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September 28, 2016

Mr. Jim Richmond
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. Richmond,

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 rate from the groundwater treatment system has achieved asymptotic levels and dissolved-phase hydrocarbon trends are stable and/or decreasing in the monitoring wells.

Stable trends are observed in monitoring wells MW-1, MW-2 and MW-5, and methyl-t-butyl ether (MTBE) continues to remain below the detection limit (BDL) in monitoring wells MW-3, MW-4, MW-7 and MW-10. Additionally, decreasing trends are observed in monitoring wells MW-6, MW-8 and MW-9. During the Q3-2016 sampling event conducted on September 16, 2016, all detections of MTBE were below the MDE standard of 20 micrograms-per-liter (ug/l) with the exception of a MTBE detection of 24 ug/l in monitoring well MW-6. The laboratory analytical results are presented in **Table 1**. Trend graphs displaying decreasing MTBE concentrations in monitoring wells MW-1 and MW-6, and pumping wells MW-8, MW-9 and MW-10 are provided as **Attachment A**. The laboratory analytical reports for the monitoring well data collected during Q3-2016 are included on the provided compact disc as **Attachment B**.

AECOM, on behalf of 7-Eleven is requesting permission to turn the remediation system off in October 2016. 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 treatment (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 - gasoline range organics (TPH-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 October 2016. 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 a period of 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

Attachments:

Table 1 – Groundwater Analytical Results of Monitoring Well Sampling
Figure 1 – Site Map
Attachment A – MTBE Trend Graphs
Attachment B – Groundwater Analytical Results – Monitoring Wells

Cc: Ms. Susan Bull, Maryland Department of the Environment
7-Eleven Project File

TABLE

Table 1: Groundwater Analytical Results of Monitoring Well Sampling
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

Table 1: Groundwater Analytical Results of Monitoring Well Sampling
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

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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

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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

Table 1: Groundwater Analytical Results of Monitoring Well Sampling
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

Table 1: Groundwater Analytical Results of Monitoring Well Sampling
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

Table 1: Groundwater Analytical Results of Monitoring Well Sampling
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

Table 1: Groundwater Analytical Results of Monitoring Well Sampling
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
	3/4/16	ND@1	ND@1	ND@1	ND@3	ND	4.4	ND@10	ND@1	ND@100	NA
	6/2/16	ND@1	ND@1	ND@1	ND@3	ND	4.9	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

Table 1: Groundwater Analytical Results of Monitoring Well Sampling
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
	3/4/16	ND@1	ND@1	ND@1	ND@3	ND	**104**	ND@10	ND@1	ND@100	NA
	6/2/16	ND@1	ND@1	ND@1	ND@3	ND	**55**	ND@10	ND@1	ND@100	NA
	9/16/16	ND@1	ND@1	ND@1	ND@3	ND	17	ND@10	ND@1	ND@100	NA

Table 1: Groundwater Analytical Results of Monitoring Well Sampling
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
	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

