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June 6, 2018

Mr. Matt Mueller
Maryland Department of the Environment
1800 Washington Blvd.
Baltimore, Maryland 21230

AECOM Project No. 60338398

Subject: Rebound Assessment Request
7-Eleven Store #32785
125 Hanover Pike
Hampstead, Maryland
MDE Case # 2006-0282-CL

Dear Mr. Mueller,

AECOM Technical Services, Inc. (AECOM), on behalf of 7-Eleven, Inc. (7-Eleven), is requesting permission to deactivate the groundwater remediation system at the above reference site to perform a rebound assessment. The ten on-site monitoring wells (**Figure 1**) have all displayed stable and/or decreasing hydrocarbon trends. As proposed in the site Corrective Action Plan dated December 21, 2012 and approved by Maryland Department of the Environment (MDE) on February 20, 2013, the dissolved-phase hydrocarbon remedial goal is met when the recovery from the groundwater treatment system has achieved asymptotic levels and dissolved-phase hydrocarbon trends are stable and/or decreasing in the monitoring wells.

Decreasing methyl-t-butyl ether (MTBE) trends are observed in pumping monitoring wells MW-8 and MW-9 as shown in the graphs provided as **Attachment A**. Furthermore, MTBE concentrations in MW-8 and MW-9 were below the MDE standard of 20 micrograms-per-liter (ug/l) during the sampling event on May 17, 2018 (treatment system and pumping wells). Minimal concentrations are observed in monitoring wells MW-5 and MW-6, and MTBE continues to remain below the detection limit (BDL) in monitoring wells MW-1, MW-2, MW-3, MW-4, MW-7 and MW-10. MDE standard of 20 micrograms-per-liter (ug/l) during the pumping wells sampling event on May 17, 2018. The laboratory analytical results are presented in **Table 1** and the laboratory analytical reports (Q2-2018) are provided as **Attachment B**.

AECOM, on behalf of 7-Eleven is requesting permission to turn the remediation system off by July 2, 2018. Upon approval by MDE, AECOM will shut down the system and commence post remediation monitoring. Post remediation monitoring will include monthly sampling of all ten on-site monitoring wells and the point of entry (POET) system located at 124 Hanover Pike. The ten on-site monitoring wells will be analyzed for full-suite volatile organic compounds (VOCs) using EPA Method 8260 and for total petroleum hydrocarbon (TPH) gasoline range organics (GRO) using EPA Method 8015, and the POET system will be analyzed for full-suite VOCs using EPA Method 524.2. The monthly sampling will continue for a period of three months beginning in July 2018. The treatment system will be reactivated if MTBE concentrations exceed 300 ug/l during the rebound assessment period. If MTBE concentrations are stable and/or decreasing, the recovery system will remain off, and quarterly sampling of the monitoring wells and bimonthly sampling of the POET system will resume. AECOM will request site closure if concentrations remain stable and/or decreasing for four quarters following the rebound assessment.

Please contact either of the undersigned at (301) 289-3900 if you should have any questions or require any additional information.

Sincerely,

John J. Canzeri
Project Manager

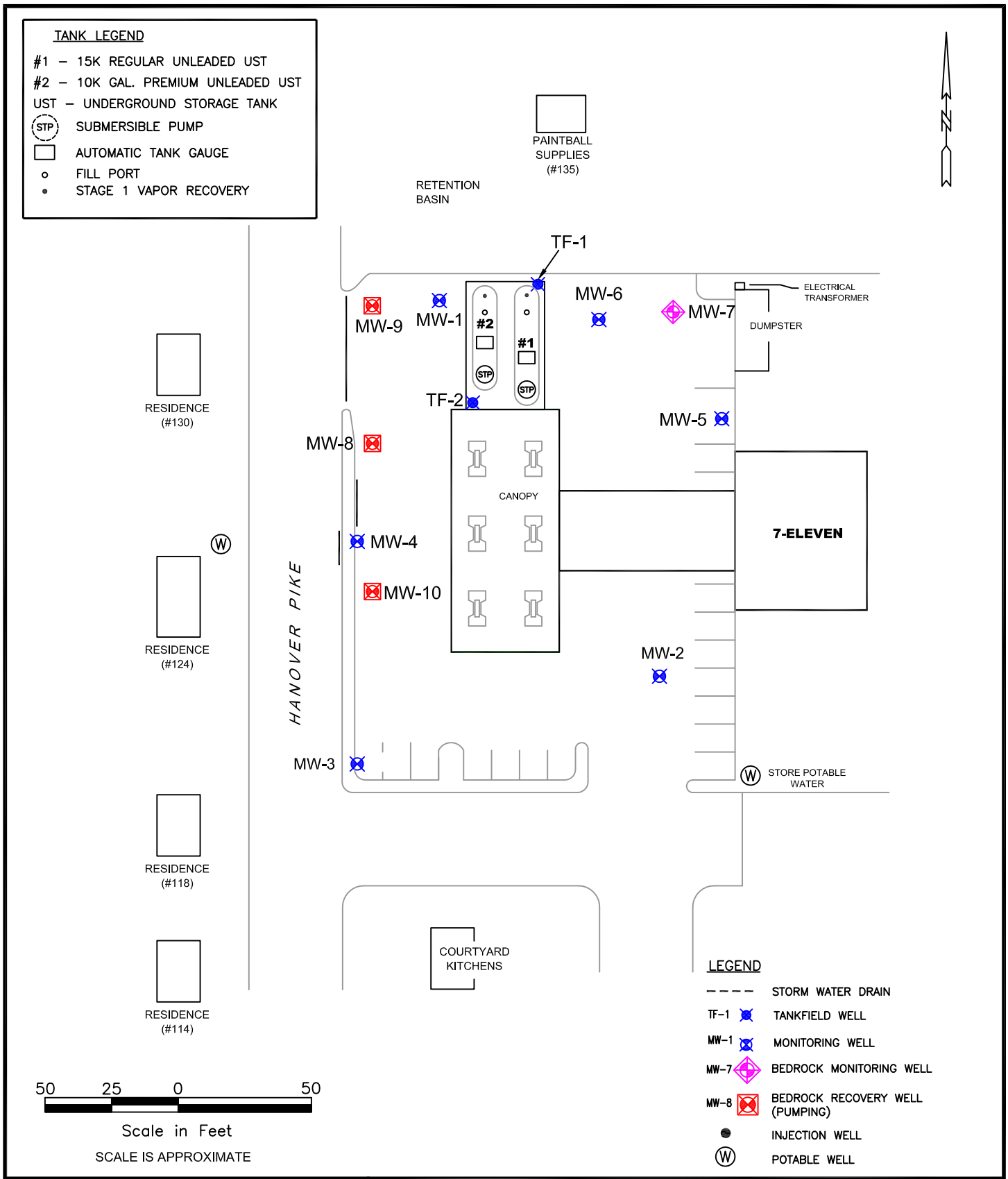
Marie Treiber
Regional Senior Project Manager

cc: 7-Eleven Project File

Attachments:

Figure 1 – Site Map
Table 1 – Groundwater Analytical Results
Attachment A – MTBE Concentration Graphs vs Time
Attachment B – Laboratory Analytical Reports

FIGURE



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SITE MAP

7-ELEVEN STORE NO. 32785
125 HANOVER PIKE
HAMPSTEAD, MD

FIGURE NUMBER: **1**

DRAWN BY:	CHECKED BY:	DATE:	PROJECT NUMBER:	SHEET NUMBER:
M. Emery	J. Canzeri	6/6/18	60338398	1 OF 1

TABLE

Table 1: Groundwater Analytical Results
7-Eleven Store No. 32785
Hampstead, Maryland

Sample ID	Date	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Xylenes (µg/L)	BTEX (µg/L)	MTBE (µg/L)	TBA (µg/L)	TAME (µg/L)	TPH-GRO (µg/L)	TPH-DRO (mg/L)
MW-1	7/25/05	ND@20	ND@20	ND@20	ND@60	ND	**31,000**	28,000	1,300	NA	NA
	1/25/06	ND@1	ND@1	ND@1	ND@3	ND	**22,000**	17,000	E1,000	NA	NA
	7/11/06	ND@1	ND@1	ND@1	ND@3	ND	**E 22,000**	12,000	E 600	NA	NA
	1/9/07	ND@1	ND@1	ND@1	ND@3	ND	ND@1	13,000	ND@1000	NA	NA
	6/14/07	ND@1	ND@1	ND@1	ND@3	ND	**E 6,500**	E 680	140	**450**	ND@0.5
	11/30/07	ND@1	ND@1	ND@1	ND@3	ND	**11,000**	2,900	ND@1000	**720**	ND@0.5
	2/14/08	ND@10	ND@10	ND@10	ND@30	ND	**16,000**	2,900	370	**16,000**	ND@0.5
	5/23/08	ND@200	ND@200	ND@200	ND@600	ND	**23,000**	14,000	ND@2000	**40,000**	ND@0.5
	8/7/08	ND@10	ND@10	ND@10	ND@30	ND	**4,600**	ND@200	ND@100	**1,100**	ND@0.5
	12/3/08	ND@10	ND@10	ND@10	ND@30	ND	**1,200**	ND@200	ND@100	**670**	ND@0.5
	2/12/09	ND@1	ND@1	ND@1	ND@3	ND	**370**	ND@20	ND@10	ND@100	ND@0.5
	5/12/09	ND@1	ND@1	ND@1	ND@3	ND	**530**	ND@20	14	ND@100	ND@0.5
	8/19/09	ND@1	ND@1	ND@1	ND@3	ND	**56**	ND@20	ND@10	ND@100	NA
	11/4/09	ND@1	ND@1	ND@1	ND@3	ND	**190**	ND@20	ND@10	**240**	NA
	2/26/10	ND@1	ND@1	ND@1	ND@3	ND	**54**	ND@20	ND@10	ND@100	NA
	5/13/10	ND@1	ND@1	ND@1	ND@3	ND	**340**	86	ND@10	**310**	NA
	8/17/10	ND@1	ND@1	ND@1	ND@3	ND	6	ND@20	ND@10	ND@100	NA
	11/28/10	ND@1	ND@1	ND@1	ND@3	ND	3	ND@20	ND@10	ND@100	NA
	2/2/11	ND@1	ND@1	ND@1	ND@3	ND	3	ND@20	ND@10	ND@100	NA
	6/28/11	ND@1	ND@1	ND@1	ND@3	ND	**97**	ND@20	ND@10	ND@100	NA
	9/29/11	ND@1	ND@1	ND@1	ND@3	ND	**52**	ND@20	ND@10	ND@100	NA
	12/20/11	ND@1	ND@1	ND@1	ND@3	ND	15	ND@20	ND@10	ND@100	NA
	3/8/12	ND@1	ND@1	ND@1	ND@3	ND	6.8	ND@20	ND@10	ND@100	NA
	6/8/12	ND@1	ND@1	ND@1	ND@3	ND	6.9	ND@20	ND@10	ND@100	NA
	9/19/12	ND@1	ND@1	ND@1	ND@3	ND	1.8	ND@20	ND@10	ND@100	NA
	12/21/12	ND@1	ND@1	ND@1	ND@3	ND	8.2	ND@20	ND@10	ND@100	NA
	3/29/13	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	NA
	6/5/13	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	NA
	9/25/13	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	NA
	12/16/13	ND@1	ND@1	ND@1	ND@3	ND	**26**	ND@20	ND@10	ND@100	NA
	3/11/14	ND@1	ND@1	ND@1	ND@3	ND	14	ND@20	ND@10	ND@100	NA
	6/9/14	ND@1	ND@1	ND@1	ND@3	ND	1	ND@20	ND@10	ND@100	NA
	9/16/14	ND@1	ND@1	ND@1	ND@3	ND	11	ND@20	ND@10	ND@100	NA
	12/3/14	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	NA
	3/16/15	ND@1	ND@1	ND@1	ND@2	ND	2.3	ND@10	ND@1	ND@100	NA
	6/22/15	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@10	ND@1	ND@100	NA
	7/22/15	ND@1	ND@1	ND@1	ND@3	ND	1.8	ND@10	ND@1	ND@100	NA
	9/23/15	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@10	ND@1	ND@100	NA
	12/16/15	ND@1	ND@1	ND@1	ND@3	ND	6.6	ND@10	ND@1	ND@100	NA
	3/4/16	ND@1	ND@1	ND@1	ND@3	ND	1.7	ND@10	ND@1	ND@100	NA
	6/2/16	ND@1	ND@1	ND@1	ND@3	ND	2.5	ND@10	ND@1	ND@100	NA
	9/16/16	ND@1	ND@1	ND@1	ND@3	ND	5.1	ND@10	ND@1	ND@100	NA
	12/16/16	ND@1	ND@1	ND@1	ND@3	ND	2.2	ND@10	ND@1	ND@100	NA
	3/16/17	ND@1	ND@1	ND@1	ND@3	ND	6.0	ND@10	ND@1	ND@100	NA
	6/5/17	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@10	ND@1	ND@100	NA
	8/24/17	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@10	ND@1	ND@100	NA
	9/20/17	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@10	ND@1	ND@100	NA
	12/8/17	ND@1	3.39	ND@1	ND@3	3.39	ND@1	ND@10	ND@1	ND@100	NA
	3/26/18	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@10	ND@1	ND@100	NA

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7-Eleven Store No. 32785
Hampstead, Maryland

Sample ID	Date	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Xylenes (µg/L)	BTEX (µg/L)	MTBE (µg/L)	TBA (µg/L)	TAME (µg/L)	TPH-GRO (µg/L)	TPH-DRO (mg/L)
MW-2	7/25/05	ND@1	ND@1	ND@1	ND@3	ND	1	ND@25	ND@25	NA	NA
	1/25/06	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@25	ND@25	NA	NA
	7/11/06	ND@1	ND@1	ND@1	ND@3	ND	ND@1	30	ND@25	NA	NA
	1/9/07	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@10	ND@10	NA	NA
	6/14/07	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@10	ND@10	ND@100	ND@0.5
	11/30/07	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@10	ND@10	ND@100	ND@0.5
	2/14/08	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@10	ND@10	ND@100	ND@0.5
	5/23/08	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@10	ND@10	ND@100	ND@0.5
	8/7/08	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	ND@0.5
	12/3/08	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	ND@0.5
	2/12/09	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	ND@0.5
	5/12/09	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	ND@0.5
	8/19/09	ND@1	ND@1	ND@1	ND@3	ND	14	ND@20	ND@10	ND@100	NA
	11/4/09	ND@1	ND@1	ND@1	ND@3	ND	7	ND@20	ND@10	ND@100	NA
	2/26/10	ND@1	ND@1	ND@1	ND@3	ND	8	ND@20	ND@10	ND@100	NA
	5/13/10	ND@1	ND@1	ND@1	ND@3	ND	**31**	ND@20	ND@10	ND@100	NA
	8/17/10	ND@1	ND@1	ND@1	ND@3	ND	**53**	ND@20	ND@10	ND@100	NA
	11/28/10	ND@1	ND@1	ND@1	ND@3	ND	**35**	ND@20	ND@10	ND@100	NA
	2/2/11	ND@1	ND@1	ND@1	ND@3	ND	**59**	ND@20	ND@10	ND@100	NA
	6/28/11	ND@1	ND@1	ND@1	ND@3	ND	**71**	ND@20	ND@10	ND@100	NA
	9/29/11	ND@1	ND@1	ND@1	ND@3	ND	**41**	ND@20	ND@10	ND@100	NA
	12/20/11	ND@1	ND@1	ND@1	ND@3	ND	**29**	ND@20	ND@10	ND@100	NA
	3/8/12	ND@1	ND@1	ND@1	ND@3	ND	**28**	ND@20	ND@10	ND@100	NA
	6/8/12	ND@1	ND@1	ND@1	ND@3	ND	**33**	ND@20	ND@10	ND@100	NA
	9/19/12	ND@1	ND@1	ND@1	ND@3	ND	**50**	ND@20	ND@10	ND@100	NA
	12/21/12	ND@1	ND@1	ND@1	ND@3	ND	**27**	ND@20	ND@10	ND@100	NA
	3/29/13	ND@1	ND@1	ND@1	ND@3	ND	13	ND@20	ND@10	ND@100	NA
	6/5/13	ND@1	ND@1	ND@1	ND@3	ND	**29**	ND@20	ND@10	ND@100	NA
	9/25/13	ND@1	ND@1	ND@1	ND@3	ND	**31**	ND@20	ND@10	ND@100	NA
	12/16/13	ND@1	ND@1	ND@1	ND@3	ND	**31**	ND@20	ND@10	ND@100	NA
	3/11/14	ND@1	ND@1	ND@1	ND@3	ND	**23**	ND@20	ND@10	ND@100	NA
	6/9/14	ND@1	ND@1	ND@1	ND@3	ND	11	ND@20	ND@10	ND@100	NA
	9/16/14	ND@1	ND@1	ND@1	ND@3	ND	5	ND@20	ND@10	ND@100	NA
	12/3/14	ND@1	ND@1	ND@1	ND@3	ND	7.8	ND@20	ND@10	ND@100	NA
	3/16/14	ND@1	ND@1	ND@1	ND@2	ND	4.9	ND@10	ND@1	ND@100	NA
	6/22/15	ND@1	ND@1	ND@1	ND@3	ND	5.2	ND@10	ND@1	ND@100	NA
	7/22/15	ND@1	ND@1	ND@1	ND@3	ND	5.5	ND@10	ND@1	ND@100	NA
	9/23/15	ND@1	ND@1	ND@1	ND@3	ND	2.4	ND@10	ND@1	ND@100	NA
	12/16/15	ND@1	ND@1	ND@1	ND@3	ND	4.3	ND@10	ND@1	ND@100	NA
	3/4/16	ND@1	ND@1	ND@1	ND@3	ND	3.8	ND@10	ND@1	ND@100	NA
	6/2/16	ND@1	ND@1	ND@1	ND@3	ND	1.8	ND@10	ND@1	ND@100	NA
	9/16/16	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@10	ND@1	ND@100	NA
	12/16/16	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@10	ND@1	ND@100	NA
	3/16/17	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@10	ND@1	ND@100	NA
	6/5/17	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@10	ND@1	ND@100	NA
	8/24/17	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@10	ND@1	ND@100	NA
	9/20/17	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@10	ND@1	ND@100	NA
	12/8/17	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@10	ND@1	ND@100	NA
	3/26/18	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@10	ND@1	ND@100	NA

Table 1: Groundwater Analytical Results
7-Eleven Store No. 32785
Hampstead, Maryland

Sample ID	Date	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Xylenes (µg/L)	BTEX (µg/L)	MTBE (µg/L)	TBA (µg/L)	TAME (µg/L)	TPH-GRO (µg/L)	TPH-DRO (mg/L)
MW-3	7/25/05	ND@1	ND@1	ND@1	ND@3	ND	**290**	180	ND@25	NA	NA
	1/25/06	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@25	ND@25	NA	NA
	7/11/06	ND@1	ND@1	ND@1	ND@3	ND	**390**	140	ND@25	NA	NA
	1/9/07	ND@1	ND@1	ND@1	ND@3	ND	4	ND@10	ND@10	NA	NA
	6/14/07	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@10	ND@10	ND@100	ND@0.5
	11/30/07	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@10	ND@10	ND@100	ND@0.5
	2/14/08	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@10	ND@10	ND@100	ND@0.5
	5/23/08	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@10	ND@10	ND@100	ND@0.5
	8/7/08	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	ND@0.5
	12/3/08	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	ND@0.5
	2/12/09	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	ND@0.5
	5/12/09	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	ND@0.5
	8/19/09	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	NA
	11/4/09	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	NA
	2/26/10	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	5/13/10	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	NA
	8/17/10	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	NA
	11/28/10	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	NA
	2/2/11	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	6/28/11	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	NA
	9/29/11	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	NA
	12/20/11	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	NA
	3/8/12	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	NA
	6/8/12	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	NA
	9/19/12	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	NA
	12/21/12	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	NA
	3/29/13	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	NA
	6/5/13	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	NA
	9/25/13	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	NA
	12/16/13	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	NA
	3/11/14	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	NA
	6/9/14	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	NA
	9/16/14	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	NA
	12/3/14	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	NA
	3/16/15	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@10	ND@1	ND@100	NA
	6/22/15	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@10	ND@1	ND@100	NA
	7/22/15	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@10	ND@1	ND@100	NA
	9/23/15	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@10	ND@1	ND@100	NA
	12/16/15	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@10	ND@1	ND@100	NA
	3/4/16	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@10	ND@1	ND@100	NA
	6/2/16	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@10	ND@1	ND@100	NA
	9/16/16	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@10	ND@1	ND@100	NA
	12/16/16	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@10	ND@1	ND@100	NA
	3/16/17	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@10	ND@1	ND@100	NA
	6/5/17	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@10	ND@1	ND@100	NA
	8/24/17	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@10	ND@1	ND@100	NA
	9/20/17	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@10	ND@1	ND@100	NA
	12/8/17	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@10	ND@1	ND@100	NA
	3/26/18	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@10	ND@1	ND@100	NA

Table 1: Groundwater Analytical Results
7-Eleven Store No. 32785
Hampstead, Maryland

