS 8260B/CA_LUFT		
				MS		

Definitions/Glossary

Client: AECOM Technical Services Inc. Project/Site: Shell - 2703 Martin Luther King Jr. Way,

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Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.	
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis	
%R	Percent Recovery	3
CFL	Contains Free Liquid	
CNF	Contains No Free Liquid	
DER	Duplicate Error Ratio (normalized absolute difference)	
Dil Fac	Dilution Factor	1
DL	Detection Limit (DoD/DOE)	
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample	
DLC	Decision Level Concentration (Radiochemistry)	
EDL	Estimated Detection Limit (Dioxin)	
LOD	Limit of Detection (DoD/DOE)	
LOQ	Limit of Quantitation (DoD/DOE)	
MDA	Minimum Detectable Activity (Radiochemistry)	
MDC	Minimum Detectable Concentration (Radiochemistry)	
MDL	Method Detection Limit	
ML	Minimum Level (Dioxin)	
NC	Not Calculated	
ND	Not Detected at the reporting limit (or MDL or EDL if shown)	
PQL	Practical Quantitation Limit	
QC	Quality Control	
RER	Relative Error Ratio (Radiochemistry)	
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)	

Accreditation/Certification Summary

Client: AECOM Technical Services Inc. Project/Site: Shell - 2703 Martin Luther King Jr. Way,

TestAmerica Job ID: 440-185499-1

Laboratory	/: '	TestAmeric	ca I	rvine
Eastrator				

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

Authority	Program	EPA Region	Identification Number	Expiration Date	
Alaska	State Program	10	CA01531	06-30-17 *	
Arizona	State Program	9	AZ0671	10-14-17	
California	LA Cty Sanitation Districts	9	10256	06-30-18	
California	State Program	9	CA ELAP 2706	06-30-18	
Guam	State Program	9	Cert. No. 17-003R	01-23-18	
Hawaii	State Program	9	N/A	01-29-18	
Kansas	NELAP Secondary AB	7	E-10420	07-31-17	
Nevada	State Program	9	CA015312017-1	07-31-17	
New Mexico	State Program	6	N/A	01-29-17 *	
Northern Mariana Islands	State Program	9	MP0002	01-29-17 *	
Oregon	NELAP	10	4028	01-29-18	
USDA	Federal		P330-15-00184	07-08-18	
Washington	State Program	10	C900	09-03-17	

Laboratory: TestAmerica Pleasanton All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.					11
All accreditations/certificat	ions held by this laboratory are listed. No Program	t all accreditations/certific	ations are applicable to this	s report.	12
California	State Program	9	2496	01-31-18	13

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

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680 Rogers Ave., San Jose, CA, 95112 ROJECT CONTACT (Hardcopy or PDF Report to)				Helen Hi	ld/Josh Fox,AECOM,	Dakland, CA 510-8	93-3600	helen.hild@aecom.com joshua.fox@aecom.com	USF04645
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ALEPHONE FAX 310-885-4455 Ext. 103 310-637-5802	Bit To Contact E-MAIL	shane.olton@aecom	1.0011	G	REG R.,	DAUID	V.		
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6/7/2017

Login Number: 185499 List Number: 1 Creator: Skinner, Alma D

Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>True</td> <td></td>	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	Not Present
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	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
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: 440-185499-1

List Source: TestAmerica Irvine