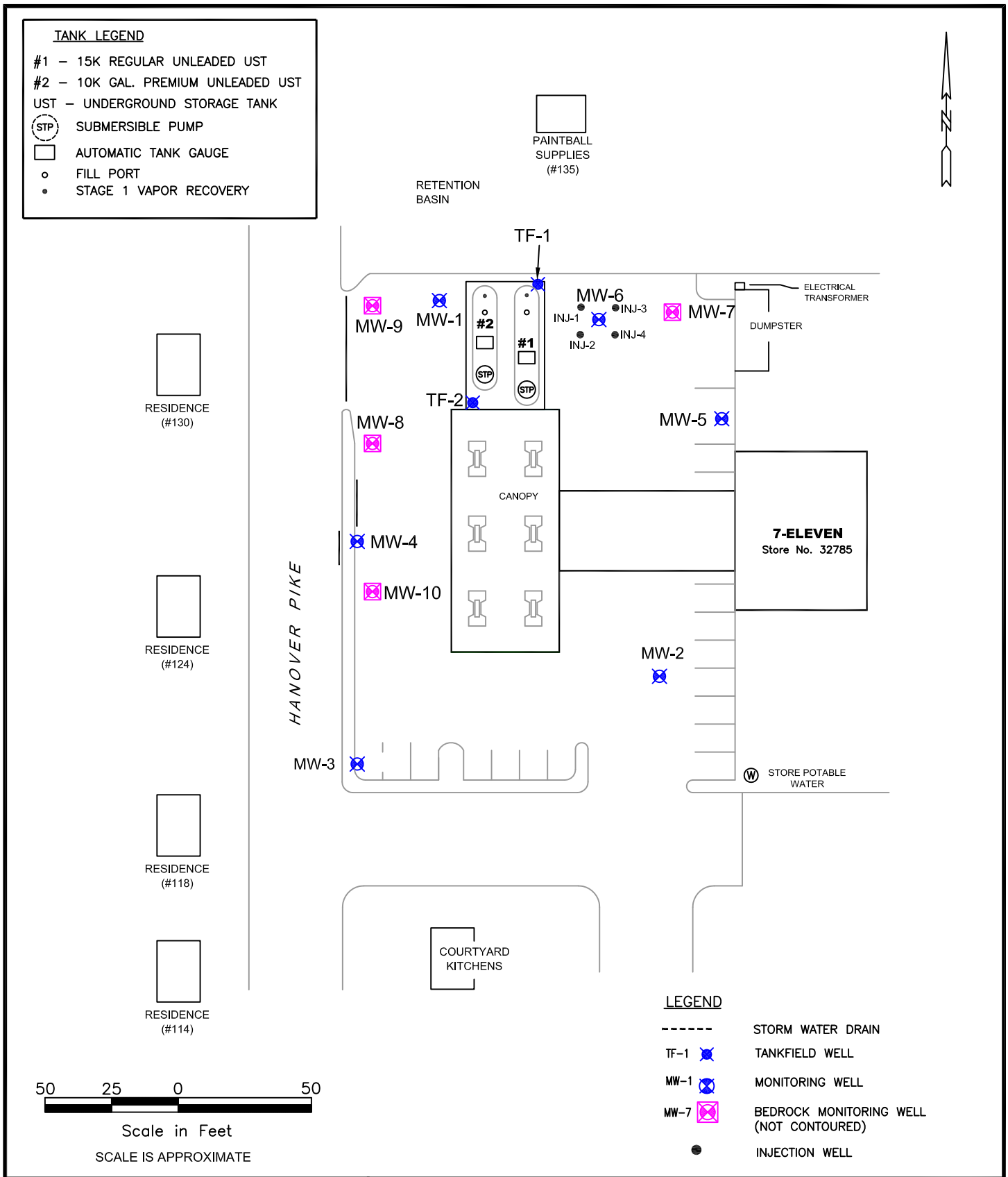
Table 1: Groundwater Analytical Results of Monitoring Well Sampling
7-Eleven Store No. 32785
Hampstead, Maryland

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
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

FIGURE



AECOM

AECOM ENVIRONMENT
8000 Virginia Manor Road Suite 110
Beltsville, MD 20705
PHONE: (301) 289-3900
FAX: (301) 289-3901
WEB: WWW.AECOM.COM