Sample ID	Date	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Xylenes (µg/L)	BTEX (µg/L)	MTBE (µg/L)	TBA (µg/L)	TAME (µg/L)	TPH-GRO (µg/L)	TPH-DRO (mg/L)
MW-4	7/25/05	NI	NI	NI	NI	NI	NI	NI	NI	NA	NA
	1/25/06	ND@1	ND@1	ND@1	ND@3	ND	2	ND@25	ND@25	NA	NA
	7/11/06	ND@1	ND@1	ND@1	ND@3	ND	6	ND@25	ND@25	NA	NA
	1/9/07	ND@1	ND@1	ND@1	ND@3	ND	4	ND@10	ND@10	NA	NA
	6/14/07	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@10	ND@10	ND@100	ND@0.5
	11/30/07	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@10	ND@10	ND@100	ND@0.6
	2/14/08	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@10	ND@10	ND@100	ND@0.5
	5/23/08	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@10	ND@10	ND@100	ND@0.5
	8/7/08	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	ND@0.5
	12/3/08	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	ND@0.5
	2/12/09	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	ND@0.5
	5/12/09	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	ND@0.5
	8/19/09	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	NA
	11/4/09	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	NA
	2/26/10	ND@1	ND@1	ND@1	ND@3	ND	15	ND@20	ND@10	ND@100	NA
	5/13/10	ND@1	ND@1	ND@1	ND@3	ND	15	ND@20	ND@10	ND@100	NA
	8/17/10	ND@1	ND@1	ND@1	ND@3	ND	**64**	ND@20	ND@10	ND@100	NA
	11/28/10	ND@1	ND@1	ND@1	ND@3	ND	4	ND@20	ND@10	ND@100	NA
	2/2/11	ND@1	ND@1	ND@1	ND@3	ND	5	ND@20	ND@10	ND@100	NA
	6/28/11	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	NA
	9/29/11	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	NA
	12/20/11	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	NA
	3/8/12	ND@1	ND@1	ND@1	ND@3	ND	4.2	ND@20	ND@10	ND@100	NA
	6/8/12	ND@1	ND@1	ND@1	ND@3	ND	2.3	ND@20	ND@10	ND@100	NA
	9/19/12	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	NA
	12/21/12	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	NA
	3/29/13	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	NA
	6/5/13	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	NA
	9/25/13	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	NA
	12/16/13	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	NA
	3/11/14	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	NA
	6/9/14	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	NA
	9/16/14	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	NA
	12/3/14	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	NA
	3/16/14	ND@1	ND@1	ND@1	ND@2	ND	ND@1	ND@10	ND@1	ND@100	NA
	6/22/15	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@10	ND@1	ND@100	NA
	7/22/15	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@10	ND@1	ND@100	NA
	9/23/15	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@10	ND@1	ND@100	NA
	12/16/15	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@10	ND@1	ND@100	NA
	3/4/16	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@10	ND@1	ND@100	NA
	6/2/16	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@10	ND@1	ND@100	NA
	9/16/16	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@10	ND@1	ND@100	NA
	12/16/16	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@10	ND@1	ND@100	NA
	3/16/17	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@10	ND@1	ND@100	NA
	6/5/17	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@10	ND@1	ND@100	NA
	8/24/17	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@10	ND@1	ND@100	NA
	9/20/17	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@10	ND@1	ND@100	NA
	12/8/17	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@10	ND@1	ND@100	NA
	3/26/18	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@10	ND@1	ND@100	NA

Table 1: Groundwater Analytical Results
7-Eleven Store No. 32785
Hampstead, Maryland

Sample ID	Date	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Xylenes (µg/L)	BTEX (µg/L)	MTBE (µg/L)	TBA (µg/L)	TAME (µg/L)	TPH-GRO (µg/L)	TPH-DRO (mg/L)
MW-5	7/25/05	NI	NI	NI	NI	NI	NI	NI	NI	NA	NA
	1/25/06	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@25	ND@25	NA	NA
	7/11/06	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@25	ND@25	NA	NA
	1/9/07	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@10	ND@10	NA	NA
	6/14/07	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@10	ND@10	ND@100	ND@0.5
	11/30/07	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@10	ND@10	ND@100	ND@0.5
	2/14/08	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@10	ND@10	ND@100	ND@0.5
	5/23/08	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@10	ND@10	ND@100	ND@0.5
	8/7/08	ND@1	ND@1	ND@1	ND@3	ND	7	ND@20	ND@10	ND@100	ND@0.5
	12/3/08	ND@1	ND@1	ND@1	ND@3	ND	1	ND@20	ND@10	ND@100	ND@0.5
	2/12/09	ND@1	ND@1	ND@1	ND@3	ND	1	ND@20	ND@10	ND@100	ND@0.5
	5/12/09	ND@1	ND@1	ND@1	ND@3	ND	5	ND@20	ND@10	ND@100	ND@0.5
	8/19/09	ND@1	ND@1	ND@1	ND@3	ND	3	ND@20	ND@10	ND@100	NA
	11/4/09	ND@1	ND@1	ND@1	ND@3	ND	5	ND@20	ND@10	ND@100	NA
	2/26/10	ND@1	ND@1	ND@1	ND@3	ND	5	ND@20	ND@10	ND@100	NA
	5/13/10	ND@1	ND@1	ND@1	ND@3	ND	6	ND@20	ND@10	ND@100	NA
	8/17/10	ND@1	ND@1	ND@1	ND@3	ND	4	ND@20	ND@10	ND@100	NA
	11/28/10	ND@1	ND@1	ND@1	ND@3	ND	6	ND@20	ND@10	ND@100	NA
	2/2/11	ND@1	ND@1	ND@1	ND@3	ND	7	ND@20	ND@10	ND@100	NA
	6/28/11	ND@1	ND@1	ND@1	ND@3	ND	3	ND@20	ND@10	ND@100	NA
	9/29/11	ND@1	ND@1	ND@1	ND@3	ND	4	ND@20	ND@10	ND@100	NA
	12/20/11	ND@1	ND@1	ND@1	ND@3	ND	2.4	ND@20	ND@10	ND@100	NA
	3/8/12	ND@1	ND@1	ND@1	ND@3	ND	1.2	ND@20	ND@10	ND@100	NA
	6/8/12	ND@1	ND@1	ND@1	ND@3	ND	2.0	ND@20	ND@10	ND@100	NA
	9/19/12	ND@1	ND@1	ND@1	ND@3	ND	1.4	ND@20	ND@10	ND@100	NA
	12/21/12	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	NA
	3/29/13	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	NA
	6/5/13	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	NA
	9/25/13	ND@1	ND@1	ND@1	ND@3	ND	1.1	ND@20	ND@10	ND@100	NA
	12/16/13	ND@1	ND@1	ND@1	ND@3	ND	1.6	ND@20	ND@10	ND@100	NA
	3/11/14	ND@1	ND@1	ND@1	ND@3	ND	1.3	ND@20	ND@10	ND@100	NA
	6/9/14	ND@1	ND@1	ND@1	ND@3	ND	3.4	ND@20	ND@10	ND@100	NA
	9/16/14	ND@1	ND@1	ND@1	ND@3	ND	2.2	ND@20	ND@10	ND@100	NA
	12/3/14	ND@1	ND@1	ND@1	ND@3	ND	4.2	ND@20	ND@10	ND@100	NA
	3/16/15	ND@1	ND@1	ND@1	ND@2	ND	4.7	ND@10	ND@1	ND@100	NA
	6/22/15	ND@1	ND@1	ND@1	ND@3	ND	6.2	ND@10	ND@1	ND@100	NA
	7/22/15	ND@1	ND@1	ND@1	ND@3	ND	7.5	ND@10	ND@1	ND@100	NA
	9/23/15	ND@1	ND@1	ND@1	ND@3	ND	7.2	ND@10	ND@1	ND@100	NA
	12/16/15	ND@1	ND@1	ND@1	ND@3	ND	6.5	ND@10	ND@1	ND@100	NA
	3/4/16	ND@1	ND@1	ND@1	ND@3	ND	2.2	ND@10	ND@1	ND@100	NA
	6/2/16	ND@1	ND@1	ND@1	ND@3	ND	2.1	ND@10	ND@1	ND@100	NA
	9/16/16	ND@1	ND@1	ND@1	ND@3	ND	2.2	ND@10	ND@1	ND@100	NA
	12/16/16	ND@1	ND@1	ND@1	ND@3	ND	2.1	ND@10	ND@1	ND@100	NA
	3/16/17	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@10	ND@1	ND@100	NA
	6/5/17	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@10	ND@1	ND@100	NA
	8/24/17	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@10	ND@1	ND@100	NA
	9/20/17	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@10	ND@1	ND@100	NA
	12/8/17	ND@1	ND@1	ND@1	ND@3	ND	1.52	ND@10	ND@1	ND@100	NA
	3/26/18	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@10	ND@1	ND@100	NA

Table 1: Groundwater Analytical Results
7-Eleven Store No. 32785
Hampstead, Maryland

Sample ID	Date	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Xylenes (µg/L)	BTEX (µg/L)	MTBE (µg/L)	TBA (µg/L)	TAME (µg/L)	TPH-GRO (µg/L)	TPH-DRO (mg/L)
MW-6	12/3/08	ND@100	ND@100	ND@100	ND@300	ND	**20,000**	ND@2000	ND@1000	**9,600**	ND@0.5
	2/12/09	ND@10	ND@10	ND@10	ND@30	ND	**15,000**	70	550	**2,800**	ND@0.5
	5/12/09	ND@1	ND@1	ND@1	ND@3	ND	**18,000**	470	640	**2,700**	ND@0.5
	8/19/09	ND@1	ND@1	ND@1	ND@3	ND	**17,000**	810	450	**3,300**	NA
	11/4/09	ND@1	ND@1	ND@1	ND@3	ND	**17,000**	1,500	370	**33,000**	NA
	2/26/10	ND@1	ND@1	ND@1	ND@3	ND	**14,000**	3,600	230	**16,000**	NA
	5/13/10	ND@1	ND@1	ND@1	ND@3	ND	**12,000**	3,400	180	**15,000**	NA
	6/11/10	ND@1	ND@1	ND@1	ND@3	ND	**11,000**	4,500	230	**14,000**	NA
	8/17/10	ND@1	ND@1	ND@1	ND@3	ND	**14,000**	1,300	250	**19,000**	NA
	11/28/10	ND@1	ND@1	ND@1	ND@3	ND	**11,000**	2,500	200	**12,000**	NA
	2/2/11	ND@1	ND@1	ND@1	ND@3	ND	**9,300**	1,500	180	**14,000**	NA
	5/26/11	ND@1	ND@1	ND@1	ND@3	ND	**6,700**	400	100	**8,600**	NA
	6/28/11	ND@1	ND@1	ND@1	ND@3	ND	**7,900**	910	90	**8,400**	NA
	9/29/11	ND@1	ND@1	ND@1	ND@3	ND	**8,600**	ND@2000	ND@1000	**4,400**	NA
	12/20/11	ND@1	ND@1	ND@1	ND@3	ND	**6,500**	460	76	**5,100**	NA
	3/8/12	ND@1	ND@1	ND@1	ND@3	ND	**3,200**	210	ND@50	**4,200**	NA
	6/8/12	ND@5	ND@5	ND@5	ND@15	ND	**2,600**	150	ND@50	**3,200**	NA
	9/19/12	ND@1	ND@1	ND@1	ND@3	ND	**2,200**	100	23	**2,300**	NA
	12/21/12	ND@1	ND@1	ND@1	ND@3	ND	**1,900**	58	21	**1,700**	NA
	3/29/13	ND@1	ND@1	ND@1	ND@3	ND	**890**	ND@100	ND@50	**910**	NA
	6/5/13	ND@1	ND@1	ND@1	ND@3	ND	**1,100**	32	12	**1,000**	NA
	9/25/13	ND@1	ND@1	ND@1	ND@3	ND	**1,100**	26	12	**690**	NA
	12/16/13	ND@1	ND@1	ND@1	ND@3	ND	**1,900**	ND@100	ND@50	**2,500**	NA
	3/11/14	ND@1	ND@1	ND@1	ND@3	ND	**1,100**	ND@100	ND@50	**1,900**	NA
	6/9/14	ND@1	ND@1	ND@1	ND@3	ND	**720**	ND@100	ND@50	**720**	NA
	9/16/14	ND@1	ND@1	ND@1	ND@3	ND	**630**	ND@100	ND@50	**640**	NA
	12/3/14	ND@1	ND@1	ND@1	ND@3	ND	**600**	ND@20	ND@10	**500**	NA
	3/16/15	ND@1	ND@1	ND@1	ND@2	ND	**78**	ND@10	ND@1	ND@100	NA
	6/22/15	ND@1	ND@1	ND@1	ND@3	ND	**196**	ND@10	1.23	ND@100	NA
	7/22/15	ND@1	ND@1	ND@1	ND@3	ND	**200**	ND@10	1.61	ND@100	NA
	9/23/15	ND@1	ND@1	ND@1	ND@3	ND	**139**	ND@10	1.11	**125**	NA
	12/16/15	ND@1	ND@1	ND@1	ND@3	ND	**82.2**	ND@10	ND@1	ND@100	NA
	3/4/16	ND@1	ND@1	ND@1	ND@3	ND	**36.6**	ND@10	ND@1	ND@100	NA
	6/2/16	ND@1	ND@1	ND@1	ND@3	ND	**29.9**	ND@10	ND@1	ND@100	NA
	9/16/16	ND@1	ND@1	ND@1	ND@3	ND	**23.8**	ND@10	ND@1	ND@100	NA
	12/16/16	ND@1	ND@1	ND@1	ND@3	ND	8.59	ND@10	ND@1	ND@100	NA
	3/16/17	ND@1	ND@1	ND@1	ND@3	ND	4.65	ND@10	ND@1	ND@100	NA
	6/5/17	ND@1	ND@1	ND@1	ND@3	ND	1.86	ND@10	ND@1	ND@100	NA
	8/24/17	ND@1	ND@1	ND@1	ND@3	ND	3.25	ND@10	ND@1	ND@100	NA
	9/20/17	ND@1	ND@1	ND@1	ND@3	ND	4.32	ND@10	ND@1	ND@100	NA
	12/8/17	ND@1	ND@1	ND@1	ND@3	ND	3.79	ND@10	ND@1	ND@100	NA
	3/26/18	ND@1	ND@1	ND@1	ND@3	ND	3.38	ND@10	ND@1	ND@100	NA

Table 1: Groundwater Analytical Results
7-Eleven Store No. 32785
Hampstead, Maryland

Sample ID	Date	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Xylenes (µg/L)	BTEX (µg/L)	MTBE (µg/L)	TBA (µg/L)	TAME (µg/L)	TPH-GRO (µg/L)	TPH-DRO (mg/L)
MW-7	12/3/08	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	ND@0.5
	2/12/09	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	ND@0.5
	5/12/09	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	ND@0.5
	8/19/09	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	NA
	11/4/09	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	NA
	2/26/10	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	NA
	5/13/10	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	NA
	8/17/10	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	NA
	11/28/10	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	NA
	2/2/11	ND@1	ND@1	ND@1	ND@3	ND	**160**	ND@20	ND@10	ND@100	NA
	6/28/11	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	NA
	9/29/11	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	NA
	12/20/11	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	NA
	3/8/12	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	NA
	6/8/12	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	NA
	9/19/12	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	NA
	12/21/12	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	NA
	3/29/13	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	NA
	6/5/13	ND@1	ND@1	ND@1	ND@3	ND	4.8	ND@20	ND@10	ND@100	NA
	9/25/13	ND@1	ND@1	ND@1	ND@3	ND	19	ND@20	ND@10	ND@100	NA
	12/16/13	ND@1	ND@1	ND@1	ND@3	ND	1.2	ND@20	ND@10	ND@100	NA
	3/11/14	ND@1	ND@1	ND@1	ND@3	ND	15	ND@20	ND@10	ND@100	NA
	6/9/14	ND@1	ND@1	ND@1	ND@3	ND	2.5	ND@20	ND@10	ND@100	NA
	9/16/14	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	NA
	12/3/14	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	NA
	3/16/15	ND@1	ND@1	ND@1	ND@2	ND	ND@1	ND@10	ND@1	ND@100	NA
	6/22/15	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@10	ND@1	ND@100	NA
	7/22/15	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@10	ND@1	ND@100	NA
	9/23/15	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@10	ND@1	ND@100	NA
	12/16/15	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@10	ND@1	ND@100	NA
	3/4/16	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@10	ND@1	ND@100	NA
	6/2/16	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@10	ND@1	ND@100	NA
	9/16/16	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@10	ND@1	ND@100	NA
	12/16/16	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@10	ND@1	ND@100	NA
	3/16/17	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@10	ND@1	ND@100	NA
	6/5/17	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@10	ND@1	ND@100	NA
	8/24/17	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@10	ND@1	ND@100	NA
	9/20/17	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@10	ND@1	ND@100	NA
	12/8/17	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@10	ND@1	ND@100	NA
	3/26/18	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@10	ND@1	ND@100	NA

Table 1: Groundwater Analytical Results
7-Eleven Store No. 32785
Hampstead, Maryland

Sample ID	Date	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Xylenes (µg/L)	BTEX (µg/L)	MTBE (µg/L)	TBA (µg/L)	TAME (µg/L)	TPH-GRO (µg/L)	TPH-DRO (mg/L)
MW-8	12/3/08	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	ND@0.5
	2/12/09	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	ND@0.5
	5/12/09	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	ND@0.5
	8/19/09	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	NA
	11/4/09	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	NA
	2/26/10	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	NA
	5/13/10	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	NA
	8/17/10	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	NA
	11/28/10	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	NA
	2/2/11	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	NA
	6/28/11	ND@1	ND@1	ND@1	ND@3	ND	**38**	ND@20	ND@10	ND@100	NA
	9/29/11	ND@1	ND@1	ND@1	ND@3	ND	**66**	ND@20	ND@10	ND@100	NA
	12/20/11	ND@1	ND@1	ND@1	ND@3	ND	**69**	ND@20	ND@10	ND@100	NA
	3/8/12	ND@1	ND@1	ND@1	ND@3	ND	**200**	ND@20	ND@10	**290**	NA
	6/8/12	ND@1	ND@1	ND@1	ND@3	ND	**420**	ND@20	12	**570**	NA
	9/19/12	ND@1	ND@1	ND@1	ND@3	ND	**500**	54	17	**580**	NA
	12/21/12	ND@1	ND@1	ND@1	ND@3	ND	**940**	110	38	**1,000**	NA
	3/29/13	ND@1	ND@1	ND@1	ND@3	ND	**1,100**	150	55	**1,000**	NA
	6/5/13	ND@1	ND@1	ND@1	ND@3	ND	**1,200**	180	50	**1,200**	NA
	9/25/13	ND@1	ND@1	ND@1	ND@3	ND	**1,200**	150	48	**1,000**	NA
	12/16/13	ND@1	ND@1	ND@1	ND@3	ND	**530**	ND@20	ND@10	**600**	NA
	3/11/14	ND@1	ND@1	ND@1	ND@3	ND	**1,000**	ND@20	ND@10	**890**	NA
	6/9/14	ND@1	ND@1	ND@1	ND@3	ND	**420**	ND@20	ND@10	**350**	NA
	9/16/14	ND@1	ND@1	ND@1	ND@3	ND	**60**	ND@20	ND@10	ND@100	NA
	12/3/14	ND@1	ND@1	ND@1	ND@3	ND	16	ND@20	ND@10	ND@100	NA
	3/16/15	ND@1	ND@1	ND@1	ND@2	ND	8.1	ND@10	ND@1	ND@100	NA
	6/22/15	ND@1	ND@1	ND@1	ND@3	ND	3.5	ND@10	ND@1	ND@100	NA
	7/22/15	ND@1	ND@1	ND@1	ND@3	ND	2.5	ND@10	ND@1	ND@100	NA
	9/23/15	ND@1	ND@1	ND@1	ND@3	ND	**308**	25.1	5.86	**246**	NA
	12/16/15	ND@1	ND@1	ND@1	ND@3	ND	4.5	ND@10	ND@1	ND@100	NA
	2/4/16	ND@1	ND@1	ND@1	ND@3	ND	3.3	2.64 J	ND@1	NA	NA
	2/16/16	ND@1	ND@1	ND@1	ND@3	ND	14.7	ND@10	ND@1	ND@100	NA
	3/4/16	ND@1	ND@1	ND@1	ND@3	ND	4.4	ND@10	ND@1	ND@100	NA
	3/16/16	ND@1	ND@1	ND@1	ND@3	ND	**101**	ND@10	2.37	ND@100	NA
	4/4/16	ND@1	ND@1	ND@1	ND@3	ND	3.2	ND@10	ND@1	ND@100	NA
	4/20/16	ND@1	10.5	ND@1	ND@3	10.5	**246**	48.1	5.95	**201**	NA
	5/5/16	ND@1	ND@1	ND@1	ND@3	ND	5.6	23.7	ND@1	ND@100	NA
	5/19/16	ND@1	1.17	ND@1	ND@3	1.17	**267**	25	5.24	**264**	NA
	6/2/16	ND@1	ND@1	ND@1	ND@3	ND	4.9	ND@10	ND@1	ND@100	NA
	6/14/16	ND@1	ND@1	ND@1	ND@3	ND	**152**	18.6	3	**122**	NA
	7/14/16	ND@1	ND@1	ND@1	ND@3	ND	**178**	96.5	2.94	**172**	NA
	8/1/16	ND@1	ND@1	ND@1	ND@3	ND	4.01	ND@10	ND@1	ND@100	NA
	8/16/16	ND@1	ND@1	ND@1	ND@3	ND	**125**	ND@10	2.06	ND@100	NA
	9/3/16	ND@1	ND@1	ND@1	ND@3	ND	**84.4**	ND@10	ND@1	ND@100	NA
	9/16/16	ND@1	ND@1	ND@1	ND@3	ND	3.3	ND@10	ND@1	ND@100	NA
	10/4/16	ND@1	ND@1	ND@1	ND@3	ND	**156**	12.4	2.84	**193**	NA
	10/17/16	ND@1	ND@1	ND@1	ND@3	ND	6.7	ND@10	ND@1	ND@100	NA
	11/1/16	ND@1	ND@1	ND@1	ND@3	ND	**25.7**	ND@10	ND@1	ND@100	NA
	11/21/16	ND@1	ND@1	ND@1	ND@3	ND	3.3	ND@10	ND@1	ND@100	NA
	12/16/16	ND@1	ND@1	ND@1	ND@3	ND	**79.6**	ND@10	ND@1	ND@100	NA
	12/31/16	ND@1	ND@1	ND@1	ND@3	ND	**24.2**	ND@10	ND@1	ND@100	NA
	1/11/17	ND@1	ND@1	ND@1	ND@3	ND	6.7	ND@10	ND@1	ND@100	NA
	1/27/17	ND@1	ND@1	ND@1	ND@3	ND	3.4	ND@10	ND@1	ND@100	NA

Table 1: Groundwater Analytical Results
7-Eleven Store No. 32785
Hampstead, Maryland