SITE MAP

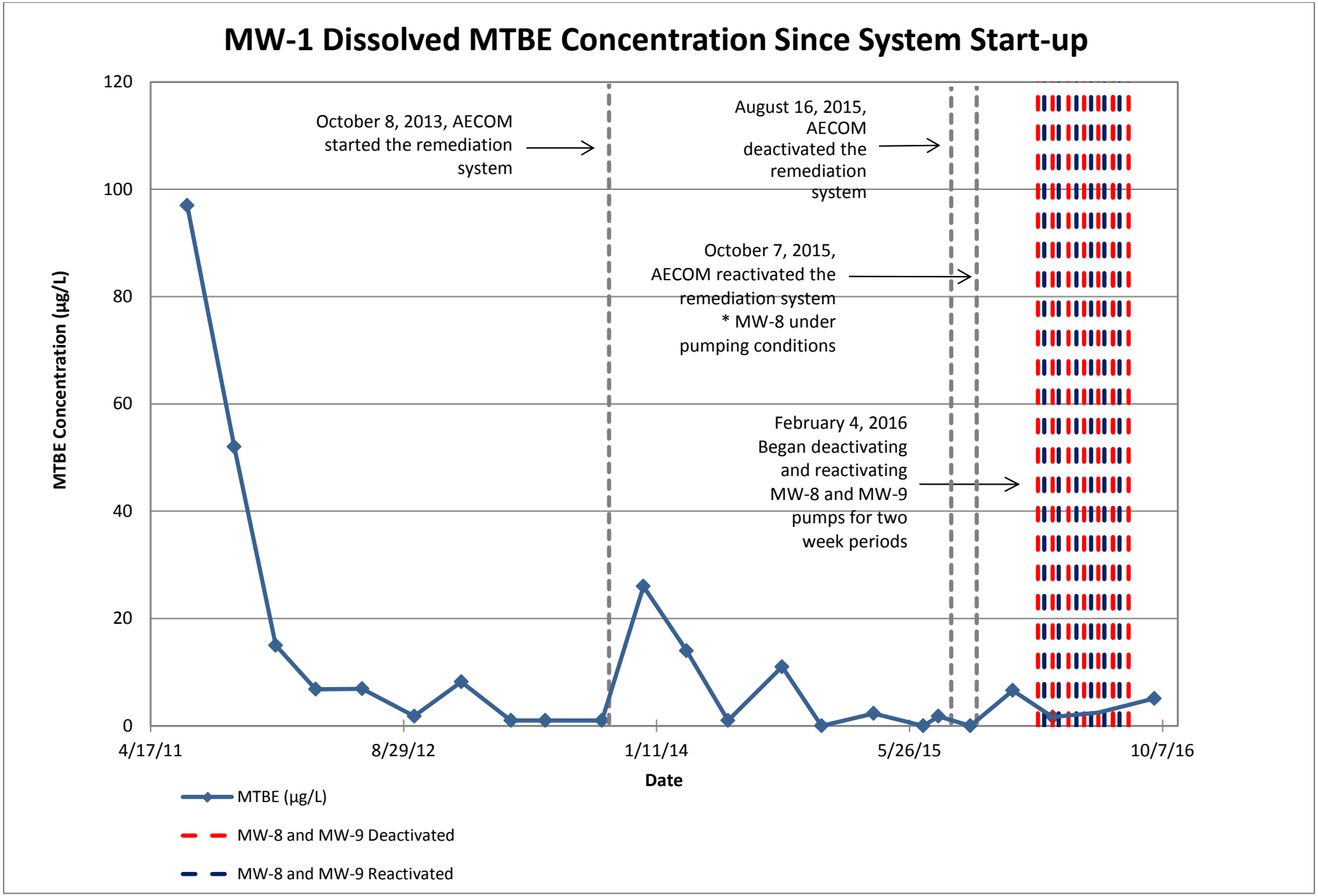
7-ELEVEN STORE NO. 32785
125 HANOVER PIKE
HAMPSTEAD, MD

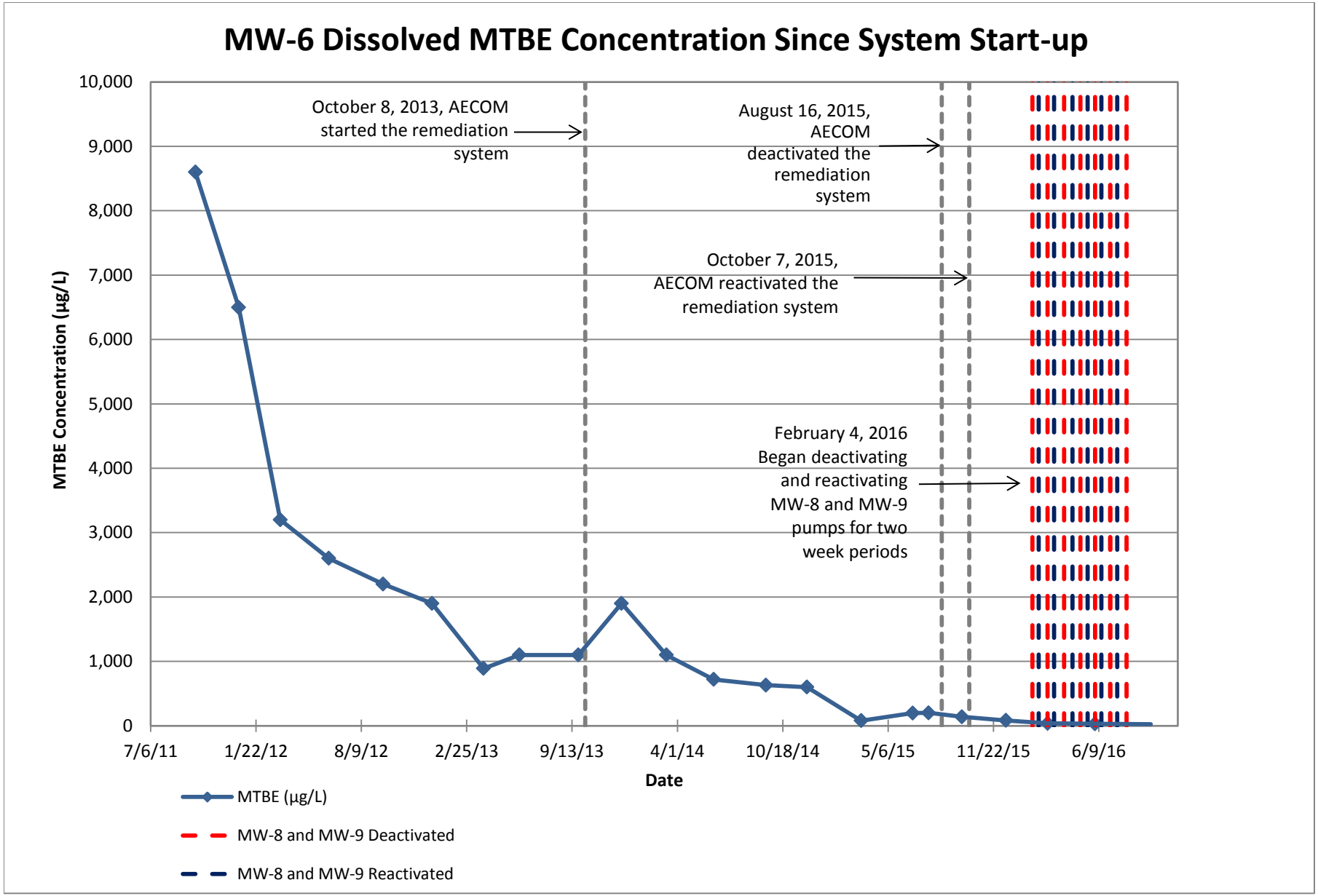
FIGURE NUMBER: **1**

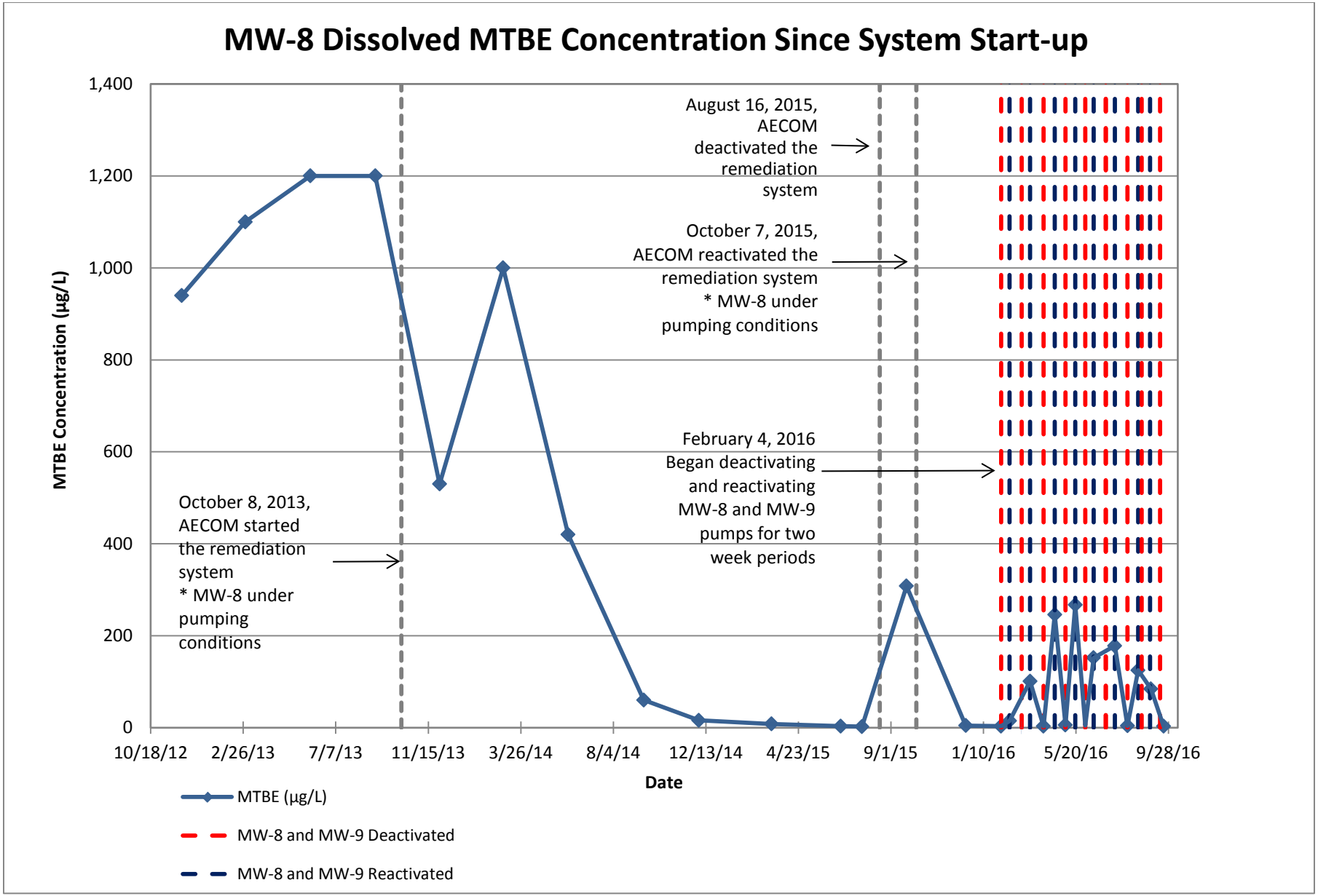
DRAWN BY:	CHECKED BY:	DATE:	PROJECT NUMBER:	SHEET NUMBER:
LLM	RM	7/21/2016	60338398	1 OF 1