Sample ID	Date	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Xylenes (µg/L)	BTEX (µg/L)	MTBE (µg/L)	TBA (µg/L)	TAME (µg/L)	TPH-GRO (µg/L)	TPH-DRO (mg/L)
MW-8 (continued)	2/10/17	ND@1	ND@1	ND@1	ND@3	ND	4.7	ND@10	ND@1	ND@100	NA
	2/28/17	ND@1	ND@1	ND@1	ND@3	ND	3.2	ND@10	ND@1	ND@100	NA
	3/16/17	ND@1	ND@1	ND@1	ND@3	ND	3.6	ND@10	ND@1	ND@100	NA
	3/29/17	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@10	ND@1	ND@100	NA
	4/7/17	ND@1	ND@1	ND@1	ND@3	ND	8.94	ND@10	ND@1	ND@100	NA
	4/24/17	ND@1	ND@1	ND@1	ND@3	ND	3.35	ND@10	ND@1	ND@100	NA
	5/2/17	ND@1	ND@1	ND@1	ND@3	ND	12.1	ND@10	ND@1	ND@100	NA
	5/24/17	ND@1	ND@1	ND@1	ND@3	ND	**47.9**	ND@10	ND@1	ND@100	NA
	6/5/17	ND@1	ND@1	ND@1	ND@3	ND	**47.2**	ND@10	ND@1	ND@100	NA
	6/28/17	ND@1	ND@1	ND@1	ND@3	ND	**89.6**	ND@10	1.46	ND@100	NA
	7/24/17	ND@1	ND@1	ND@1	ND@3	ND	**107**	NA	NA	**134**	NA
	8/24/17	ND@1	ND@1	ND@1	ND@3	ND	**273**	ND@10	5.35	**289**	NA
	9/20/17	ND@1	ND@1	ND@1	ND@3	ND	**329**	16.2	6.30	**434**	NA
	10/13/17	ND@1	ND@1	ND@1	ND@3	ND	**34.3**	NA	NA	ND@100	NA
	10/23/17	ND@1	ND@1	ND@1	ND@3	ND	7.02	NA	NA	ND@100	NA
	11/8/17	ND@1	ND@1	ND@1	ND@3	ND	3.33	NA	NA	ND@100	NA
	11/27/17	ND@1	ND@1	ND@1	ND@3	ND	**164**	NA	NA	**153**	NA
	12/8/17	ND@1	ND@1	ND@1	ND@3	ND	5.65	ND@10	ND@1	ND@100	NA
	12/26/17	ND@1	3.89	ND@1	ND@3	3.89	**28**	NA	NA	ND@100	NA
	1/9/18	ND@1	ND@1	ND@1	ND@3	ND	**89**	NA	NA	ND@100	NA
	1/25/18	ND@1	ND@1	ND@1	ND@3	ND	**59.6**	NA	NA	ND@100	NA
	2/6/18	ND@1	ND@1	ND@1	ND@3	ND	**47.4**	NA	NA	ND@100	NA
	2/19/18	ND@1	ND@1	ND@1	ND@3	ND	**48.8**	NA	NA	ND@100	NA
	3/12/18	ND@1	ND@1	ND@1	ND@3	ND	**41.2**	NA	NA	ND@100	NA
	3/26/18	ND@1	ND@1	ND@1	ND@3	ND	**21.2**	ND@10	ND@1	ND@100	NA
	4/17/18	ND@1	ND@1	ND@1	ND@3	ND	**18.3**	NA	NA	ND@100	NA
	4/30/18	ND@1	ND@1	ND@1	ND@3	ND	**18**	NA	NA	ND@100	NA
	5/17/18	ND@1	ND@1	ND@1	ND@3	ND	**10.2**	NA	NA	ND@100	NA

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7-Eleven Store No. 32785
Hampstead, Maryland

Sample ID	Date	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Xylenes (µg/L)	BTEX (µg/L)	MTBE (µg/L)	TBA (µg/L)	TAME (µg/L)	TPH-GRO (µg/L)	TPH-DRO (mg/L)
MW-9	6/11/10	ND@1	ND@1	ND@1	ND@3	ND	18	ND@20	ND@10	ND@100	NA
	8/17/10	ND@1	ND@1	ND@1	ND@3	ND	**32**	ND@20	ND@10	ND@100	NA
	11/28/10	ND@1	ND@1	ND@1	ND@3	ND	**40**	ND@20	ND@10	ND@100	NA
	2/2/11	ND@1	ND@1	ND@1	ND@3	ND	**130**	ND@20	ND@10	**140**	NA
	6/28/11	ND@1	ND@1	ND@1	ND@3	ND	**340**	ND@20	ND@10	**350**	NA
	9/29/11	ND@1	ND@1	ND@1	ND@3	ND	**520**	ND@20	ND@10	**340**	NA
	12/20/11	ND@5	ND@5	ND@5	ND@15	ND	**440**	ND@100	ND@50	**390**	NA
	3/8/12	ND@5	ND@5	ND@5	ND@15	ND	**240**	30	ND@10	**390**	NA
	6/8/12	ND@1	ND@1	ND@1	ND@3	ND	**290**	34	ND@10	**380**	NA
	9/19/12	ND@1	ND@1	ND@1	ND@3	ND	**820**	190	34	**920**	NA
	12/21/12	ND@1	ND@1	ND@1	ND@3	ND	**360**	52	14	**360**	NA
	3/29/13	ND@1	ND@1	ND@1	ND@3	ND	**280**	35	12	**330**	NA
	6/5/13	ND@1	ND@1	ND@1	ND@3	ND	**490**	83	21	**540**	NA
	9/25/13	ND@1	ND@1	ND@1	ND@3	ND	**1,200**	220	51	**980**	NA
	12/16/13	ND@1	ND@1	ND@1	ND@3	ND	**240**	ND@20	ND@10	**290**	NA
	3/11/14	ND@1	ND@1	ND@1	ND@3	ND	**3,500**	840	140	**3,800**	NA
	6/9/14	ND@1	ND@1	ND@1	ND@3	ND	**760**	ND@20	21	**660**	NA
	9/16/14	ND@1	ND@1	ND@1	ND@3	ND	**450**	ND@20	21	**470**	NA
	12/3/14	ND@1	ND@1	ND@1	ND@3	ND	**310**	ND@20	ND@10	**260**	NA
	3/16/15	ND@1	ND@1	ND@1	ND@3	ND	**426**	ND@10	3.3	**405**	NA
	6/22/15	ND@1	ND@1	ND@1	ND@3	ND	**113**	ND@10	ND@1	ND@100	NA
	7/22/15	ND@1	ND@1	ND@1	ND@3	ND	**105**	ND@10	1.1	ND@100	NA
	9/23/15	ND@1	ND@1	ND@1	ND@3	ND	**634**	31.1	12.3	**494**	NA
	12/16/15	ND@1	ND@1	ND@1	ND@3	ND	**151**	ND@10	1.6	**141**	NA
	2/4/16	ND@1	ND@1	ND@1	ND@3	ND	**72.9**	7.35	0.464 J	NA	NA
	2/16/16	ND@1	ND@1	ND@1	ND@3	ND	**180**	16.3	4.6	**115**	NA
	3/4/16	ND@1	ND@1	ND@1	ND@3	ND	**104**	ND@10	ND@1	ND@100	NA
	3/16/16	ND@1	ND@1	ND@1	ND@3	ND	**48.3**	ND@10	1.44	ND@100	NA
	4/4/16	ND@1	ND@1	ND@1	ND@3	ND	**48.4**	ND@10	ND@1	ND@100	NA
	4/20/16	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@10	ND@1	ND@100	NA
	5/5/16	ND@1	ND@1	ND@1	ND@3	ND	**71.4**	ND@10	ND@1	ND@100	NA
	5/19/16	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@10	ND@1	ND@100	NA
	6/2/16	ND@1	ND@1	ND@1	ND@3	ND	**54.5**	ND@10	ND@1	ND@100	NA
	6/14/16	ND@1	ND@1	ND@1	ND@3	ND	**1,330**	290	33.8	**1,240**	NA
	7/14/16	ND@1	ND@1	ND@1	ND@3	ND	6.70	ND@10	ND@1	ND@100	NA
	8/1/16	ND@1	ND@1	ND@1	ND@3	ND	**35.5**	ND@10	ND@1	ND@100	NA
	8/16/16	ND@1	ND@1	ND@1	ND@3	ND	2.49	ND@10	ND@1	ND@100	NA
	9/3/16	ND@1	ND@1	ND@1	ND@3	ND	**189**	ND@10	3.29	**129**	NA
	9/16/16	ND@1	ND@1	ND@1	ND@3	ND	17	ND@10	3.29	ND@100	NA
	10/4/16	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@10	ND@1	ND@100	NA
	10/17/16	ND@1	ND@1	ND@1	ND@3	ND	**20.4**	ND@10	ND@1	ND@100	NA
	11/1/16	ND@1	ND@1	ND@1	ND@3	ND	**1,190**	164	32	**560**	NA
	11/21/16	ND@1	ND@1	ND@1	ND@3	ND	7.43	ND@10	ND@1	ND@100	NA
	12/16/16	ND@1	ND@1	ND@1	ND@3	ND	**733**	49.5	17.2	**627**	NA
	12/31/16	ND@1	ND@1	ND@1	ND@3	ND	**106**	ND@10	1.62	**112**	NA
	1/11/17	ND@1	ND@1	ND@1	ND@3	ND	**21.7**	ND@10	ND@1	ND@100	NA
	1/27/17	ND@1	ND@1	ND@1	ND@3	ND	6.8	ND@10	ND@1	ND@100	NA
	2/10/17	ND@1	ND@1	ND@1	ND@3	ND	5.4	ND@10	ND@1	ND@100	NA
	3/28/17	ND@1	ND@1	ND@1	ND@3	ND	3.8	ND@10	ND@1	ND@100	NA
	3/16/17	ND@1	ND@1	ND@1	ND@3	ND	3.6	ND@10	ND@1	ND@100	NA
	3/29/17	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@10	ND@1	ND@100	NA
	4/7/17	ND@1	ND@1	ND@1	ND@3	ND	17.9	ND@10	ND@1	ND@100	NA
	4/24/17	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@10	ND@1	ND@100	NA

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7-Eleven Store No. 32785
Hampstead, Maryland

Sample ID	Date	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Xylenes (µg/L)	BTEX (µg/L)	MTBE (µg/L)	TBA (µg/L)	TAME (µg/L)	TPH-GRO (µg/L)	TPH-DRO (mg/L)
MW-9 (continued)	5/2/17	ND@1	ND@1	ND@1	ND@3	ND	19.1	ND@10	ND@1	ND@100	NA
	5/24/17	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@10	ND@1	ND@100	NA
	6/5/17	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@10	ND@1	ND@100	NA
	6/28/17	ND@1	ND@1	ND@1	ND@3	ND	4.74	ND@10	ND@1	ND@100	NA
	7/24/17	ND@1	ND@1	ND@1	ND@3	ND	**26.5**	NA	NA	ND@100	NA
	8/24/17	ND@1	ND@1	ND@1	ND@3	ND	**203**	ND@10	4.44	**250**	NA
	9/20/17	ND@1	ND@1	ND@1	ND@3	ND	**266**	11.6	5.01	**356**	NA
	10/13/17	ND@1	ND@1	ND@1	ND@3	ND	**99.3**	NA	NA	**128**	NA
	10/23/17	ND@1	ND@1	ND@1	ND@3	ND	8.09	NA	NA	ND@100	NA
	11/8/17	ND@1	ND@1	ND@1	ND@3	ND	9.38	NA	NA	ND@100	NA
	11/27/17	ND@1	ND@1	ND@1	ND@3	ND	**119**	NA	NA	**147**	NA
	12/8/17	ND@1	ND@1	ND@1	ND@3	ND	**18.7**	ND@10	ND@1	ND@100	NA
	12/26/17	ND@1	ND@1	ND@1	ND@3	ND	10.2	NA	NA	ND@100	NA
	1/9/18	ND@1	ND@1	ND@1	ND@3	ND	**165**	NA	NA	**150**	NA
	1/25/18	ND@1	ND@1	ND@1	ND@3	ND	**125**	NA	NA	**103**	NA
	2/6/18	ND@1	ND@1	ND@1	ND@3	ND	**40.4**	NA	NA	ND@100	NA
	2/19/18	ND@1	ND@1	ND@1	ND@3	ND	**72.8**	NA	NA	ND@100	NA
	3/12/18	ND@1	ND@1	ND@1	ND@3	ND	**51.7**	NA	NA	ND@100	NA
	3/26/18	ND@1	ND@1	ND@1	ND@3	ND	**75.4**	ND@10	1.14	ND@100	NA
	4/17/18	ND@1	ND@1	ND@1	ND@3	ND	**83**	NA	NA	ND@100	NA
	4/30/18	ND@1	ND@1	ND@1	ND@3	ND	**47.1**	NA	NA	ND@100	NA
	5/17/18	ND@1	ND@1	ND@1	ND@3	ND	**17.5**	NA	NA	ND@100	NA

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7-Eleven Store No. 32785
Hampstead, Maryland

Sample ID	Date	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Xylenes (µg/L)	BTEX (µg/L)	MTBE (µg/L)	TBA (µg/L)	TAME (µg/L)	TPH-GRO (µg/L)	TPH-DRO (mg/L)
MW-10	6/11/10	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	NA
	8/17/10	10	3	ND@1	ND@3	13	ND@1	ND@20	ND@10	ND@100	NA
	11/28/10	12	2	ND@1	ND@3	14	ND@1	ND@20	ND@10	ND@100	NA
	2/2/11	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	NA
	6/28/11	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	NA
	9/29/11	ND@1	ND@1	ND@1	ND@3	ND	2	ND@20	ND@10	ND@100	NA
	12/20/11	ND@1	ND@1	ND@1	ND@3	ND	16	ND@20	ND@10	ND@100	NA
	3/8/12	ND@1	ND@1	ND@1	ND@3	ND	10	ND@20	ND@10	ND@100	NA
	6/8/12	ND@1	ND@1	ND@1	ND@3	ND	**38**	ND@20	ND@10	ND@100	NA
	9/19/12	ND@1	ND@1	ND@1	ND@3	ND	**170**	ND@20	ND@10	**190**	NA
	12/21/12	ND@1	ND@1	ND@1	ND@3	ND	**97**	ND@20	ND@10	ND@100	NA
	3/29/13	ND@1	ND@1	ND@1	ND@3	ND	**230**	22	ND@10	**290**	NA
	6/5/13	ND@1	ND@1	ND@1	ND@3	ND	**88**	ND@20	ND@10	ND@100	NA
	9/25/13	ND@1	ND@1	ND@1	ND@3	ND	**200**	ND@20	ND@10	**1,200**	NA
	12/16/13	ND@1	ND@1	ND@1	ND@3	ND	2	ND@20	ND@10	ND@100	NA
	3/11/14	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	NA
	6/9/14	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	NA
	9/16/14	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	NA
	12/3/14	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@20	ND@10	ND@100	NA
	3/16/15	ND@1	ND@1	ND@1	ND@2	ND	ND@1	ND@10	ND@1	ND@100	NA
	6/22/15	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@10	ND@1	ND@100	NA
	7/22/15	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@10	ND@1	ND@100	NA
	9/23/15	ND@1	ND@1	ND@1	ND@3	ND	1.14	ND@10	ND@1	ND@100	NA
	12/16/15	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@10	ND@1	ND@100	NA
	2/4/16	ND@1	ND@1	ND@1	ND@3	ND	0.518 J	ND@10	ND@1	ND@100	NA
	2/16/16	ND@1	ND@1	ND@1	ND@3	ND	7.36	ND@10	ND@1	ND@100	NA
	3/4/16	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@10	ND@1	ND@100	NA
	3/16/16	ND@1	ND@1	ND@1	ND@3	ND	1.62	ND@10	ND@1	ND@100	NA
	4/4/16	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@10	ND@1	ND@100	NA
	4/20/16	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@10	ND@1	ND@100	NA
	5/5/16	ND@1	ND@1	ND@1	ND@3	ND	ND@1	16.1	ND@1	ND@100	NA
	5/19/16	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@10	ND@1	ND@100	NA
	6/2/16	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@10	ND@1	ND@100	NA
	6/14/16	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@10	ND@1	ND@100	NA
	7/14/16	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@10	ND@1	ND@100	NA
	8/1/16	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@10	ND@1	ND@100	NA
	8/16/16	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@10	ND@1	ND@100	NA
	9/3/16	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@10	ND@1	ND@100	NA
	9/16/16	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@10	ND@1	ND@100	NA
	10/4/16	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@10	ND@1	ND@100	NA
	10/17/16	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@10	ND@1	ND@100	NA
	11/1/16	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@10	ND@1	ND@100	NA
	11/21/16	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@10	ND@1	ND@100	NA
	12/16/16	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@10	ND@1	ND@100	NA
	12/31/16	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@10	ND@1	ND@100	NA
	1/11/17	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@10	ND@1	ND@100	NA
	1/27/17	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@10	ND@1	ND@100	NA
	2/10/17	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@10	ND@1	ND@100	NA
	2/28/17	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@10	ND@1	ND@100	NA
	3/16/17	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@10	ND@1	ND@100	NA
	3/29/17	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@10	ND@1	ND@100	NA
	4/7/17	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@10	ND@1	ND@100	NA
	4/24/17	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@10	ND@1	ND@100	NA

Table 1: Groundwater Analytical Results
7-Eleven Store No. 32785
Hampstead, Maryland

Sample ID	Date	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Xylenes (µg/L)	BTEX (µg/L)	MTBE (µg/L)	TBA (µg/L)	TAME (µg/L)	TPH-GRO (µg/L)	TPH-DRO (mg/L)
MW-10 (continued)	5/2/17	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@10	ND@1	ND@100	NA
	5/24/17	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@10	ND@1	ND@100	NA
	6/5/17	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@10	ND@1	ND@100	NA
	6/28/17	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@10	ND@1	ND@100	NA
	7/24/17	ND@1	ND@1	ND@1	ND@3	ND	ND@1	NA	NA	ND@100	NA
	8/24/17	ND@1	ND@1	ND@1	ND@3	ND	ND@1	NA	NA	ND@100	NA
	9/20/17	ND@1	ND@1	ND@1	ND@3	ND	ND@1	NA	NA	ND@100	NA
	10/13/17	ND@1	ND@1	ND@1	ND@3	ND	ND@1	NA	NA	ND@100	NA
	10/23/17	ND@1	ND@1	ND@1	ND@3	ND	ND@1	NA	NA	ND@100	NA
	11/8/17	ND@1	ND@1	ND@1	ND@3	ND	ND@1	NA	NA	ND@100	NA
	11/27/17	ND@1	ND@1	ND@1	ND@3	ND	ND@1	NA	NA	ND@100	NA
	12/8/17	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@10	ND@1	ND@100	NA
	12/26/17	ND@1	ND@1	ND@1	ND@3	ND	ND@1	NA	NA	ND@100	NA
	1/9/18	ND@1	ND@1	ND@1	ND@3	ND	ND@1	NA	NA	ND@100	NA
	1/25/18	ND@1	ND@1	ND@1	ND@3	ND	ND@1	NA	NA	ND@100	NA
	2/6/18	ND@1	ND@1	ND@1	ND@3	ND	ND@1	NA	NA	ND@100	NA
	2/19/18	ND@1	ND@1	ND@1	ND@3	ND	ND@1	NA	NA	ND@100	NA
	3/12/18	ND@1	ND@1	ND@1	ND@3	ND	ND@1	NA	NA	ND@100	NA
	3/26/18	ND@1	ND@1	ND@1	ND@3	ND	ND@1	ND@10	ND@1	ND@100	NA
	4/17/18	ND@1	ND@1	ND@1	ND@3	ND	ND@1	NA	NA	ND@100	NA
	4/30/18	ND@1	ND@1	ND@1	ND@3	ND	ND@1	NA	NA	ND@100	NA
	5/17/18	ND@1	ND@1	ND@1	ND@3	ND	ND@1	NA	NA	ND@100	NA

Table 1: Groundwater Analytical Results
7-Eleven Store No. 32785
Hampstead, Maryland

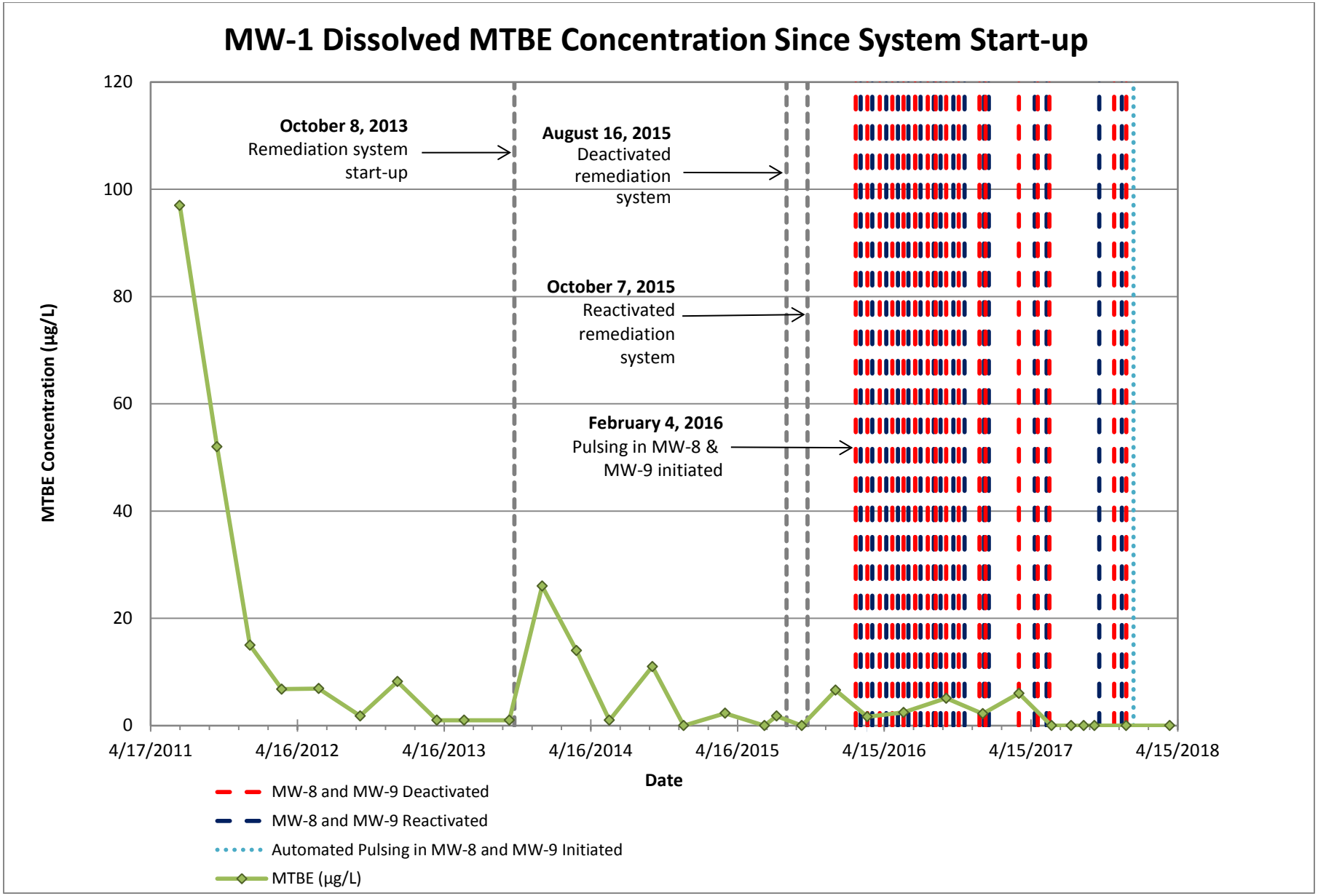
Sample ID	Date	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Xylenes (µg/L)	BTEX (µg/L)	MTBE (µg/L)	TBA (µg/L)	TAME (µg/L)	TPH-GRO (µg/L)	TPH-DRO (mg/L)
INJ-1	11/4/09	ND@1	ND@1	ND@1	ND@3	ND	**23,000**	3,600	290	**44,000**	NA
	2/26/10	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
INJ-2	11/4/09	ND@1	ND@1	ND@1	ND@3	ND	**8,900**	ND@20	140	**17,000**	NA
	2/26/10	ND@1	ND@1	ND@1	ND@3	ND	**26,000**	5,200	170	**29,000**	NA
INJ-3	11/4/09	ND@1	ND@1	ND@1	ND@3	ND	**660**	ND@20	25	**880**	NA
	2/26/10	ND@1	ND@1	ND@1	ND@3	ND	**330**	88	ND@10	**330**	NA
INJ-4	11/4/09	ND@1	ND@1	ND@1	ND@3	ND	**360**	ND@20	ND@10	**480**	NA
	2/26/10	ND@1	ND@1	ND@1	ND@3	ND	**110**	24	ND@10	**110**	NA
7-11 Potable Well	7/1/05	ND@0.5	ND@0.5	ND@0.5	ND@1.5	ND	ND@0.5	ND@5	ND@5	NA	NA
	1/25/06	ND@0.5	ND@0.5	ND@0.5	ND@1.5	ND	ND@0.5	ND@5	ND@5	NA	NA
	7/11/06	ND@0.5	ND@0.5	ND@0.5	ND@1.5	ND	ND@0.5	ND@5	ND@5	NA	NA
	1/9/07	ND@0.5	ND@0.5	ND@0.5	ND@1.5	ND	ND@0.5	ND@10	ND@10	NA	NA
	6/14/07	ND@0.5	ND@0.5	ND@0.5	ND@1.5	ND	ND@0.5	ND@0.5	ND@0.5	ND@100	ND@0.5
	11/30/07	ND@0.5	ND@0.5	ND@0.5	ND@1.5	ND	ND@0.5	ND@0.5	ND@0.5	NA	NA
	5/23/08	ND@0.5	ND@0.5	ND@0.5	ND@1.5	ND	ND@0.5	ND@0.5	ND@0.5	ND@100	ND@0.5
	8/7/08	ND@0.5	ND@0.5	ND@0.5	ND@1.5	ND	ND@0.5	ND@20	ND@5	NA	NA
	12/3/08	ND@0.5	ND@0.5	ND@0.5	ND@1.5	ND	ND@0.5	ND@20	ND@5	NA	NA
	5/12/09	ND@0.5	ND@0.5	ND@0.5	ND@1.5	ND	ND@0.5	ND@20	ND@5	NA	NA
	3/4/10	ND@0.5	ND@0.5	ND@0.5	ND@1.5	ND	ND@0.5	ND@20	ND@5	NA	NA
	8/17/10	ND@0.5	ND@0.5	ND@0.5	ND@1.5	ND	0.8	ND@20	ND@5	NA	NA
	1/4/11	ND@0.5	ND@0.5	ND@0.5	ND@1.5	ND	1.6	ND@20	ND@5	NA	NA
	1/25/11	ND@0.5	ND@0.5	ND@0.5	ND@1.5	ND	2	ND@20	ND@5	NA	NA
	6/28/11	ND@0.5	ND@0.5	ND@0.5	ND@1.5	ND	1.6	ND@20	ND@5	NA	NA
	2/17/12	ND@0.5	ND@0.5	ND@0.5	ND@1.5	ND	ND@0.5	ND@20	ND@5	NA	NA
	6/26/12	ND@0.5	ND@0.5	ND@0.5	ND@1.5	ND	1.7	ND@10	ND@0.5	NA	NA
	9/19/12	ND@0.5	ND@0.5	ND@0.5	ND@1.5	ND	ND@0.5	ND@20	ND@5	NA	NA
	9/25/13	ND@0.5	ND@0.5	ND@0.5	ND@1.5	ND	ND@0.5	ND@20	ND@5	NA	NA
	3/11/14	ND@0.5	ND@0.5	ND@0.5	ND@1.5	ND	ND@0.5	ND@20	ND@5	NA	NA
	6/9/14	NOT SAMPLED - MDE APPROVED CHANGE TO ANNUAL									
	9/16/14	ND@0.5	ND@0.5	ND@0.5	ND@1.5	ND	ND@0.5	ND@20	ND@5	NA	NA
	10/7/15	ND@0.5	ND@0.5	ND@0.5	ND@1.5	ND	ND@0.5	ND@20	ND@5	NA	NA
	9/27/16	ND@0.5	ND@0.5	ND@0.5	ND@1.5	ND	ND@0.5	ND@20	ND@5	NA	NA
	9/20/17	ND@0.5	ND@0.5	ND@0.5	ND@1.5	ND	1.02	ND@20	ND@5	NA	NA
MDE CLEANUP STD		**5**	**1,000**	**700**	**10,000**	**--**	**20**	--	--	**47**	**47**

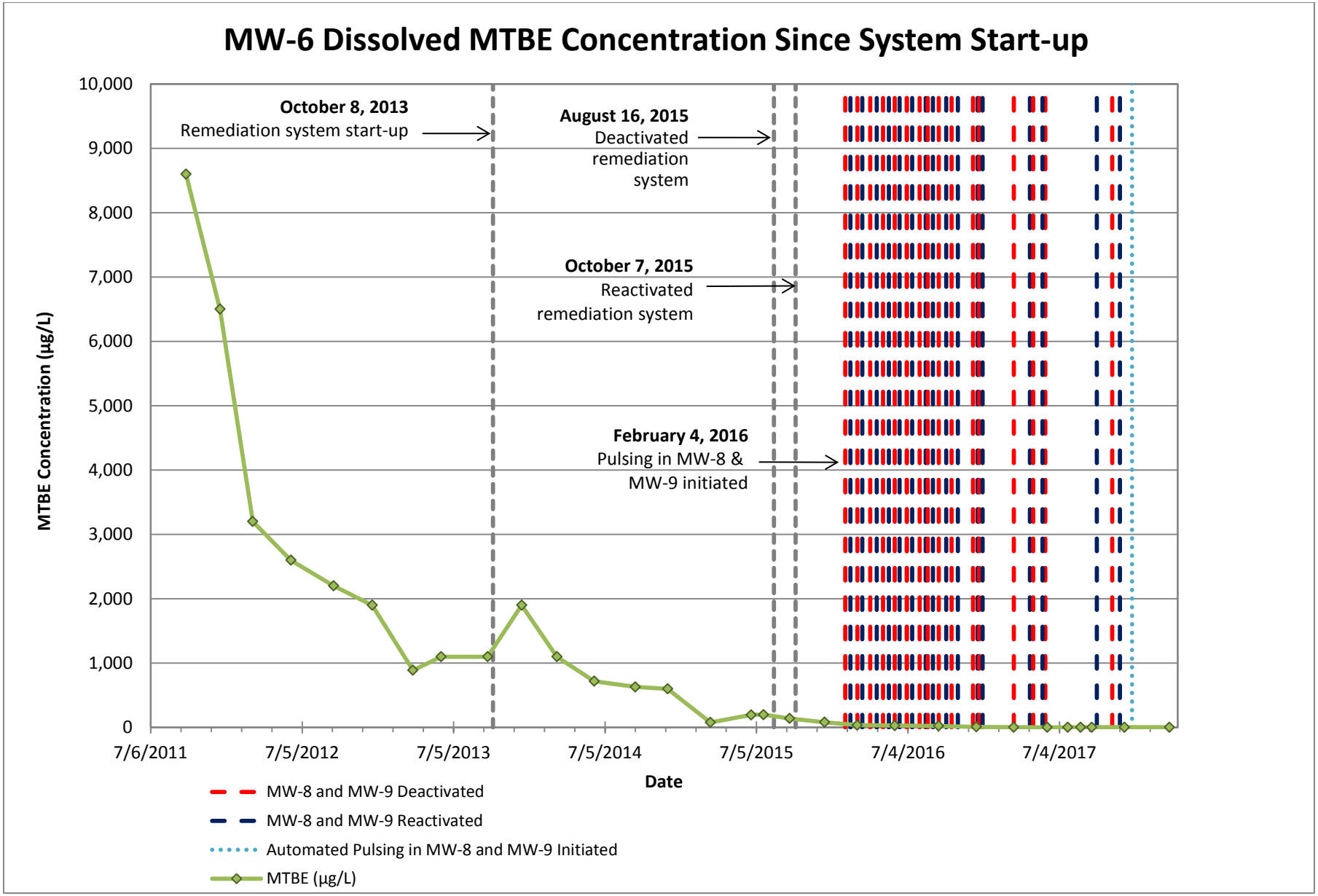
BTEX - Total Benzene, Toluene, Ethylbenzene and Xylenes
MTBE - Methyl Tert-Butyl Ether
TBA - Tert-Butyl Alcohol
TAME - Tert-Amyl Methyl Ether
µg/L - micrograms-per-liter
Bold - indicates level above the MDE Cleanup Standard

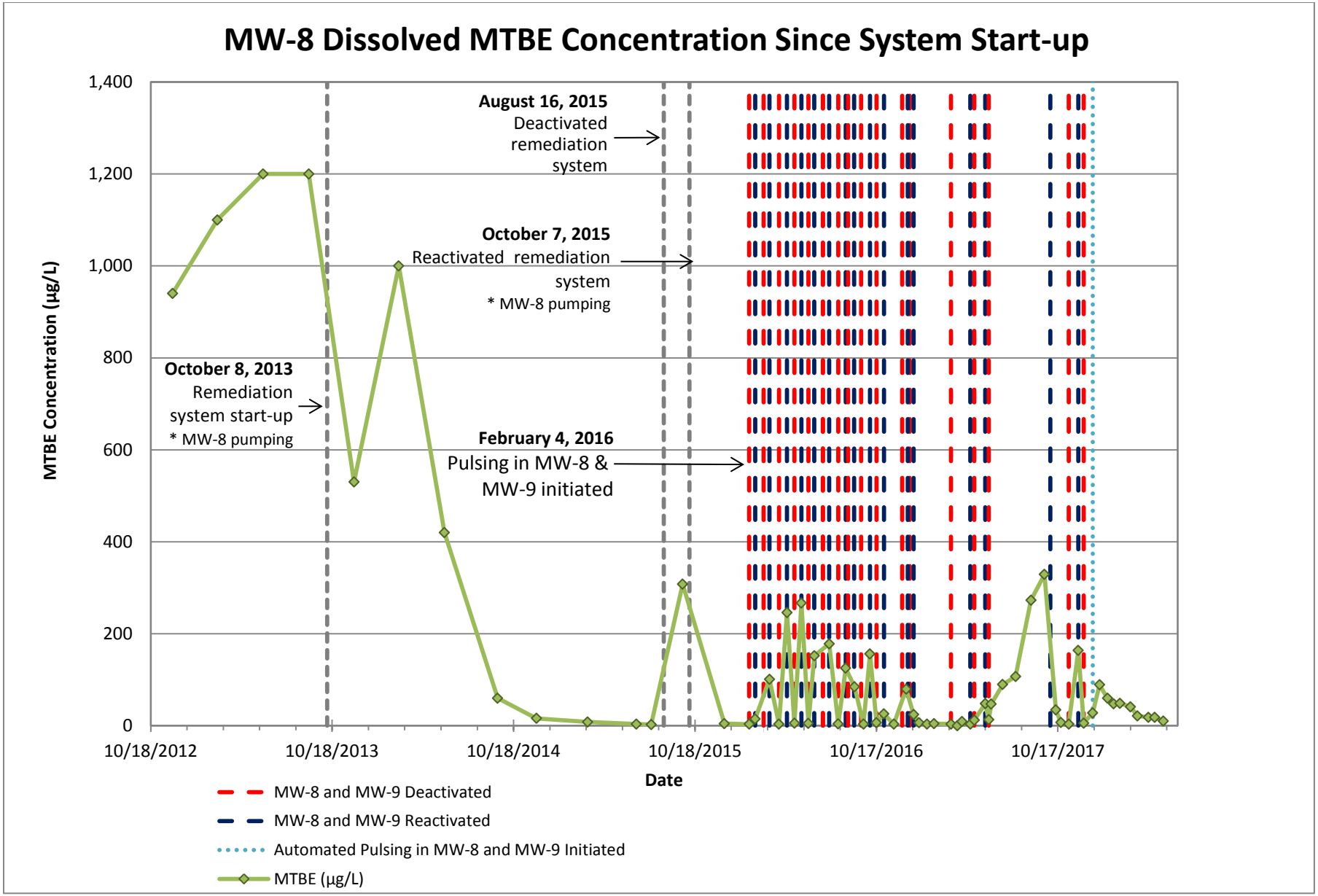
ND@x - not detected above laboratory detection level of x
ND - not detected
NI - not installed
NA - not analyzed
NS - inaccessible
E - estimated result; exceeds calibration range

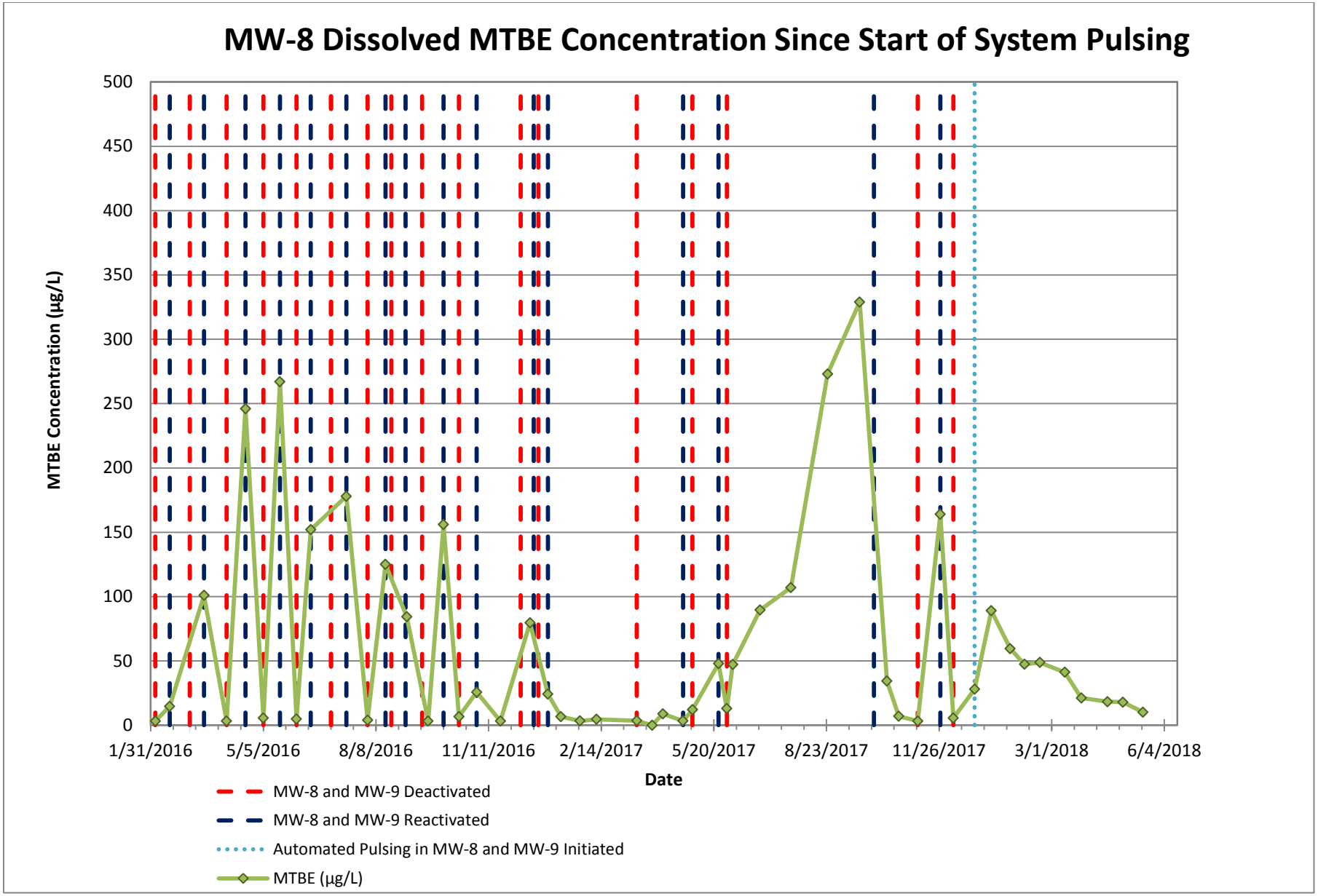
ATTACHMENT A

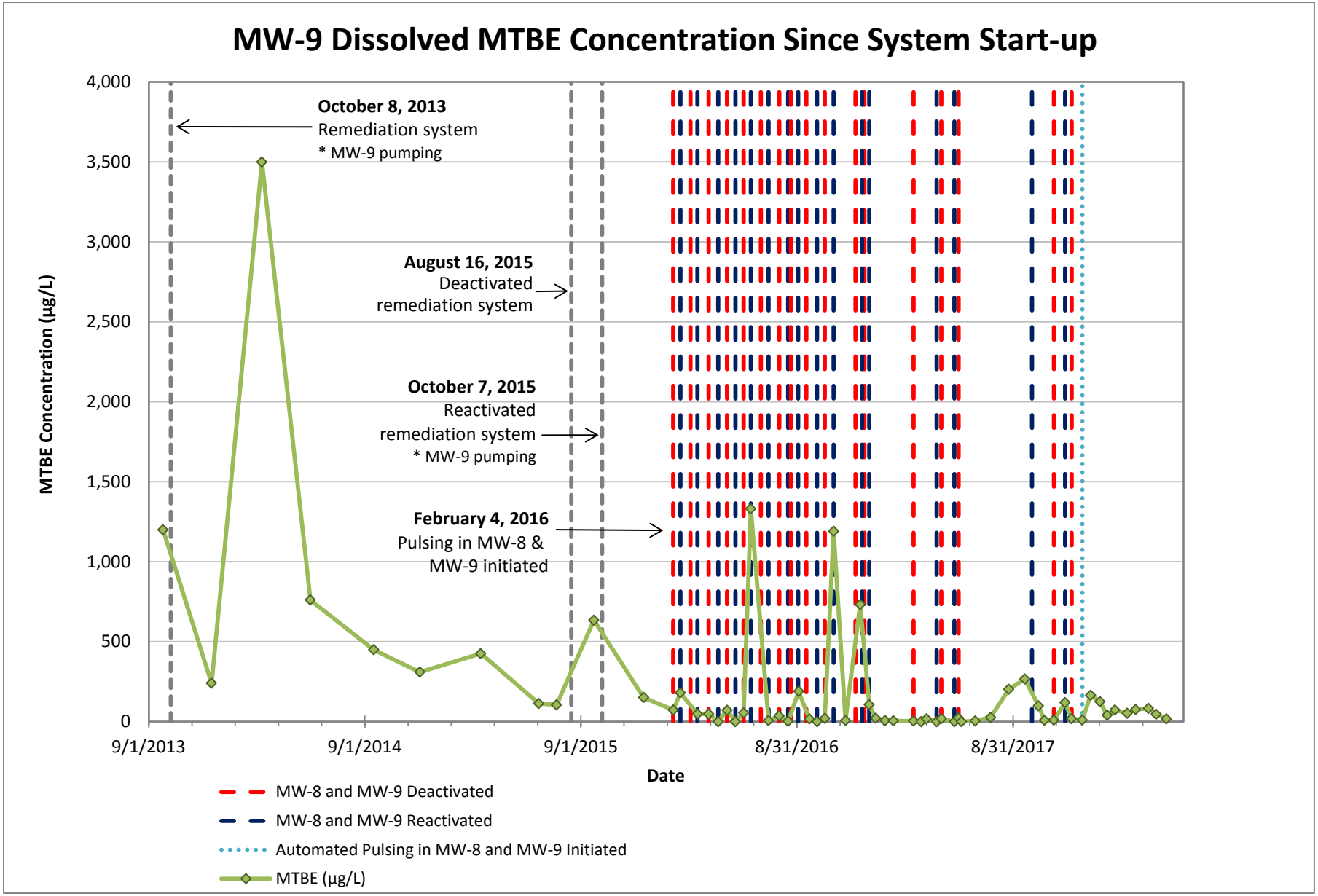
MTBE Concentration Graphs Over Time

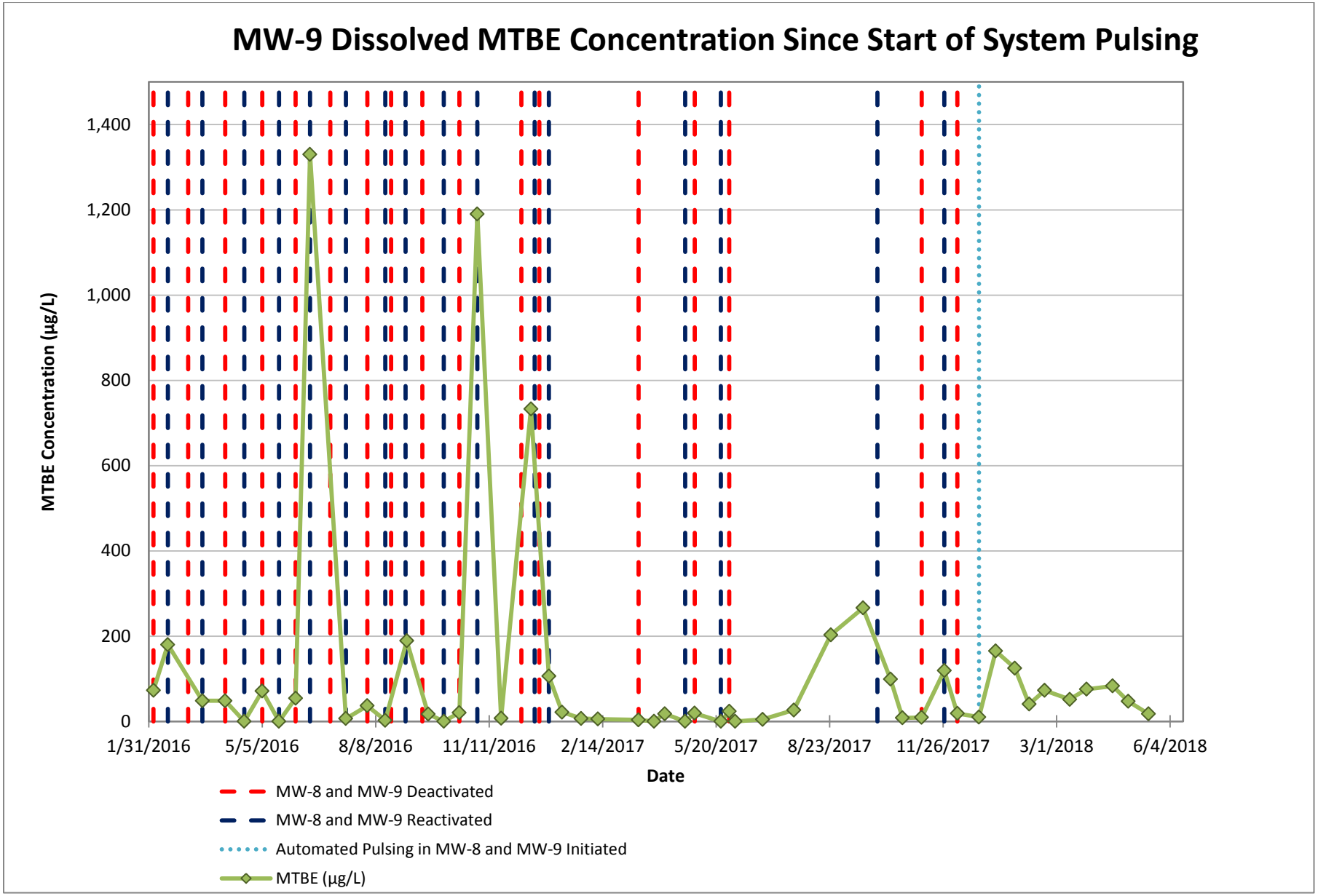

MW-1 Dissolved MTBE Concentration Since System Start-up
MTBE Concentration (µg/L)
120
100
80
60
40
20
0
4/17/2011
4/16/2012
4/16/2013
4/16/2014
4/16/2015
4/15/2016
4/15/2017
4/15/2018
Date
October 8, 2013
Remediation system start-up
August 16, 2015
Deactivated remediation system
October 7, 2015
Reactivated remediation system
February 4, 2016
Pulsing in MW-8 & MW-9 initiated
MW-8 and MW-9 Deactivated
MW-8 and MW-9 Reactivated
Automated Pulsing in MW-8 and MW-9 Initiated
MTBE (µg/L)

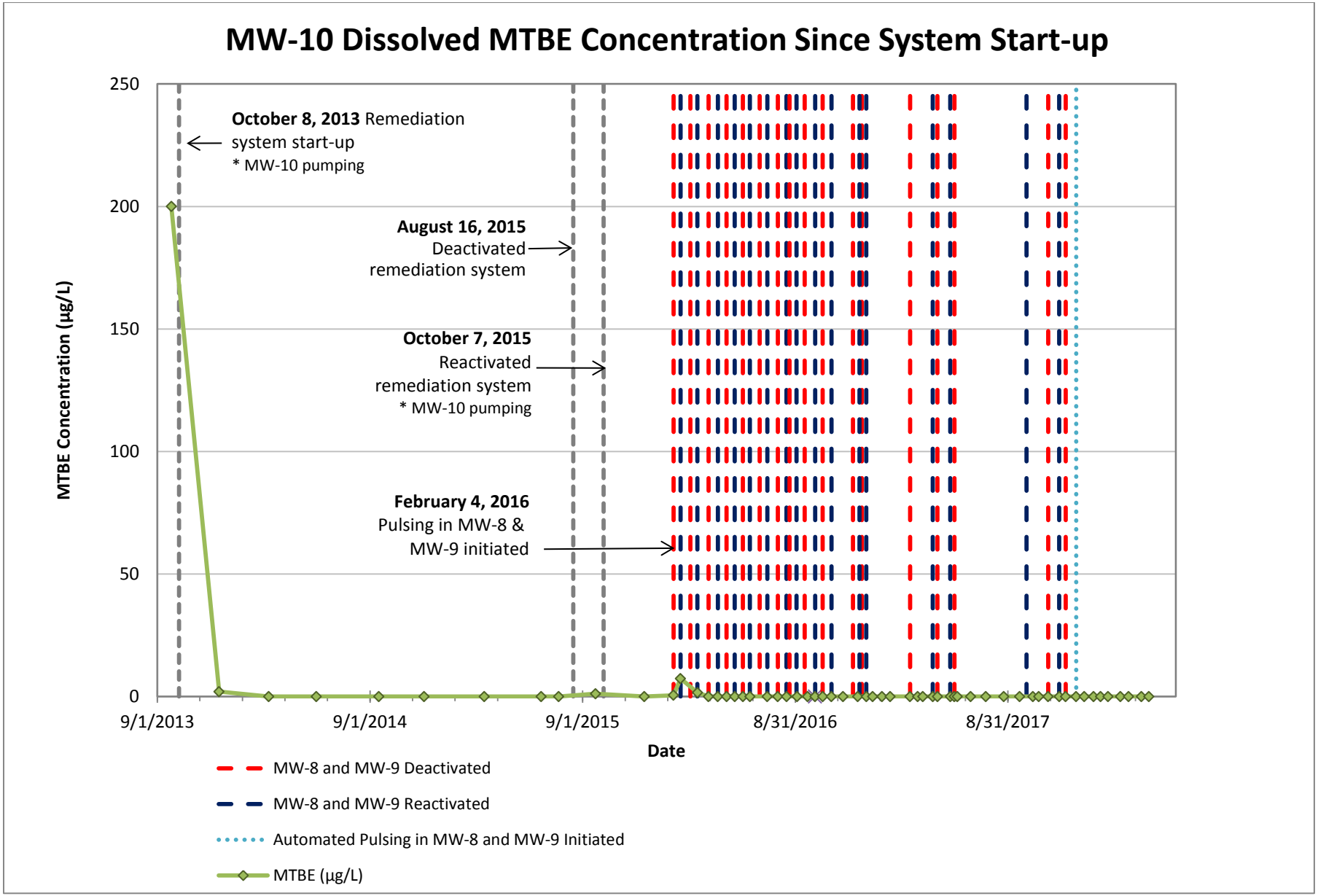

MW-6 Dissolved MTBE Concentration Since System Start-up
MTBE Concentration (µg/L)
10,000
9,000
8,000
7,000
6,000
5,000
4,000
3,000
2,000
1,000
0
7/6/2011
7/5/2012
7/5/2013
7/5/2014
7/5/2015
7/4/2016
7/4/2017
Date
October 8, 2013
Remediation system start-up
August 16, 2015
Deactivated remediation system
October 7, 2015
Reactivated remediation system
February 4, 2016
Pulsing in MW-8 & MW-9 initiated
MW-8 and MW-9 Deactivated
MW-8 and MW-9 Reactivated
Automated Pulsing in MW-8 and MW-9 Initiated
MTBE (µg/L)


MW-8 Dissolved MTBE Concentration Since System Start-up
MTBE Concentration (µg/L)
1,400
1,200
1,000
800
600
400
200
0
10/18/2012
10/18/2013
10/18/2014
10/18/2015
10/17/2016
10/17/2017
Date
August 16, 2015
Deactivated remediation system
October 7, 2015
Reactivated remediation system
* MW-8 pumping
October 8, 2013
Remediation system start-up
* MW-8 pumping
February 4, 2016
Pulsing in MW-8 & MW-9 initiated
MW-8 and MW-9 Deactivated
MW-8 and MW-9 Reactivated
Automated Pulsing in MW-8 and MW-9 Initiated
MTBE (µg/L)


MW-8 Dissolved MTBE Concentration Since Start of System Pulsing
MTBE Concentration (µg/L)
500
450
400
350
300
250
200
150
100
50
0
1/31/2016
5/5/2016
8/8/2016
11/11/2016
2/14/2017
5/20/2017
8/23/2017
11/26/2017
3/1/2018
6/4/2018
Date
MW-8 and MW-9 Deactivated
MW-8 and MW-9 Reactivated
Automated Pulsing in MW-8 and MW-9 Initiated
MTBE (µg/L)


MW-9 Dissolved MTBE Concentration Since System Start-up
MTBE Concentration (µg/L)
4,000
3,500
3,000
2,500
2,000
1,500
1,000
500
0
9/1/2013
9/1/2014
9/1/2015
8/31/2016
8/31/2017
Date
October 8, 2013
Remediation system
* MW-9 pumping
August 16, 2015
Deactivated
remediation system
October 7, 2015
Reactivated
remediation system
* MW-9 pumping
February 4, 2016
Pulsing in MW-8 &
MW-9 initiated
MW-8 and MW-9 Deactivated
MW-8 and MW-9 Reactivated
Automated Pulsing in MW-8 and MW-9 Initiated
MTBE (µg/L)


MW-9 Dissolved MTBE Concentration Since Start of System Pulsing
MTBE Concentration (µg/L)
1,400
1,200
1,000
800
600
400
200
0
1/31/2016
5/5/2016
8/8/2016
11/11/2016
2/14/2017
5/20/2017
8/23/2017
11/26/2017
3/1/2018
6/4/2018
Date
MW-8 and MW-9 Deactivated
MW-8 and MW-9 Reactivated
Automated Pulsing in MW-8 and MW-9 Initiated
MTBE (µg/L)


MW-10 Dissolved MTBE Concentration Since System Start-up
MTBE Concentration (µg/L)
250
200
150
100
50
0
9/1/2013
9/1/2014
9/1/2015
8/31/2016
8/31/2017
Date
October 8, 2013 Remediation system start-up
* MW-10 pumping
August 16, 2015
Deactivated remediation system
October 7, 2015
Reactivated remediation system
* MW-10 pumping
February 4, 2016
Pulsing in MW-8 & MW-9 initiated
MW-8 and MW-9 Deactivated
MW-8 and MW-9 Reactivated
Automated Pulsing in MW-8 and MW-9 Initiated
MTBE (µg/L)

ATTACHMENT B

Laboratory Analytical Reports

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Nashville
2960 Foster Creighton Drive
Nashville, TN 37204
Tel: (615)726-0177

TestAmerica Job ID: 490-150382-1
TestAmerica SDG: 125 Hanover Pike, Hampstead, MD
Client Project/Site: 32785.Hampstead.EL (MD)

For:
AECOM
8000 Virginia Manor Road
Suite 110
Beltsville, Maryland 20705

Attn: Mr. John Canzeri

Jennifer Huckaba

Authorized for release by:
4/26/2018 3:52:53 PM

Jennifer Huckaba, Project Manager II
(615)301-5042
jennifer.huckaba@testamericainc.com

LINKS

Review your project results through TotalAccess

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Visit us at: www.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 13
QC Association 16
Chronicle 17
Method Summary 19
Certification Summary 20
Chain of Custody 21

Sample Summary

Client: AECOM
Project/Site: 32785.Hampstead.EL (MD)

TestAmerica Job ID: 490-150382-1
SDG: 125 Hanover Pike, Hampstead, MD

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
490-150382-1	A/S INF	Water	04/17/18 16:25	04/19/18 09:35
490-150382-2	A/S EFF	Water	04/17/18 16:21	04/19/18 09:35
490-150382-3	GAC-1 EFF	Water	04/17/18 16:18	04/19/18 09:35
490-150382-4	GAC-2 FINAL	Water	04/17/18 16:15	04/19/18 09:35
490-150382-5	MW 8	Water	04/17/18 16:29	04/19/18 09:35
490-150382-6	MW 9	Water	04/17/18 16:32	04/19/18 09:35
490-150382-7	MW 10	Water	04/17/18 16:35	04/19/18 09:35

Case Narrative

Client: AECOM
Project/Site: 32785.Hampstead.EL (MD)

TestAmerica Job ID: 490-150382-1
SDG: 125 Hanover Pike, Hampstead, MD

Job ID: 490-150382-1

Laboratory: TestAmerica Nashville

Narrative

Job Narrative
490-150382-1

Comments
No additional comments.

Receipt
The samples were received on 4/19/2018 9:35 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 4.3º C.

GC/MS VOA
Method(s) 8260B: Surrogate recovery was outside acceptance limits for the following matrix spike/matrix spike duplicate (MS/MSD) sample: (490-150382-B-2 MS). The parent sample's surrogate recovery was within limits. The MS/MSD sample has been qualified and reported.

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

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

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

Definitions/Glossary

Client: AECOM
Project/Site: 32785.Hampstead.EL (MD)

TestAmerica Job ID: 490-150382-1
SDG: 125 Hanover Pike, Hampstead, MD

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
X	Surrogate is outside control limits

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
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
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)

Client Sample Results

Client: AECOM
Project/Site: 32785.Hampstead.EL (MD)

TestAmerica Job ID: 490-150382-1
SDG: 125 Hanover Pike, Hampstead, MD

Client Sample ID: A/S INF

Date Collected: 04/17/18 16:25
Date Received: 04/19/18 09:35

Lab Sample ID: 490-150382-1

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.00		ug/L			04/20/18 16:27	1
Ethylbenzene	ND		1.00		ug/L			04/20/18 16:27	1
Methyl tert-butyl ether	**9.17**		1.00		ug/L			04/20/18 16:27	1
Toluene	ND		1.00		ug/L			04/20/18 16:27	1
Xylenes, Total	ND		3.00		ug/L			04/20/18 16:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*92*		*70 - 130*		*04/20/18 16:27*	*1*
Toluene-d8 (Surr)	*92*		*70 - 130*		*04/20/18 16:27*	*1*
1,2-Dichloroethane-d4 (Surr)	*97*		*70 - 130*		*04/20/18 16:27*	*1*
4-Bromofluorobenzene (Surr)	*126*		*70 - 130*		*04/20/18 16:27*	*1*

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		100		ug/L			04/24/18 12:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*95*		*50 - 150*		*04/24/18 12:24*	*1*

Client Sample Results

Client: AECOM
Project/Site: 32785.Hampstead.EL (MD)

TestAmerica Job ID: 490-150382-1
SDG: 125 Hanover Pike, Hampstead, MD

Client Sample ID: A/S EFF

Date Collected: 04/17/18 16:21
Date Received: 04/19/18 09:35

Lab Sample ID: 490-150382-2

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.00		ug/L			04/20/18 16:54	1
Ethylbenzene	ND		1.00		ug/L			04/20/18 16:54	1
Methyl tert-butyl ether	ND		1.00		ug/L			04/20/18 16:54	1
Toluene	ND		1.00		ug/L			04/20/18 16:54	1
Xylenes, Total	ND		3.00		ug/L			04/20/18 16:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*94*		*70 - 130*		*04/20/18 16:54*	*1*
Toluene-d8 (Surr)	*91*		*70 - 130*		*04/20/18 16:54*	*1*
1,2-Dichloroethane-d4 (Surr)	*98*		*70 - 130*		*04/20/18 16:54*	*1*
4-Bromofluorobenzene (Surr)	*120*		*70 - 130*		*04/20/18 16:54*	*1*

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		100		ug/L			04/24/18 12:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*95*		*50 - 150*		*04/24/18 12:55*	*1*

Client Sample Results

Client: AECOM
Project/Site: 32785.Hampstead.EL (MD)

TestAmerica Job ID: 490-150382-1
SDG: 125 Hanover Pike, Hampstead, MD

Client Sample ID: GAC-1 EFF

Lab Sample ID: 490-150382-3

Date Collected: 04/17/18 16:18
Matrix: Water
Date Received: 04/19/18 09:35

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.00		ug/L			04/20/18 17:21	1
Ethylbenzene	ND		1.00		ug/L			04/20/18 17:21	1
Methyl tert-butyl ether	ND		1.00		ug/L			04/20/18 17:21	1
Toluene	ND		1.00		ug/L			04/20/18 17:21	1
Xylenes, Total	ND		3.00		ug/L			04/20/18 17:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*89*		*70 - 130*		*04/20/18 17:21*	*1*
Toluene-d8 (Surr)	*89*		*70 - 130*		*04/20/18 17:21*	*1*
1,2-Dichloroethane-d4 (Surr)	*97*		*70 - 130*		*04/20/18 17:21*	*1*
4-Bromofluorobenzene (Surr)	*123*		*70 - 130*		*04/20/18 17:21*	*1*

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		100		ug/L			04/24/18 13:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*94*		*50 - 150*		*04/24/18 13:26*	*1*

Client Sample Results

Client: AECOM
Project/Site: 32785.Hampstead.EL (MD)

TestAmerica Job ID: 490-150382-1
SDG: 125 Hanover Pike, Hampstead, MD

Client Sample ID: GAC-2 FINAL

Lab Sample ID: 490-150382-4

Date Collected: 04/17/18 16:15
Matrix: Water
Date Received: 04/19/18 09:35

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.00		ug/L			04/20/18 17:48	1
Ethylbenzene	ND		1.00		ug/L			04/20/18 17:48	1
Methyl tert-butyl ether	ND		1.00		ug/L			04/20/18 17:48	1
Toluene	ND		1.00		ug/L			04/20/18 17:48	1
Xylenes, Total	ND		3.00		ug/L			04/20/18 17:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*91*		*70 - 130*		*04/20/18 17:48*	*1*
Toluene-d8 (Surr)	*90*		*70 - 130*		*04/20/18 17:48*	*1*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 130*		*04/20/18 17:48*	*1*
4-Bromofluorobenzene (Surr)	*118*		*70 - 130*		*04/20/18 17:48*	*1*

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		100		ug/L			04/24/18 15:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*95*		*50 - 150*		*04/24/18 15:29*	*1*

Client Sample Results

Client: AECOM
Project/Site: 32785.Hampstead.EL (MD)

TestAmerica Job ID: 490-150382-1
SDG: 125 Hanover Pike, Hampstead, MD

Client Sample ID: MW 8

Date Collected: 04/17/18 16:29
Date Received: 04/19/18 09:35

Lab Sample ID: 490-150382-5

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.00		ug/L			04/20/18 18:15	1
Ethylbenzene	ND		1.00		ug/L			04/20/18 18:15	1
Methyl tert-butyl ether	**18.3**		1.00		ug/L			04/20/18 18:15	1
Toluene	ND		1.00		ug/L			04/20/18 18:15	1
Xylenes, Total	ND		3.00		ug/L			04/20/18 18:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*95*		*70 - 130*		*04/20/18 18:15*	*1*
Toluene-d8 (Surr)	*93*		*70 - 130*		*04/20/18 18:15*	*1*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 130*		*04/20/18 18:15*	*1*
4-Bromofluorobenzene (Surr)	*120*		*70 - 130*		*04/20/18 18:15*	*1*

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		100		ug/L			04/24/18 16:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*94*		*50 - 150*		*04/24/18 16:00*	*1*

Client Sample Results

Client: AECOM
Project/Site: 32785.Hampstead.EL (MD)

TestAmerica Job ID: 490-150382-1
SDG: 125 Hanover Pike, Hampstead, MD

Client Sample ID: MW 9

Lab Sample ID: 490-150382-6

Date Collected: 04/17/18 16:32
Date Received: 04/19/18 09:35

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.00		ug/L			04/20/18 18:41	1
Ethylbenzene	ND		1.00		ug/L			04/20/18 18:41	1
Methyl tert-butyl ether	**83.0**		1.00		ug/L			04/20/18 18:41	1
Toluene	ND		1.00		ug/L			04/20/18 18:41	1
Xylenes, Total	ND		3.00		ug/L			04/20/18 18:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*93*		*70 - 130*		*04/20/18 18:41*	*1*
Toluene-d8 (Surr)	*83*		*70 - 130*		*04/20/18 18:41*	*1*
1,2-Dichloroethane-d4 (Surr)	*102*		*70 - 130*		*04/20/18 18:41*	*1*
4-Bromofluorobenzene (Surr)	*113*		*70 - 130*		*04/20/18 18:41*	*1*

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		100		ug/L			04/24/18 16:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*95*		*50 - 150*		*04/24/18 16:31*	*1*

Client Sample Results

Client: AECOM
Project/Site: 32785.Hampstead.EL (MD)

TestAmerica Job ID: 490-150382-1
SDG: 125 Hanover Pike, Hampstead, MD

Client Sample ID: MW 10

Date Collected: 04/17/18 16:35
Date Received: 04/19/18 09:35

Lab Sample ID: 490-150382-7

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.00		ug/L			04/20/18 19:08	1
Ethylbenzene	ND		1.00		ug/L			04/20/18 19:08	1
Methyl tert-butyl ether	ND		1.00		ug/L			04/20/18 19:08	1
Toluene	ND		1.00		ug/L			04/20/18 19:08	1
Xylenes, Total	ND		3.00		ug/L			04/20/18 19:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*97*		*70 - 130*		*04/20/18 19:08*	*1*
Toluene-d8 (Surr)	*86*		*70 - 130*		*04/20/18 19:08*	*1*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 130*		*04/20/18 19:08*	*1*
4-Bromofluorobenzene (Surr)	*117*		*70 - 130*		*04/20/18 19:08*	*1*

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		100		ug/L			04/24/18 17:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*95*		*50 - 150*		*04/24/18 17:02*	*1*

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

Lab Sample ID: MB 490-509689/7
Matrix: Water
Analysis Batch: 509689

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.00		ug/L			04/20/18 15:04	1
Ethylbenzene	ND		1.00		ug/L			04/20/18 15:04	1
Methyl tert-butyl ether	ND		1.00		ug/L			04/20/18 15:04	1
Toluene	ND		1.00		ug/L			04/20/18 15:04	1
Xylenes, Total	ND		3.00		ug/L			04/20/18 15:04	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*90*		*70 - 130*		*04/20/18 15:04*	*1*
Toluene-d8 (Surr)	*88*		*70 - 130*		*04/20/18 15:04*	*1*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 130*		*04/20/18 15:04*	*1*
4-Bromofluorobenzene (Surr)	*124*		*70 - 130*		*04/20/18 15:04*	*1*

Lab Sample ID: LCS 490-509689/3
Matrix: Water
Analysis Batch: 509689

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	20.0	20.33		ug/L		102	70 - 130
Ethylbenzene	20.0	23.08		ug/L		115	70 - 130
Methyl tert-butyl ether	20.0	21.97		ug/L		110	70 - 130
Toluene	20.0	18.09		ug/L		90	70 - 130
Xylenes, Total	40.0	47.73		ug/L		119	70 - 132

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*91*		*70 - 130*
Toluene-d8 (Surr)	*89*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 130*
4-Bromofluorobenzene (Surr)	*125*		*70 - 130*

Lab Sample ID: LCSD 490-509689/4
Matrix: Water
Analysis Batch: 509689

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	20.0	21.56		ug/L		108	70 - 130	6	12
Ethylbenzene	20.0	23.03		ug/L		115	70 - 130	0	12
Methyl tert-butyl ether	20.0	22.65		ug/L		113	70 - 130	3	16
Toluene	20.0	19.89		ug/L		99	70 - 130	9	13
Xylenes, Total	40.0	46.94		ug/L		117	70 - 132	2	11

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*90*		*70 - 130*
Toluene-d8 (Surr)	*95*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*105*		*70 - 130*
4-Bromofluorobenzene (Surr)	*122*		*70 - 130*

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

Lab Sample ID: 490-150382-2 MS — **Client Sample ID: A/S EFF**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 509689

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	ND		20.0	21.73		ug/L		109	55 - 147
Ethylbenzene	ND		20.0	23.80		ug/L		119	65 - 139
Methyl tert-butyl ether	ND		20.0	21.52		ug/L		108	55 - 141
Toluene	ND		20.0	20.27		ug/L		101	64 - 136
Xylenes, Total	ND		40.0	47.91		ug/L		120	69 - 132

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*94*		*70 - 130*
Toluene-d8 (Surr)	*94*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*102*		*70 - 130*
4-Bromofluorobenzene (Surr)	*131*	*X*	*70 - 130*

Lab Sample ID: 490-150382-2 MSD — **Client Sample ID: A/S EFF**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 509689

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	ND		20.0	22.66		ug/L		113	55 - 147	4	22
Ethylbenzene	ND		20.0	25.36		ug/L		127	65 - 139	6	18
Methyl tert-butyl ether	ND		20.0	21.93		ug/L		110	55 - 141	2	24
Toluene	ND		20.0	20.79		ug/L		104	64 - 136	3	18
Xylenes, Total	ND		40.0	51.33		ug/L		128	69 - 132	7	17

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*90*		*70 - 130*
Toluene-d8 (Surr)	*90*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 130*
4-Bromofluorobenzene (Surr)	*118*		*70 - 130*

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Lab Sample ID: MB 490-510254/8 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 510254

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		100		ug/L			04/24/18 11:54	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*95*		*50 - 150*		*04/24/18 11:54*	*1*

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics) (Continued)

Lab Sample ID: LCS 490-510254/4 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 510254

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics [C6 - C10]			1000	1049		ug/L		105	66 - 140		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
a,a,a-Trifluorotoluene	*87*		*50 - 150*

Lab Sample ID: LCSD 490-510254/5 — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 510254

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics [C6 - C10]			1000	1034		ug/L		103	66 - 140	1	42

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
a,a,a-Trifluorotoluene	*88*		*50 - 150*

Lab Sample ID: 490-150382-3 MS — **Client Sample ID: GAC-1 EFF**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 510254

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics [C6 - C10]	ND		1000	881.7		ug/L		88	33 - 175		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
a,a,a-Trifluorotoluene	*98*		*50 - 150*

Lab Sample ID: 490-150382-3 MSD — **Client Sample ID: GAC-1 EFF**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 510254

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics [C6 - C10]	ND		1000	932.9		ug/L		93	33 - 175	6	42

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
a,a,a-Trifluorotoluene	*100*		*50 - 150*

QC Association Summary

Client: AECOM
Project/Site: 32785.Hampstead.EL (MD)

TestAmerica Job ID: 490-150382-1
SDG: 125 Hanover Pike, Hampstead, MD

GC/MS VOA

Analysis Batch: 509689

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-150382-1	A/S INF	Total/NA	Water	8260B	
490-150382-2	A/S EFF	Total/NA	Water	8260B	
490-150382-3	GAC-1 EFF	Total/NA	Water	8260B	
490-150382-4	GAC-2 FINAL	Total/NA	Water	8260B	
490-150382-5	MW 8	Total/NA	Water	8260B	
490-150382-6	MW 9	Total/NA	Water	8260B	
490-150382-7	MW 10	Total/NA	Water	8260B	
MB 490-509689/7	Method Blank	Total/NA	Water	8260B	
LCS 490-509689/3	Lab Control Sample	Total/NA	Water	8260B	
LCSD 490-509689/4	Lab Control Sample Dup	Total/NA	Water	8260B	
490-150382-2 MS	A/S EFF	Total/NA	Water	8260B	
490-150382-2 MSD	A/S EFF	Total/NA	Water	8260B	

GC VOA

Analysis Batch: 510254

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-150382-1	A/S INF	Total/NA	Water	8015C	
490-150382-2	A/S EFF	Total/NA	Water	8015C	
490-150382-3	GAC-1 EFF	Total/NA	Water	8015C	
490-150382-4	GAC-2 FINAL	Total/NA	Water	8015C	
490-150382-5	MW 8	Total/NA	Water	8015C	
490-150382-6	MW 9	Total/NA	Water	8015C	
490-150382-7	MW 10	Total/NA	Water	8015C	
MB 490-510254/8	Method Blank	Total/NA	Water	8015C	
LCS 490-510254/4	Lab Control Sample	Total/NA	Water	8015C	
LCSD 490-510254/5	Lab Control Sample Dup	Total/NA	Water	8015C	
490-150382-3 MS	GAC-1 EFF	Total/NA	Water	8015C	
490-150382-3 MSD	GAC-1 EFF	Total/NA	Water	8015C	

Lab Chronicle

Client: AECOM
Project/Site: 32785.Hampstead.EL (MD)

TestAmerica Job ID: 490-150382-1
SDG: 125 Hanover Pike, Hampstead, MD

Client Sample ID: A/S INF — Lab Sample ID: 490-150382-1

Date Collected: 04/17/18 16:25 — **Matrix: Water**
Date Received: 04/19/18 09:35

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	5 mL	5 mL	509689	04/20/18 16:27	JJR	TAL NSH
Total/NA	Analysis	8015C		1	5 mL	5 mL	510254	04/24/18 12:24	S1S	TAL NSH

Client Sample ID: A/S EFF — Lab Sample ID: 490-150382-2

Date Collected: 04/17/18 16:21 — **Matrix: Water**
Date Received: 04/19/18 09:35

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	5 mL	5 mL	509689	04/20/18 16:54	JJR	TAL NSH
Total/NA	Analysis	8015C		1	5 mL	5 mL	510254	04/24/18 12:55	S1S	TAL NSH

Client Sample ID: GAC-1 EFF — Lab Sample ID: 490-150382-3

Date Collected: 04/17/18 16:18 — **Matrix: Water**
Date Received: 04/19/18 09:35

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	5 mL	5 mL	509689	04/20/18 17:21	JJR	TAL NSH
Total/NA	Analysis	8015C		1	5 mL	5 mL	510254	04/24/18 13:26	S1S	TAL NSH

Client Sample ID: GAC-2 FINAL — Lab Sample ID: 490-150382-4

Date Collected: 04/17/18 16:15 — **Matrix: Water**
Date Received: 04/19/18 09:35

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	5 mL	5 mL	509689	04/20/18 17:48	JJR	TAL NSH
Total/NA	Analysis	8015C		1	5 mL	5 mL	510254	04/24/18 15:29	S1S	TAL NSH

Client Sample ID: MW 8 — Lab Sample ID: 490-150382-5

Date Collected: 04/17/18 16:29 — **Matrix: Water**
Date Received: 04/19/18 09:35

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	5 mL	5 mL	509689	04/20/18 18:15	JJR	TAL NSH
Total/NA	Analysis	8015C		1	5 mL	5 mL	510254	04/24/18 16:00	S1S	TAL NSH

Client Sample ID: MW 9 — Lab Sample ID: 490-150382-6

Date Collected: 04/17/18 16:32 — **Matrix: Water**
Date Received: 04/19/18 09:35

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	5 mL	5 mL	509689	04/20/18 18:41	JJR	TAL NSH

Lab Chronicle

Client: AECOM
Project/Site: 32785.Hampstead.EL (MD)

TestAmerica Job ID: 490-150382-1
SDG: 125 Hanover Pike, Hampstead, MD

Client Sample ID: MW 9

Lab Sample ID: 490-150382-6
Matrix: Water
Date Collected: 04/17/18 16:32
Date Received: 04/19/18 09:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015C		1	5 mL	5 mL	510254	04/24/18 16:31	S1S	TAL NSH

Client Sample ID: MW 10

Lab Sample ID: 490-150382-7
Matrix: Water
Date Collected: 04/17/18 16:35
Date Received: 04/19/18 09:35

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	5 mL	5 mL	509689	04/20/18 19:08	JJR	TAL NSH
Total/NA	Analysis	8015C		1	5 mL	5 mL	510254	04/24/18 17:02	S1S	TAL NSH

Laboratory References:

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

Method Summary

Client: AECOM
Project/Site: 32785.Hampstead.EL (MD)

TestAmerica Job ID: 490-150382-1
SDG: 125 Hanover Pike, Hampstead, MD

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL NSH
8015C	Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)	SW846	TAL NSH
5030B	Purge and Trap	SW846	TAL NSH

Protocol References:

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

Laboratory References:

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

Accreditation/Certification Summary

Client: AECOM
Project/Site: 32785.Hampstead.EL (MD)

TestAmerica Job ID: 490-150382-1
SDG: 125 Hanover Pike, Hampstead, MD

Laboratory: TestAmerica Nashville

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
Maryland	State Program	3	316	03-31-19

The following analytes are included in this report, but accreditation/certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
8015C		Water	Gasoline Range Organics [C6 - C10]
8260B		Water	Benzene
8260B		Water	Ethylbenzene
8260B		Water	Methyl tert-butyl ether
8260B		Water	Toluene
8260B		Water	Xylenes, Total

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
Nashville, TN

COOLER RECEIPT FORM

490-150382 Chain of Custody

Cooler Received/Opened On 4/19/2018 @ 0935

Time Samples Removed From Cooler 18:17 Time Samples Placed In Storage 18:18 (2 Hour Window)

1. Tracking # 9200 (last 4 digits, FedEx) Courier: FedEx

   IR Gun ID 160406069 pH Strip Lot _____ Chlorine Strip Lot _____

2. Temperature of rep. sample or temp blank when opened: 4.3 *Degrees Celsius*

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO NA

4. Were custody seals on outside of cooler? YES...NO...NA

   If yes, how many and where: 1 Front

5. Were the seals intact, signed, and dated correctly? YES...NO...NA

6. Were custody papers inside cooler? YES...NO...NA

I certify that I opened the cooler and answered questions 1-6 (intial) AOJ

7. Were custody seals on containers: YES NO and Intact YES...NO...NA

   Were these signed and dated correctly? YES...NO...NA

8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? YES...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES...NO...NA

12. Did all container labels and tags agree with custody papers? YES...NO...NA

13a. Were VOA vials received? YES...NO...NA

   b. Was there any observable headspace present in any VOA vial? YES...NO...NA

Larger than this.

14. Was there a Trip Blank in this cooler? YES...NO...NA If multiple coolers, sequence #_____

I certify that I unloaded the cooler and answered questions 7-14 (intial) 2.2

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES...NO...NA

   b. Did the bottle labels indicate that the correct preservatives were used YES...NO...NA

16. Was residual chlorine present? YES...NO...NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (intial) 2.2

17. Were custody papers properly filled out (ink, signed, etc)? YES...NO...NA

18. Did you sign the custody papers in the appropriate place? YES...NO...NA

19. Were correct containers used for the analysis requested? YES...NO...NA

20. Was sufficient amount of sample sent in each container? YES...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (intial) 2.2

I certify that I attached a label with the unique LIMS number to each container (intial) 2.2

21. Were there Non-Conformance issues at login? YES...NO Was a NCM generated? YES...NO...#_____

BIS = Broken in shipment
Cooler Receipt Form.doc

LF-1
End of Form

Revised 8/23/17

TestAmerica Nashville
2960 Foster Creighton Drive

Nashville, TN 37204-3719
phone 615.726.0177 fax 615.726.3404

Chain of Custody F

490-150382

estAmerica
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Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

estAmerica Laboratories, Inc.

Client Contact	Project Manager: John Canzeri	Site Contact:	Proj.#: 49008398 (ENFOS)	COC No:
AECOM	Tel/Fax: 301-289-3805	Lab Contact: Jennifer Huckaba	Carrier:	1 of 1 COCs
8000 Virginia Manor Rd., Suite 110	Analysis Turnaround Time			Sampler: M. Parsons
Beltsville, Maryland 20705	☐ CALENDAR DAYS ☑ WORKING DAYS			For Lab Use Only:
301-289-3900 Phone	TAT if different from Below: Standard			Walk-in Client:
301-289-3901 FAX	☐ 2 weeks			Lab Sampling:
Project Name: 32785.Hampstead.EL	☐ 1 week		180325	
Site: 125 Hanover Pike, Hampstead, MD	☐ 2 days			W.O.#: WO312107
P O #	☐ 1 day			AECOM's Job#: 60338398
			BALTIMORE	

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	BTEX + MTBE 8260B	TPH-GRO 8015C (C6-C10)	Sample Specific Notes:
A/S INF	4/17/18	1625	Grab	W	6	N	N	*	*	
A/S EFF		1621	Grab	W	6	N	N	*	*	
GAC-1 EFF		1618	Grab	W	6	N	N	*	*	
GAC-2 FINAL		1615	Grab	W	6	N	N	*	*	
MW 8		1629	Grab	W	6	N	N	*	*	
MW 9		1632	Grab	W	6	N	N	*	*	
MW 10		1635	Grab	W	6	N	N	*	*	
								2	2	

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☑ Disposal by Lab ☐ Archive for _____ Months

7-Eleven/AECOM EDD Red Voas used by client request

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:		Cooler Temp. (°C): Obs'd: _____ Corr'd: _____		Therm ID No.: _____
Relinquished by:	Company: AECOM	Date/Time: 4/18/18 1625	Received by:	Company: A	Date/Time: 4/18/18 1626
Relinquished by:	Company: A	Date/Time: 4/18/18 1626	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company: LA-NAS	Date/Time: 04/18/18 4.3

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Nashville
2960 Foster Creighton Drive
Nashville, TN 37204
Tel: (615)726-0177

TestAmerica Job ID: 490-151117-1
TestAmerica SDG: 125 Hanover Pike, Hampstead, MD
Client Project/Site: 32785.Hampstead.EL (MD)

For:
AECOM
8000 Virginia Manor Road
Suite 110
Beltsville, Maryland 20705

Attn: Mr. John Canzeri

Authorized for release by:
5/8/2018 11:05:18 AM
Leah Klingensmith, Senior Project Manager
(615)301-5038
leah.klingensmith@testamericainc.com

Designee for

Jennifer Huckaba, Project Manager II
(615)301-5042
jennifer.huckaba@testamericainc.com

LINKS

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Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

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

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

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

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Sample Summary

Client: AECOM
Project/Site: 32785.Hampstead.EL (MD)

TestAmerica Job ID: 490-151117-1
SDG: 125 Hanover Pike, Hampstead, MD

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
490-151117-1	A/S INF	Water	04/30/18 12:05	05/02/18 09:55
490-151117-2	A/S EFF	Water	04/30/18 12:00	05/02/18 09:55
490-151117-3	GAC-1 EFF	Water	04/30/18 11:55	05/02/18 09:55
490-151117-4	GAC-2 FINAL	Water	04/30/18 11:50	05/02/18 09:55
490-151117-5	MW 8	Water	04/30/18 12:20	05/02/18 09:55
490-151117-6	MW 9	Water	04/30/18 12:15	05/02/18 09:55
490-151117-7	MW 10	Water	04/30/18 12:10	05/02/18 09:55

Case Narrative

Client: AECOM
Project/Site: 32785.Hampstead.EL (MD)

TestAmerica Job ID: 490-151117-1
SDG: 125 Hanover Pike, Hampstead, MD

Job ID: 490-151117-1

Laboratory: TestAmerica Nashville

Narrative

Job Narrative
490-151117-1

Comments
No additional comments.

Receipt
The samples were received on 5/2/2018 9:55 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.4º C.

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

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

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

Definitions/Glossary

Client: AECOM
Project/Site: 32785.Hampstead.EL (MD)

TestAmerica Job ID: 490-151117-1
SDG: 125 Hanover Pike, Hampstead, MD

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.

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
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
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)

Client Sample Results

Client: AECOM
Project/Site: 32785.Hampstead.EL (MD)

TestAmerica Job ID: 490-151117-1
SDG: 125 Hanover Pike, Hampstead, MD

Client Sample ID: A/S INF

Date Collected: 04/30/18 12:05
Date Received: 05/02/18 09:55

Lab Sample ID: 490-151117-1

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.00		ug/L			05/03/18 19:25	1
Ethylbenzene	ND		1.00		ug/L			05/03/18 19:25	1
Methyl tert-butyl ether	**16.9**		1.00		ug/L			05/03/18 19:25	1
Toluene	ND		1.00		ug/L			05/03/18 19:25	1
Xylenes, Total	ND		3.00		ug/L			05/03/18 19:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*98*		*70 - 130*		*05/03/18 19:25*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*		*05/03/18 19:25*	*1*
1,2-Dichloroethane-d4 (Surr)	*97*		*70 - 130*		*05/03/18 19:25*	*1*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*		*05/03/18 19:25*	*1*

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		100		ug/L			05/03/18 11:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*93*		*50 - 150*		*05/03/18 11:17*	*1*

Client Sample Results

Client: AECOM
Project/Site: 32785.Hampstead.EL (MD)

TestAmerica Job ID: 490-151117-1
SDG: 125 Hanover Pike, Hampstead, MD

Client Sample ID: A/S EFF

Date Collected: 04/30/18 12:00
Date Received: 05/02/18 09:55

Lab Sample ID: 490-151117-2

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.00		ug/L			05/03/18 17:40	1
Ethylbenzene	ND		1.00		ug/L			05/03/18 17:40	1
Methyl tert-butyl ether	ND		1.00		ug/L			05/03/18 17:40	1
Toluene	ND	F1	1.00		ug/L			05/03/18 17:40	1
Xylenes, Total	ND		3.00		ug/L			05/03/18 17:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*94*		*70 - 130*		*05/03/18 17:40*	*1*
Toluene-d8 (Surr)	*101*		*70 - 130*		*05/03/18 17:40*	*1*
1,2-Dichloroethane-d4 (Surr)	*96*		*70 - 130*		*05/03/18 17:40*	*1*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*		*05/03/18 17:40*	*1*

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		100		ug/L			05/03/18 11:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*92*		*50 - 150*		*05/03/18 11:48*	*1*

Client Sample Results

Client: AECOM
Project/Site: 32785.Hampstead.EL (MD)

TestAmerica Job ID: 490-151117-1
SDG: 125 Hanover Pike, Hampstead, MD

Client Sample ID: GAC-1 EFF

Lab Sample ID: 490-151117-3

Date Collected: 04/30/18 11:55
Matrix: Water
Date Received: 05/02/18 09:55

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.00		ug/L			05/03/18 18:06	1
Ethylbenzene	ND		1.00		ug/L			05/03/18 18:06	1
Methyl tert-butyl ether	ND		1.00		ug/L			05/03/18 18:06	1
Toluene	ND		1.00		ug/L			05/03/18 18:06	1
Xylenes, Total	ND		3.00		ug/L			05/03/18 18:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*99*		*70 - 130*		*05/03/18 18:06*	*1*
Toluene-d8 (Surr)	*99*		*70 - 130*		*05/03/18 18:06*	*1*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 130*		*05/03/18 18:06*	*1*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*		*05/03/18 18:06*	*1*

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		100		ug/L			05/03/18 12:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*93*		*50 - 150*		*05/03/18 12:18*	*1*

Client Sample Results

Client: AECOM
Project/Site: 32785.Hampstead.EL (MD)

TestAmerica Job ID: 490-151117-1
SDG: 125 Hanover Pike, Hampstead, MD

Client Sample ID: GAC-2 FINAL

Lab Sample ID: 490-151117-4

Date Collected: 04/30/18 11:50
Matrix: Water
Date Received: 05/02/18 09:55

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.00		ug/L			05/03/18 18:33	1
Ethylbenzene	ND		1.00		ug/L			05/03/18 18:33	1
Methyl tert-butyl ether	ND		1.00		ug/L			05/03/18 18:33	1
Toluene	ND		1.00		ug/L			05/03/18 18:33	1
Xylenes, Total	ND		3.00		ug/L			05/03/18 18:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*99*		*70 - 130*		*05/03/18 18:33*	*1*
Toluene-d8 (Surr)	*101*		*70 - 130*		*05/03/18 18:33*	*1*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 130*		*05/03/18 18:33*	*1*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*		*05/03/18 18:33*	*1*

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		100		ug/L			05/03/18 14:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*94*		*50 - 150*		*05/03/18 14:22*	*1*

Client Sample Results

Client: AECOM
Project/Site: 32785.Hampstead.EL (MD)

TestAmerica Job ID: 490-151117-1
SDG: 125 Hanover Pike, Hampstead, MD

Client Sample ID: MW 8

Lab Sample ID: 490-151117-5

Date Collected: 04/30/18 12:20
Date Received: 05/02/18 09:55

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.00		ug/L			05/03/18 19:51	1
Ethylbenzene	ND		1.00		ug/L			05/03/18 19:51	1
Methyl tert-butyl ether	**18.0**		1.00		ug/L			05/03/18 19:51	1
Toluene	ND		1.00		ug/L			05/03/18 19:51	1
Xylenes, Total	ND		3.00		ug/L			05/03/18 19:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*97*		*70 - 130*		*05/03/18 19:51*	*1*
Toluene-d8 (Surr)	*101*		*70 - 130*		*05/03/18 19:51*	*1*
1,2-Dichloroethane-d4 (Surr)	*96*		*70 - 130*		*05/03/18 19:51*	*1*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*		*05/03/18 19:51*	*1*

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		100		ug/L			05/03/18 14:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*94*		*50 - 150*		*05/03/18 14:53*	*1*

Client Sample Results

Client: AECOM
Project/Site: 32785.Hampstead.EL (MD)

TestAmerica Job ID: 490-151117-1
SDG: 125 Hanover Pike, Hampstead, MD

Client Sample ID: MW 9

Lab Sample ID: 490-151117-6

Date Collected: 04/30/18 12:15
Date Received: 05/02/18 09:55

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.00		ug/L			05/03/18 20:18	1
Ethylbenzene	ND		1.00		ug/L			05/03/18 20:18	1
Methyl tert-butyl ether	**47.1**		1.00		ug/L			05/03/18 20:18	1
Toluene	ND		1.00		ug/L			05/03/18 20:18	1
Xylenes, Total	ND		3.00		ug/L			05/03/18 20:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*98*		*70 - 130*		*05/03/18 20:18*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*		*05/03/18 20:18*	*1*
1,2-Dichloroethane-d4 (Surr)	*97*		*70 - 130*		*05/03/18 20:18*	*1*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*		*05/03/18 20:18*	*1*

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		100		ug/L			05/03/18 15:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*94*		*50 - 150*		*05/03/18 15:23*	*1*

Client Sample Results

Client: AECOM
Project/Site: 32785.Hampstead.EL (MD)

TestAmerica Job ID: 490-151117-1
SDG: 125 Hanover Pike, Hampstead, MD

Client Sample ID: MW 10

Lab Sample ID: 490-151117-7

Date Collected: 04/30/18 12:10
Date Received: 05/02/18 09:55

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.00		ug/L			05/03/18 18:59	1
Ethylbenzene	ND		1.00		ug/L			05/03/18 18:59	1
Methyl tert-butyl ether	ND		1.00		ug/L			05/03/18 18:59	1
Toluene	ND		1.00		ug/L			05/03/18 18:59	1
Xylenes, Total	ND		3.00		ug/L			05/03/18 18:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*94*		*70 - 130*		*05/03/18 18:59*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*		*05/03/18 18:59*	*1*
1,2-Dichloroethane-d4 (Surr)	*93*		*70 - 130*		*05/03/18 18:59*	*1*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*		*05/03/18 18:59*	*1*

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		100		ug/L			05/03/18 15:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*93*		*50 - 150*		*05/03/18 15:54*	*1*

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

Lab Sample ID: MB 490-512502/6
Matrix: Water
Analysis Batch: 512502

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.00		ug/L			05/03/18 15:28	1
Ethylbenzene	ND		1.00		ug/L			05/03/18 15:28	1
Methyl tert-butyl ether	ND		1.00		ug/L			05/03/18 15:28	1
Toluene	ND		1.00		ug/L			05/03/18 15:28	1
Xylenes, Total	ND		3.00		ug/L			05/03/18 15:28	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*96*		*70 - 130*		*05/03/18 15:28*	*1*
Toluene-d8 (Surr)	*99*		*70 - 130*		*05/03/18 15:28*	*1*
1,2-Dichloroethane-d4 (Surr)	*96*		*70 - 130*		*05/03/18 15:28*	*1*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*		*05/03/18 15:28*	*1*

Lab Sample ID: LCS 490-512502/3
Matrix: Water
Analysis Batch: 512502

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	50.0	54.81		ug/L		110	70 - 130
Ethylbenzene	50.0	54.25		ug/L		109	70 - 130
Methyl tert-butyl ether	50.0	53.12		ug/L		106	70 - 130
Toluene	50.0	56.49		ug/L		113	70 - 130
Xylenes, Total	150	161.6		ug/L		108	70 - 132

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*98*		*70 - 130*
Toluene-d8 (Surr)	*100*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*93*		*70 - 130*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*

Lab Sample ID: LCSD 490-512502/4
Matrix: Water
Analysis Batch: 512502

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	50.0	53.09		ug/L		106	70 - 130	3	12
Ethylbenzene	50.0	52.57		ug/L		105	70 - 130	3	12
Methyl tert-butyl ether	50.0	52.33		ug/L		105	70 - 130	1	16
Toluene	50.0	54.04		ug/L		108	70 - 130	4	13
Xylenes, Total	150	156.5		ug/L		104	70 - 132	3	11

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*97*		*70 - 130*
Toluene-d8 (Surr)	*99*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*93*		*70 - 130*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*

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

Lab Sample ID: 490-151117-2 MS
Matrix: Water
Analysis Batch: 512502

Client Sample ID: A/S EFF
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	ND		50.0	58.01		ug/L		116	55 - 147
Ethylbenzene	ND		50.0	56.64		ug/L		113	65 - 139
Methyl tert-butyl ether	ND		50.0	54.21		ug/L		108	55 - 141
Toluene	ND	F1	50.0	58.40		ug/L		117	64 - 136
Xylenes, Total	ND		150	168.2		ug/L		112	69 - 132

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*97*		*70 - 130*
Toluene-d8 (Surr)	*99*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*93*		*70 - 130*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*

Lab Sample ID: 490-151117-2 MSD
Matrix: Water
Analysis Batch: 512502

Client Sample ID: A/S EFF
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	ND		50.0	68.23		ug/L		136	55 - 147	16	22
Ethylbenzene	ND		50.0	66.92		ug/L		134	65 - 139	17	18
Methyl tert-butyl ether	ND		50.0	64.40		ug/L		129	55 - 141	17	24
Toluene	ND	F1	50.0	68.94	F1	ug/L		138	64 - 136	17	18
Xylenes, Total	ND		150	197.4		ug/L		132	69 - 132	16	17

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*97*		*70 - 130*
Toluene-d8 (Surr)	*100*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*93*		*70 - 130*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Lab Sample ID: MB 490-512373/7
Matrix: Water
Analysis Batch: 512373

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		100		ug/L			05/03/18 10:46	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*93*		*50 - 150*		*05/03/18 10:46*	*1*

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics) (Continued)

Lab Sample ID: LCS 490-512373/4 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 512373

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics [C6 - C10]			1000	970.4		ug/L		97	66 - 140		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
a,a,a-Trifluorotoluene	*85*		*50 - 150*

Lab Sample ID: LCSD 490-512373/5 — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 512373

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics [C6 - C10]			1000	940.5		ug/L		94	66 - 140	3	42

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
a,a,a-Trifluorotoluene	*84*		*50 - 150*

Lab Sample ID: 490-151117-3 MS — **Client Sample ID: GAC-1 EFF**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 512373

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics [C6 - C10]	ND		1000	944.4		ug/L		94	33 - 175		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
a,a,a-Trifluorotoluene	*83*		*50 - 150*

Lab Sample ID: 490-151117-3 MSD — **Client Sample ID: GAC-1 EFF**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 512373

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics [C6 - C10]	ND		1000	961.6		ug/L		96	33 - 175	2	42

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
a,a,a-Trifluorotoluene	*85*		*50 - 150*

QC Association Summary

Client: AECOM
Project/Site: 32785.Hampstead.EL (MD)

TestAmerica Job ID: 490-151117-1
SDG: 125 Hanover Pike, Hampstead, MD

GC/MS VOA

Analysis Batch: 512502

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-151117-1	A/S INF	Total/NA	Water	8260B	
490-151117-2	A/S EFF	Total/NA	Water	8260B	
490-151117-3	GAC-1 EFF	Total/NA	Water	8260B	
490-151117-4	GAC-2 FINAL	Total/NA	Water	8260B	
490-151117-5	MW 8	Total/NA	Water	8260B	
490-151117-6	MW 9	Total/NA	Water	8260B	
490-151117-7	MW 10	Total/NA	Water	8260B	
MB 490-512502/6	Method Blank	Total/NA	Water	8260B	
LCS 490-512502/3	Lab Control Sample	Total/NA	Water	8260B	
LCSD 490-512502/4	Lab Control Sample Dup	Total/NA	Water	8260B	
490-151117-2 MS	A/S EFF	Total/NA	Water	8260B	
490-151117-2 MSD	A/S EFF	Total/NA	Water	8260B	

GC VOA

Analysis Batch: 512373

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-151117-1	A/S INF	Total/NA	Water	8015C	
490-151117-2	A/S EFF	Total/NA	Water	8015C	
490-151117-3	GAC-1 EFF	Total/NA	Water	8015C	
490-151117-4	GAC-2 FINAL	Total/NA	Water	8015C	
490-151117-5	MW 8	Total/NA	Water	8015C	
490-151117-6	MW 9	Total/NA	Water	8015C	
490-151117-7	MW 10	Total/NA	Water	8015C	
MB 490-512373/7	Method Blank	Total/NA	Water	8015C	
LCS 490-512373/4	Lab Control Sample	Total/NA	Water	8015C	
LCSD 490-512373/5	Lab Control Sample Dup	Total/NA	Water	8015C	
490-151117-3 MS	GAC-1 EFF	Total/NA	Water	8015C	
490-151117-3 MSD	GAC-1 EFF	Total/NA	Water	8015C	

Lab Chronicle

Client: AECOM
Project/Site: 32785.Hampstead.EL (MD)

TestAmerica Job ID: 490-151117-1
SDG: 125 Hanover Pike, Hampstead, MD

Client Sample ID: A/S INF — Lab Sample ID: 490-151117-1

Date Collected: 04/30/18 12:05
Date Received: 05/02/18 09:55
Matrix: Water

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	512502	05/03/18 19:25	SW1	TAL NSH
Total/NA	Analysis	8015C		1	5 mL	5 mL	512373	05/03/18 11:17	S1S	TAL NSH

Client Sample ID: A/S EFF — Lab Sample ID: 490-151117-2

Date Collected: 04/30/18 12:00
Date Received: 05/02/18 09:55
Matrix: Water

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	512502	05/03/18 17:40	SW1	TAL NSH
Total/NA	Analysis	8015C		1	5 mL	5 mL	512373	05/03/18 11:48	S1S	TAL NSH

Client Sample ID: GAC-1 EFF — Lab Sample ID: 490-151117-3

Date Collected: 04/30/18 11:55
Date Received: 05/02/18 09:55
Matrix: Water

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	512502	05/03/18 18:06	SW1	TAL NSH
Total/NA	Analysis	8015C		1	5 mL	5 mL	512373	05/03/18 12:18	S1S	TAL NSH

Client Sample ID: GAC-2 FINAL — Lab Sample ID: 490-151117-4

Date Collected: 04/30/18 11:50
Date Received: 05/02/18 09:55
Matrix: Water

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	512502	05/03/18 18:33	SW1	TAL NSH
Total/NA	Analysis	8015C		1	5 mL	5 mL	512373	05/03/18 14:22	S1S	TAL NSH

Client Sample ID: MW 8 — Lab Sample ID: 490-151117-5

Date Collected: 04/30/18 12:20
Date Received: 05/02/18 09:55
Matrix: Water

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	512502	05/03/18 19:51	SW1	TAL NSH
Total/NA	Analysis	8015C		1	5 mL	5 mL	512373	05/03/18 14:53	S1S	TAL NSH

Client Sample ID: MW 9 — Lab Sample ID: 490-151117-6

Date Collected: 04/30/18 12:15
Date Received: 05/02/18 09:55
Matrix: Water

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	512502	05/03/18 20:18	SW1	TAL NSH

Lab Chronicle

Client: AECOM
Project/Site: 32785.Hampstead.EL (MD)

TestAmerica Job ID: 490-151117-1
SDG: 125 Hanover Pike, Hampstead, MD

Client Sample ID: MW 9

Lab Sample ID: 490-151117-6
Date Collected: 04/30/18 12:15
Matrix: Water
Date Received: 05/02/18 09:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015C		1	5 mL	5 mL	512373	05/03/18 15:23	S1S	TAL NSH

Client Sample ID: MW 10

Lab Sample ID: 490-151117-7
Date Collected: 04/30/18 12:10
Matrix: Water
Date Received: 05/02/18 09:55

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	512502	05/03/18 18:59	SW1	TAL NSH
Total/NA	Analysis	8015C		1	5 mL	5 mL	512373	05/03/18 15:54	S1S	TAL NSH

Laboratory References:

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

Method Summary

Client: AECOM
Project/Site: 32785.Hampstead.EL (MD)

TestAmerica Job ID: 490-151117-1
SDG: 125 Hanover Pike, Hampstead, MD

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL NSH
8015C	Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)	SW846	TAL NSH
5030B	Purge and Trap	SW846	TAL NSH

Protocol References:

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

Laboratory References:

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

Accreditation/Certification Summary

Client: AECOM
Project/Site: 32785.Hampstead.EL (MD)

TestAmerica Job ID: 490-151117-1
SDG: 125 Hanover Pike, Hampstead, MD

Laboratory: TestAmerica Nashville

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
Maryland	State Program	3	316	03-31-19

The following analytes are included in this report, but accreditation/certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
8015C		Water	Gasoline Range Organics [C6 - C10]
8260B		Water	Benzene
8260B		Water	Ethylbenzene
8260B		Water	Methyl tert-butyl ether
8260B		Water	Toluene
8260B		Water	Xylenes, Total

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
Nashville, TN

490-151117 Chain of Custody

COOLER RECEIPT FORM

Cooler Received/Opened On 5/2/2018 @ 0955

Time Samples Removed From Cooler 1712 Time Samples Placed In Storage 1721 (2 Hour Window)

1. Tracking # 9947 (last 4 digits, FedEx) Courier: FedEx

   IR Gun ID 17960358 pH Strip Lot N/A Chlorine Strip Lot N/A

2. Temperature of rep. sample or temp blank when opened: 2.4 *Degrees Celsius*

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO...NA

4. Were custody seals on outside of cooler? YES...NO...NA

   If yes, how many and where: 1 front

5. Were the seals intact, signed, and dated correctly? YES...NO...NA

6. Were custody papers inside cooler? YES...NO...NA

I certify that I opened the cooler and answered questions 1-6 (intial) GH

7. Were custody seals on containers: YES NO and Intact YES...NO...NA

   Were these signed and dated correctly? YES...NO...NA

8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? YES...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES...NO...NA

12. Did all container labels and tags agree with custody papers? YES...NO...NA

13a. Were VOA vials received? YES...NO...NA

   b. Was there any observable headspace present in any VOA vial? YES...NO...NA

Larger than this.

14. Was there a Trip Blank in this cooler? YES...NO...NA If multiple coolers, sequence #_____

I certify that I unloaded the cooler and answered questions 7-14 (intial) AOT

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES...NO...NA

   b. Did the bottle labels indicate that the correct preservatives were used YES...NO...NA

16. Was residual chlorine present? YES...NO...NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (intial) AOT

17. Were custody papers properly filled out (ink, signed, etc)? YES...NO...NA

18. Did you sign the custody papers in the appropriate place? YES...NO...NA

19. Were correct containers used for the analysis requested? YES...NO...NA

20. Was sufficient amount of sample sent in each container? YES...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (intial) AOT

I certify that I attached a label with the unique LIMS number to each container (intial) AOT

21. Were there Non-Conformance issues at login? YES...NO Was a NCM generated? YES...NO...#_____

BIS = Broken in shipment
Cooler Receipt Form.doc

LF-1
End of Form

Revised 8/23/17

34

TestAmerica Nashville
2960 Foster Creighton Drive

Nashville, TN 37204-3719
phone 615.726.0177 fax 615.726.3404

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: John Canzeri	Site Contact:	Proj.#: 49008398 (ENFOS)	COC No:
AECOM	Tel/Fax: 301-289-3805	Lab Contact: Jennifer Huckaba	Carrier:	1 of 1 COCs
8000 Virginia Manor Rd., Suite 110	Analysis Turnaround Time			Sampler:
Beltsville, Maryland 20705	☐ CALENDAR DAYS ☑ WORKING DAYS			For Lab Use Only:
301-289-3900 Phone	TAT if different from Below: Standard			Walk-in Client:
301-289-3901 FAX	☐ 2 weeks			Lab Sampling:
Project Name: 32785.Hampstead.EL	☐ 1 week			
Site: 125 Hanover Pike, Hampstead, MD	☐ 2 days			W.O.#: WO312107
P O #	☐ 1 day			AECOM's Job#: 60338398

180325
BALTIMORE

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	BTEX + MTBE 8260B	TPH-GRO 8015C (C6-C10)	Sample Specific Notes:
A/S INF	3/30/18	1205	Grab	W	6	N	N	*	*	
A/S EFF		1200	Grab	W	6	N	N	*	*	
GAC-1 EFF		1155	Grab	W	6	N	N	*	*	Loc: 490
GAC-2 FINAL		1150	Grab	W	6	N	N	*	*	151117
MW 8		1220	Grab	W	6	N	N	*	*	
MW 9		1215	Grab	W	6	N	N	*	*	
MW 10		1210	Grab	W	6	N	N	*	*	
Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____								2	2	

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☑ Disposal by Lab ☐ Archive for _____ Months

7-Eleven/AECOM EDD

Used Red-cap VOAs at clients request

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temp. (°C): Obs'd: 2.4 Corr'd: _____ | Therm ID No.: _____

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
(Parsons)	AECOM	3/1/18 934		TA	5/1/2018 9:31
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
				TA-NAS	5/2/18 0955
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

5/8/2018

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Nashville
2960 Foster Creighton Drive
Nashville, TN 37204
Tel: (615)726-0177

TestAmerica Job ID: 490-152316-1
TestAmerica SDG: 125 Hanover Pike, Hampstead, MD
Client Project/Site: 32785.Hampstead.EL (MD)

For:
AECOM
8000 Virginia Manor Road
Suite 110
Beltsville, Maryland 20705

Attn: Mr. John Canzeri

Jennifer Huckaba

Authorized for release by:
5/29/2018 5:42:03 PM

Jennifer Huckaba, Project Manager II
(615)301-5042
jennifer.huckaba@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

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

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

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

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Sample Summary

Client: AECOM
Project/Site: 32785.Hampstead.EL (MD)

TestAmerica Job ID: 490-152316-1
SDG: 125 Hanover Pike, Hampstead, MD

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
490-152316-1	A/S INF	Water	05/17/18 15:10	05/19/18 09:50
490-152316-2	A/S EFF	Water	05/17/18 15:05	05/19/18 09:50
490-152316-3	GAC-1 EFF	Water	05/17/18 15:00	05/19/18 09:50
490-152316-4	GAC-2 FINAL	Water	05/17/18 14:45	05/19/18 09:50
490-152316-5	MW 8	Water	05/17/18 15:20	05/19/18 09:50
490-152316-6	MW 9	Water	05/17/18 15:25	05/19/18 09:50
490-152316-7	MW 10	Water	05/17/18 15:30	05/19/18 09:50

Case Narrative

Client: AECOM
Project/Site: 32785.Hampstead.EL (MD)

TestAmerica Job ID: 490-152316-1
SDG: 125 Hanover Pike, Hampstead, MD

Job ID: 490-152316-1

Laboratory: TestAmerica Nashville

Narrative

Job Narrative
490-152316-1

Comments
No additional comments.

Receipt
The samples were received on 5/19/2018 9:50 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.2º C.

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

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

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

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
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
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)

Client Sample Results

Client: AECOM
Project/Site: 32785.Hampstead.EL (MD)

TestAmerica Job ID: 490-152316-1
SDG: 125 Hanover Pike, Hampstead, MD

Client Sample ID: A/S INF

Date Collected: 05/17/18 15:10
Date Received: 05/19/18 09:50

Lab Sample ID: 490-152316-1

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.00		ug/L			05/23/18 04:02	1
Ethylbenzene	ND		1.00		ug/L			05/23/18 04:02	1
Methyl tert-butyl ether	**3.52**		1.00		ug/L			05/23/18 04:02	1
Toluene	ND		1.00		ug/L			05/23/18 04:02	1
Xylenes, Total	ND		3.00		ug/L			05/23/18 04:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*103*		*70 - 130*		*05/23/18 04:02*	*1*
Toluene-d8 (Surr)	*96*		*70 - 130*		*05/23/18 04:02*	*1*
1,2-Dichloroethane-d4 (Surr)	*109*		*70 - 130*		*05/23/18 04:02*	*1*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*		*05/23/18 04:02*	*1*

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		100		ug/L			05/21/18 18:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*112*		*50 - 150*		*05/21/18 18:26*	*1*

Client Sample Results

Client: AECOM
Project/Site: 32785.Hampstead.EL (MD)

TestAmerica Job ID: 490-152316-1
SDG: 125 Hanover Pike, Hampstead, MD

Client Sample ID: A/S EFF

Date Collected: 05/17/18 15:05
Date Received: 05/19/18 09:50

Lab Sample ID: 490-152316-2

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.00		ug/L			05/23/18 04:29	1
Ethylbenzene	ND		1.00		ug/L			05/23/18 04:29	1
Methyl tert-butyl ether	ND		1.00		ug/L			05/23/18 04:29	1
Toluene	ND		1.00		ug/L			05/23/18 04:29	1
Xylenes, Total	ND		3.00		ug/L			05/23/18 04:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*104*		*70 - 130*		*05/23/18 04:29*	*1*
Toluene-d8 (Surr)	*117*		*70 - 130*		*05/23/18 04:29*	*1*
1,2-Dichloroethane-d4 (Surr)	*108*		*70 - 130*		*05/23/18 04:29*	*1*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*		*05/23/18 04:29*	*1*

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		100		ug/L			05/21/18 19:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*110*		*50 - 150*		*05/21/18 19:02*	*1*

Client Sample Results

Client: AECOM
Project/Site: 32785.Hampstead.EL (MD)

TestAmerica Job ID: 490-152316-1
SDG: 125 Hanover Pike, Hampstead, MD

Client Sample ID: GAC-1 EFF

Lab Sample ID: 490-152316-3

Date Collected: 05/17/18 15:00
Matrix: Water
Date Received: 05/19/18 09:50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.00		ug/L			05/23/18 04:56	1
Ethylbenzene	ND		1.00		ug/L			05/23/18 04:56	1
Methyl tert-butyl ether	ND		1.00		ug/L			05/23/18 04:56	1
Toluene	ND		1.00		ug/L			05/23/18 04:56	1
Xylenes, Total	ND		3.00		ug/L			05/23/18 04:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*102*		*70 - 130*		*05/23/18 04:56*	*1*
Toluene-d8 (Surr)	*112*		*70 - 130*		*05/23/18 04:56*	*1*
1,2-Dichloroethane-d4 (Surr)	*108*		*70 - 130*		*05/23/18 04:56*	*1*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*		*05/23/18 04:56*	*1*

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		100		ug/L			05/21/18 19:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*112*		*50 - 150*		*05/21/18 19:37*	*1*

Client Sample Results

Client: AECOM
Project/Site: 32785.Hampstead.EL (MD)

TestAmerica Job ID: 490-152316-1
SDG: 125 Hanover Pike, Hampstead, MD

Client Sample ID: GAC-2 FINAL

Lab Sample ID: 490-152316-4

Date Collected: 05/17/18 14:45
Matrix: Water
Date Received: 05/19/18 09:50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.00		ug/L			05/23/18 05:22	1
Ethylbenzene	ND		1.00		ug/L			05/23/18 05:22	1
Methyl tert-butyl ether	ND		1.00		ug/L			05/23/18 05:22	1
Toluene	ND		1.00		ug/L			05/23/18 05:22	1
Xylenes, Total	ND		3.00		ug/L			05/23/18 05:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*100*		*70 - 130*		*05/23/18 05:22*	*1*
Toluene-d8 (Surr)	*118*		*70 - 130*		*05/23/18 05:22*	*1*
1,2-Dichloroethane-d4 (Surr)	*105*		*70 - 130*		*05/23/18 05:22*	*1*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*		*05/23/18 05:22*	*1*

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		100		ug/L			05/21/18 21:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*111*		*50 - 150*		*05/21/18 21:59*	*1*

Client Sample Results

Client: AECOM
Project/Site: 32785.Hampstead.EL (MD)

TestAmerica Job ID: 490-152316-1
SDG: 125 Hanover Pike, Hampstead, MD

Client Sample ID: MW 8

Date Collected: 05/17/18 15:20
Date Received: 05/19/18 09:50

Lab Sample ID: 490-152316-5

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.00		ug/L			05/23/18 05:49	1
Ethylbenzene	ND		1.00		ug/L			05/23/18 05:49	1
Methyl tert-butyl ether	**10.2**		1.00		ug/L			05/23/18 05:49	1
Toluene	ND		1.00		ug/L			05/23/18 05:49	1
Xylenes, Total	ND		3.00		ug/L			05/23/18 05:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*102*		*70 - 130*		*05/23/18 05:49*	*1*
Toluene-d8 (Surr)	*123*		*70 - 130*		*05/23/18 05:49*	*1*
1,2-Dichloroethane-d4 (Surr)	*107*		*70 - 130*		*05/23/18 05:49*	*1*
4-Bromofluorobenzene (Surr)	*113*		*70 - 130*		*05/23/18 05:49*	*1*

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		100		ug/L			05/21/18 22:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*111*		*50 - 150*		*05/21/18 22:34*	*1*

Client Sample Results

Client: AECOM
Project/Site: 32785.Hampstead.EL (MD)

TestAmerica Job ID: 490-152316-1
SDG: 125 Hanover Pike, Hampstead, MD

Client Sample ID: MW 9

Lab Sample ID: 490-152316-6

Date Collected: 05/17/18 15:25
Date Received: 05/19/18 09:50

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.00		ug/L			05/23/18 06:16	1
Ethylbenzene	ND		1.00		ug/L			05/23/18 06:16	1
Methyl tert-butyl ether	**17.5**		1.00		ug/L			05/23/18 06:16	1
Toluene	ND		1.00		ug/L			05/23/18 06:16	1
Xylenes, Total	ND		3.00		ug/L			05/23/18 06:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*105*		*70 - 130*		*05/23/18 06:16*	*1*
Toluene-d8 (Surr)	*122*		*70 - 130*		*05/23/18 06:16*	*1*
1,2-Dichloroethane-d4 (Surr)	*106*		*70 - 130*		*05/23/18 06:16*	*1*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*		*05/23/18 06:16*	*1*

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		100		ug/L			05/21/18 23:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*112*		*50 - 150*		*05/21/18 23:09*	*1*

Client Sample Results

Client: AECOM
Project/Site: 32785.Hampstead.EL (MD)

TestAmerica Job ID: 490-152316-1
SDG: 125 Hanover Pike, Hampstead, MD

Client Sample ID: MW 10

Date Collected: 05/17/18 15:30
Date Received: 05/19/18 09:50

Lab Sample ID: 490-152316-7

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.00		ug/L			05/23/18 06:42	1
Ethylbenzene	ND		1.00		ug/L			05/23/18 06:42	1
Methyl tert-butyl ether	ND		1.00		ug/L			05/23/18 06:42	1
Toluene	ND		1.00		ug/L			05/23/18 06:42	1
Xylenes, Total	ND		3.00		ug/L			05/23/18 06:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*103*		*70 - 130*		*05/23/18 06:42*	*1*
Toluene-d8 (Surr)	*116*		*70 - 130*		*05/23/18 06:42*	*1*
1,2-Dichloroethane-d4 (Surr)	*106*		*70 - 130*		*05/23/18 06:42*	*1*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*		*05/23/18 06:42*	*1*

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		100		ug/L			05/21/18 23:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*113*		*50 - 150*		*05/21/18 23:45*	*1*

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

Lab Sample ID: MB 490-516800/7
Matrix: Water
Analysis Batch: 516800

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.00		ug/L			05/23/18 02:16	1
Ethylbenzene	ND		1.00		ug/L			05/23/18 02:16	1
Methyl tert-butyl ether	ND		1.00		ug/L			05/23/18 02:16	1
Toluene	ND		1.00		ug/L			05/23/18 02:16	1
Xylenes, Total	ND		3.00		ug/L			05/23/18 02:16	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*104*		*70 - 130*		*05/23/18 02:16*	*1*
Toluene-d8 (Surr)	*115*		*70 - 130*		*05/23/18 02:16*	*1*
1,2-Dichloroethane-d4 (Surr)	*107*		*70 - 130*		*05/23/18 02:16*	*1*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*		*05/23/18 02:16*	*1*

Lab Sample ID: LCS 490-516800/3
Matrix: Water
Analysis Batch: 516800

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	20.0	18.52		ug/L		93	70 - 130
Ethylbenzene	20.0	20.05		ug/L		100	70 - 130
Methyl tert-butyl ether	20.0	18.77		ug/L		94	70 - 130
Toluene	20.0	19.28		ug/L		96	70 - 130
Xylenes, Total	40.0	40.49		ug/L		101	70 - 132

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*106*		*70 - 130*
Toluene-d8 (Surr)	*105*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*110*		*70 - 130*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*

Lab Sample ID: LCSD 490-516800/4
Matrix: Water
Analysis Batch: 516800

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	20.0	19.94		ug/L		100	70 - 130	7	12
Ethylbenzene	20.0	21.24		ug/L		106	70 - 130	6	12
Methyl tert-butyl ether	20.0	19.47		ug/L		97	70 - 130	4	16
Toluene	20.0	20.20		ug/L		101	70 - 130	5	13
Xylenes, Total	40.0	43.28		ug/L		108	70 - 132	7	11

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*104*		*70 - 130*
Toluene-d8 (Surr)	*105*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*112*		*70 - 130*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*

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

Lab Sample ID: 490-152316-3 MS — **Client Sample ID: GAC-1 EFF**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 516800

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	ND		20.0	20.22		ug/L		101	55 - 147
Ethylbenzene	ND		20.0	22.54		ug/L		113	65 - 139
Methyl tert-butyl ether	ND		20.0	20.13		ug/L		101	55 - 141
Toluene	ND		20.0	20.66		ug/L		103	64 - 136
Xylenes, Total	ND		40.0	45.76		ug/L		114	69 - 132

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*101*		*70 - 130*
Toluene-d8 (Surr)	*105*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*109*		*70 - 130*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*

Lab Sample ID: 490-152316-3 MSD — **Client Sample ID: GAC-1 EFF**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 516800

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	ND		20.0	21.57		ug/L		108	55 - 147	6	22
Ethylbenzene	ND		20.0	25.00		ug/L		125	65 - 139	10	18
Methyl tert-butyl ether	ND		20.0	21.92		ug/L		110	55 - 141	9	24
Toluene	ND		20.0	22.74		ug/L		114	64 - 136	10	18
Xylenes, Total	ND		40.0	50.78		ug/L		127	69 - 132	10	17

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*103*		*70 - 130*
Toluene-d8 (Surr)	*104*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*105*		*70 - 130*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Lab Sample ID: MB 490-516315/8 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 516315

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		100		ug/L			05/21/18 10:41	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*112*		*50 - 150*		*05/21/18 10:41*	*1*

Method: 8015C - Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics) (Continued)

Lab Sample ID: LCS 490-516315/4 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 516315

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics [C6 - C10]			1000	1075		ug/L		108	66 - 140		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
a,a,a-Trifluorotoluene	*99*		*50 - 150*

Lab Sample ID: LCSD 490-516315/5 — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 516315

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics [C6 - C10]			1000	1047		ug/L		105	66 - 140	3	42

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
a,a,a-Trifluorotoluene	*99*		*50 - 150*

Lab Sample ID: 490-152316-3 MS — **Client Sample ID: GAC-1 EFF**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 516315

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics [C6 - C10]	ND		1000	923.4		ug/L		92	33 - 175		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
a,a,a-Trifluorotoluene	*101*		*50 - 150*

Lab Sample ID: 490-152316-3 MSD — **Client Sample ID: GAC-1 EFF**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 516315

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics [C6 - C10]	ND		1000	1101		ug/L		110	33 - 175	18	42

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
a,a,a-Trifluorotoluene	*101*		*50 - 150*

QC Association Summary

Client: AECOM
Project/Site: 32785.Hampstead.EL (MD)

TestAmerica Job ID: 490-152316-1
SDG: 125 Hanover Pike, Hampstead, MD

GC/MS VOA

Analysis Batch: 516800

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-152316-1	A/S INF	Total/NA	Water	8260B	
490-152316-2	A/S EFF	Total/NA	Water	8260B	
490-152316-3	GAC-1 EFF	Total/NA	Water	8260B	
490-152316-4	GAC-2 FINAL	Total/NA	Water	8260B	
490-152316-5	MW 8	Total/NA	Water	8260B	
490-152316-6	MW 9	Total/NA	Water	8260B	
490-152316-7	MW 10	Total/NA	Water	8260B	
MB 490-516800/7	Method Blank	Total/NA	Water	8260B	
LCS 490-516800/3	Lab Control Sample	Total/NA	Water	8260B	
LCSD 490-516800/4	Lab Control Sample Dup	Total/NA	Water	8260B	
490-152316-3 MS	GAC-1 EFF	Total/NA	Water	8260B	
490-152316-3 MSD	GAC-1 EFF	Total/NA	Water	8260B	

GC VOA

Analysis Batch: 516315

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-152316-1	A/S INF	Total/NA	Water	8015C	
490-152316-2	A/S EFF	Total/NA	Water	8015C	
490-152316-3	GAC-1 EFF	Total/NA	Water	8015C	
490-152316-4	GAC-2 FINAL	Total/NA	Water	8015C	
490-152316-5	MW 8	Total/NA	Water	8015C	
490-152316-6	MW 9	Total/NA	Water	8015C	
490-152316-7	MW 10	Total/NA	Water	8015C	
MB 490-516315/8	Method Blank	Total/NA	Water	8015C	
LCS 490-516315/4	Lab Control Sample	Total/NA	Water	8015C	
LCSD 490-516315/5	Lab Control Sample Dup	Total/NA	Water	8015C	
490-152316-3 MS	GAC-1 EFF	Total/NA	Water	8015C	
490-152316-3 MSD	GAC-1 EFF	Total/NA	Water	8015C	

Lab Chronicle

Client: AECOM
Project/Site: 32785.Hampstead.EL (MD)

TestAmerica Job ID: 490-152316-1
SDG: 125 Hanover Pike, Hampstead, MD

Client Sample ID: A/S INF — Lab Sample ID: 490-152316-1

Date Collected: 05/17/18 15:10
Date Received: 05/19/18 09:50
Matrix: Water

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	5 mL	5 mL	516800	05/23/18 04:02	P1B	TAL NSH
Total/NA	Analysis	8015C		1	5 mL	5 mL	516315	05/21/18 18:26	S1S	TAL NSH

Client Sample ID: A/S EFF — Lab Sample ID: 490-152316-2

Date Collected: 05/17/18 15:05
Date Received: 05/19/18 09:50
Matrix: Water

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	5 mL	5 mL	516800	05/23/18 04:29	P1B	TAL NSH
Total/NA	Analysis	8015C		1	5 mL	5 mL	516315	05/21/18 19:02	S1S	TAL NSH

Client Sample ID: GAC-1 EFF — Lab Sample ID: 490-152316-3

Date Collected: 05/17/18 15:00
Date Received: 05/19/18 09:50
Matrix: Water

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	5 mL	5 mL	516800	05/23/18 04:56	P1B	TAL NSH
Total/NA	Analysis	8015C		1	5 mL	5 mL	516315	05/21/18 19:37	S1S	TAL NSH

Client Sample ID: GAC-2 FINAL — Lab Sample ID: 490-152316-4

Date Collected: 05/17/18 14:45
Date Received: 05/19/18 09:50
Matrix: Water

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	5 mL	5 mL	516800	05/23/18 05:22	P1B	TAL NSH
Total/NA	Analysis	8015C		1	5 mL	5 mL	516315	05/21/18 21:59	S1S	TAL NSH

Client Sample ID: MW 8 — Lab Sample ID: 490-152316-5

Date Collected: 05/17/18 15:20
Date Received: 05/19/18 09:50
Matrix: Water

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	5 mL	5 mL	516800	05/23/18 05:49	P1B	TAL NSH
Total/NA	Analysis	8015C		1	5 mL	5 mL	516315	05/21/18 22:34	S1S	TAL NSH

Client Sample ID: MW 9 — Lab Sample ID: 490-152316-6

Date Collected: 05/17/18 15:25
Date Received: 05/19/18 09:50
Matrix: Water

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	5 mL	5 mL	516800	05/23/18 06:16	P1B	TAL NSH

Lab Chronicle

Client: AECOM
Project/Site: 32785.Hampstead.EL (MD)

TestAmerica Job ID: 490-152316-1
SDG: 125 Hanover Pike, Hampstead, MD

Client Sample ID: MW 9

Lab Sample ID: 490-152316-6
Date Collected: 05/17/18 15:25
Matrix: Water
Date Received: 05/19/18 09:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015C		1	5 mL	5 mL	516315	05/21/18 23:09	S1S	TAL NSH

Client Sample ID: MW 10

Lab Sample ID: 490-152316-7
Date Collected: 05/17/18 15:30
Matrix: Water
Date Received: 05/19/18 09:50

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	5 mL	5 mL	516800	05/23/18 06:42	P1B	TAL NSH
Total/NA	Analysis	8015C		1	5 mL	5 mL	516315	05/21/18 23:45	S1S	TAL NSH

Laboratory References:

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

Method Summary

Client: AECOM
Project/Site: 32785.Hampstead.EL (MD)

TestAmerica Job ID: 490-152316-1
SDG: 125 Hanover Pike, Hampstead, MD

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL NSH
8015C	Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)	SW846	TAL NSH
5030B	Purge and Trap	SW846	TAL NSH

Protocol References:

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

Laboratory References:

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

Accreditation/Certification Summary

Client: AECOM
Project/Site: 32785.Hampstead.EL (MD)

TestAmerica Job ID: 490-152316-1
SDG: 125 Hanover Pike, Hampstead, MD

Laboratory: TestAmerica Nashville

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
Maryland	State Program	3	316	03-31-19

The following analytes are included in this report, but accreditation/certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
8015C		Water	Gasoline Range Organics [C6 - C10]
8260B		Water	Benzene
8260B		Water	Ethylbenzene
8260B		Water	Methyl tert-butyl ether
8260B		Water	Toluene
8260B		Water	Xylenes, Total

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
Nashville, TN

COOLER RECEIPT FORM

490-152316 Chain of Custody

Cooler Received/Opened On 5/19/2018 @ 0950

Time Samples Removed From Cooler 17:48 Time Samples Placed In Storage 18:05 (2 Hour Window)

1. Tracking # 6453 (last 4 digits, FedEx) Courier: FedEx

   IR Gun ID 97310166 pH Strip Lot _____ Chlorine Strip Lot _____

2. Temperature of rep. sample or temp blank when opened: 3.2 *Degrees Celsius*

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO...NA

4. Were custody seals on outside of cooler? YES...NO...NA

   If yes, how many and where: 1 (Front)

5. Were the seals intact, signed, and dated correctly? YES...NO...NA

6. Were custody papers inside cooler? YES...NO...NA

I certify that I opened the cooler and answered questions 1-6 (intial) ZZ

7. Were custody seals on containers: YES NO and Intact YES...NO...NA

   Were these signed and dated correctly? YES...NO...NA

8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? YES...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES...NO...NA

12. Did all container labels and tags agree with custody papers? YES...NO...NA

13a. Were VOA vials received? YES...NO...NA

   b. Was there any observable headspace present in any VOA vial? YES...NO...NA

Larger than this.

14. Was there a Trip Blank in this cooler? YES...NO...NA If multiple coolers, sequence #_____

I certify that I unloaded the cooler and answered questions 7-14 (intial) ZZ

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES...NO...NA

   b. Did the bottle labels indicate that the correct preservatives were used YES...NO...NA

16. Was residual chlorine present? YES...NO...NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (intial) ZZ

17. Were custody papers properly filled out (ink, signed, etc)? YES...NO...NA

18. Did you sign the custody papers in the appropriate place? YES...NO...NA

19. Were correct containers used for the analysis requested? YES...NO...NA

20. Was sufficient amount of sample sent in each container? YES...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (intial) ZZ

I certify that I attached a label with the unique LIMS number to each container (intial) ZZ

21. Were there Non-Conformance issues at login? YES...NO Was a NCM generated? YES...NO...#_____

BIS = Broken in shipment
Cooler Receipt Form.doc LF-1 Revised 8/23/17
End of Form

TestAmerica Nashville
2960 Foster Creighton Drive

Nashville, TN 37204-3719
phone 615.726.0177 fax 615.726.3404

Chain of Custody Record

490-152316

TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: John Canzeri	Site Contact:	Proj.#: 49008398 (ENFOS)	COC No:
AECOM	Tel/Fax: 301-289-3805	Lab Contact: Jennifer Huckaba	Carrier:	1 of 1 COCs
8000 Virginia Manor Rd., Suite 110	Analysis Turnaround Time			Sampler: M. Parsons
Beltsville, Maryland 20705	☐ CALENDAR DAYS ☑ WORKING DAYS			For Lab Use Only:
301-289-3900 Phone	TAT if different from Below: Standard			Walk-in Client:
301-289-3901 FAX	☐ 2 weeks			Lab Sampling:
Project Name: 32785.Hampstead.EL	☐ 1 week			
Site: 125 Hanover Pike, Hampstead, MD	☐ 2 days			W.O.#: WO312107
P O #	☐ 1 day			AECOM's Job#: 60338398

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	BTEX + MTBE 8260B	TPH-GRO 8015C (C6-C10)	Sample Specific Notes:
A/S INF	5/17/18	1510	Grab	W	6	N	N	*	*	
A/S EFF		1505	Grab	W	6	N	N	*	*	
GAC-1 EFF		1500	Grab	W	6	N	N	*	*	
GAC-2 FINAL		1445	Grab	W	6	N	N	*	*	
MW 8		1520	Grab	W	6	N	N	*	*	
MW 9		1525	Grab	W	6	N	N	*	*	
MW 10		1530	Grab	W	6	N	N	*	*	
								2	2	

180325
BALTIMC

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☑ Disposal by Lab ☐ Archive for _____ Months

7-Eleven/AECOM EDD

Red cap voas used at clients request

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:		Cooler Temp. (°C): Obs'd:_____ Corr'd:_____		Therm ID No.:_____
Relinquished by: (Parsons)	Company: AECOM	Date/Time: 5/18/18 1120	Received by:	Company: TA	Date/Time: 5/18/18 1120
Relinquished by:	Company: TA	Date/Time: 5/18/18 1121	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company: TA-NAS	Date/Time: 05/19/18 09:50