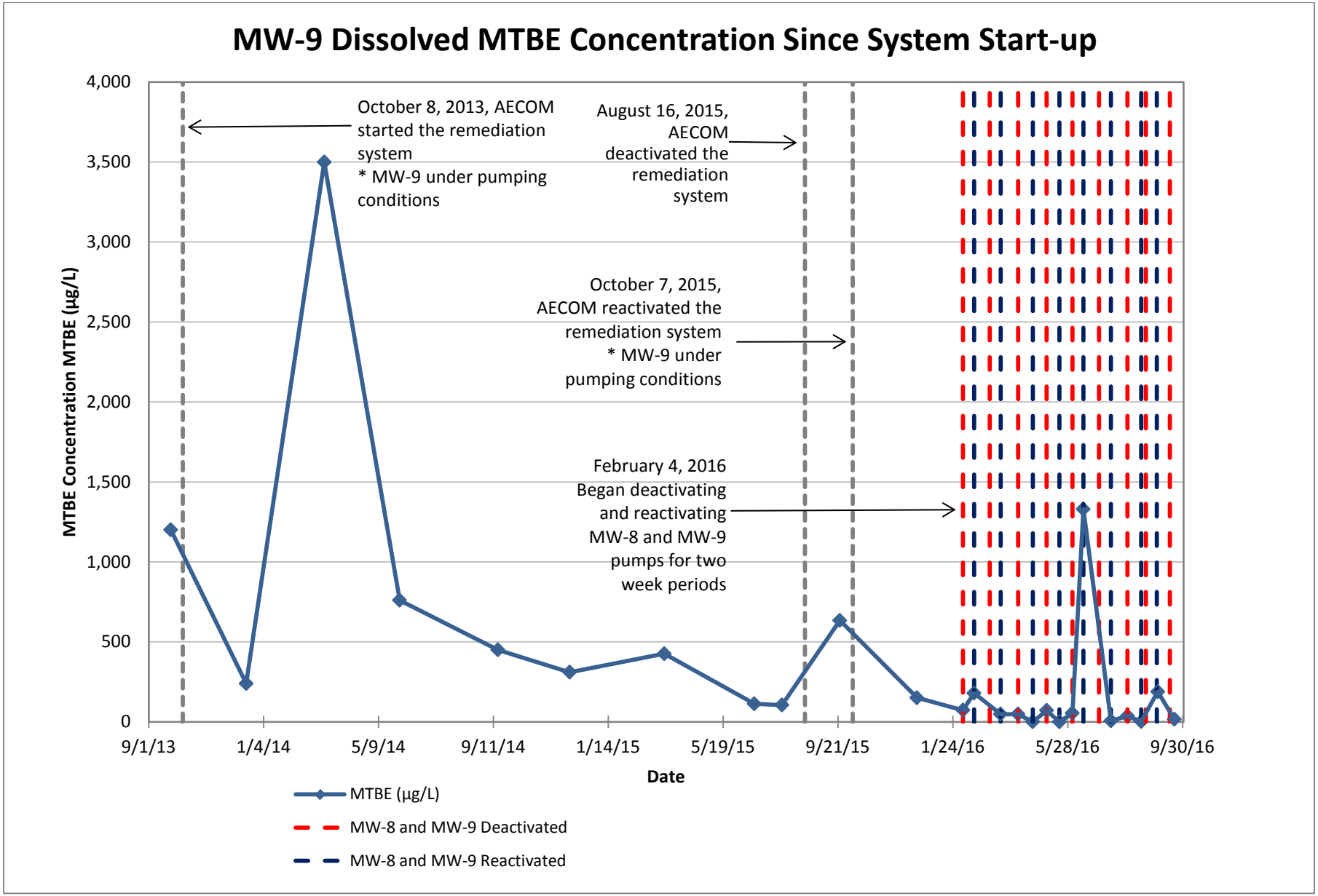
ATTACHMENT A

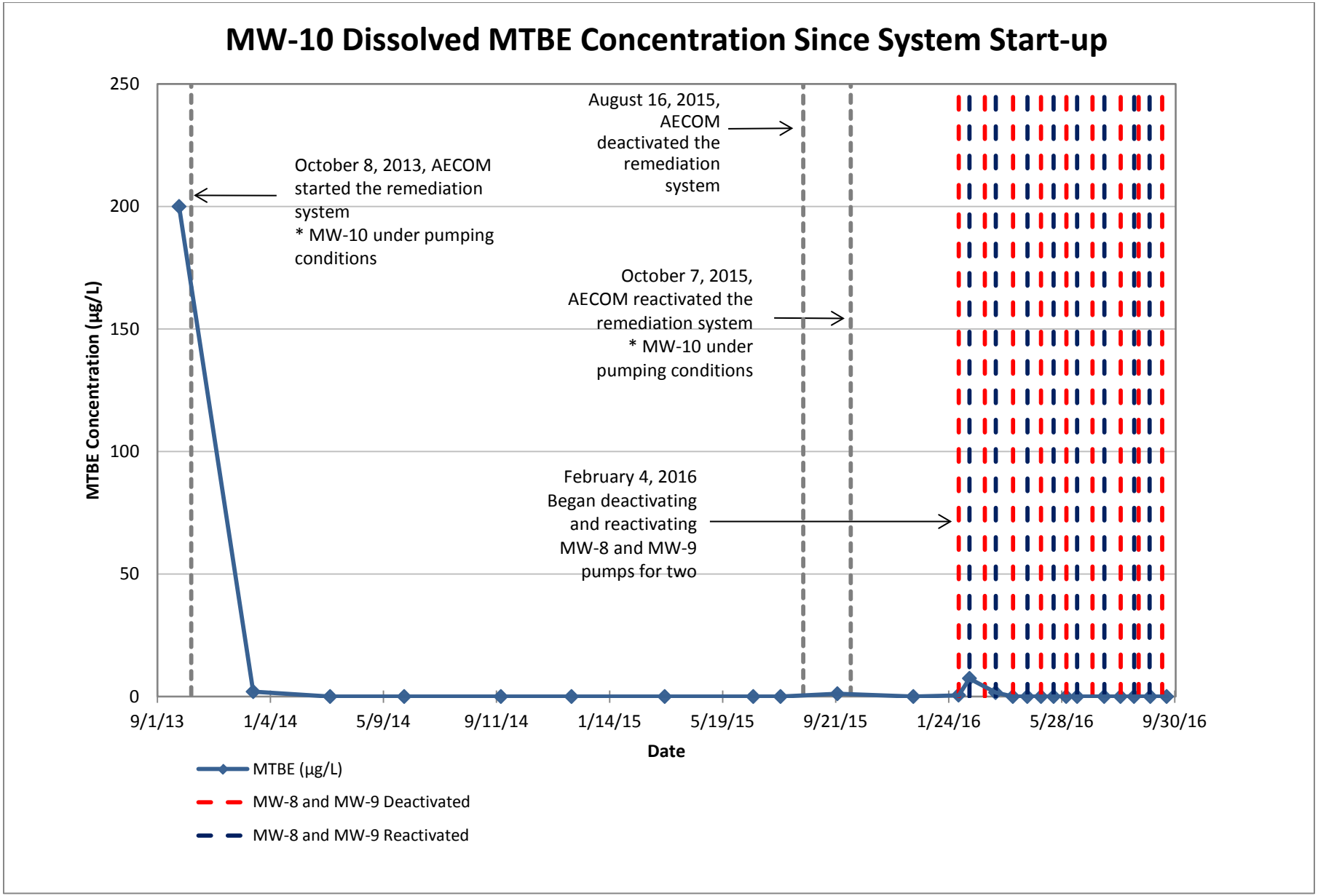
MTBE Trend Graphs


MW-1 Dissolved MTBE Concentration Since System Start-up
MTBE Concentration (µg/L)
120
100
80
60
40
20
0
4/17/11
8/29/12
1/11/14
5/26/15
10/7/16
Date
October 8, 2013, AECOM started the remediation system
August 16, 2015, AECOM deactivated the remediation system
October 7, 2015, AECOM reactivated the remediation system
* MW-8 under pumping conditions
February 4, 2016 Began deactivating and reactivating MW-8 and MW-9 pumps for two week periods
MTBE (µg/L)
MW-8 and MW-9 Deactivated
MW-8 and MW-9 Reactivated


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
7/6/11
1/22/12
8/9/12
2/25/13
9/13/13
4/1/14
10/18/14
5/6/15
11/22/15
6/9/16
Date
October 8, 2013, AECOM started the remediation system
August 16, 2015, AECOM deactivated the remediation system
October 7, 2015, AECOM reactivated the remediation system
February 4, 2016 Began deactivating and reactivating MW-8 and MW-9 pumps for two week periods
MTBE (µg/L)
MW-8 and MW-9 Deactivated
MW-8 and MW-9 Reactivated


MW-8 Dissolved MTBE Concentration Since System Start-up
MTBE Concentration (µg/L)
1,400
1,200
1,000
800
600
400
200
0
10/18/12
2/26/13
7/7/13
11/15/13
3/26/14
8/4/14
12/13/14
4/23/15
9/1/15
1/10/16
5/20/16
9/28/16
Date
August 16, 2015, AECOM deactivated the remediation system
October 7, 2015, AECOM reactivated the remediation system
* MW-8 under pumping conditions
February 4, 2016 Began deactivating and reactivating MW-8 and MW-9 pumps for two week periods
October 8, 2013, AECOM started the remediation system
* MW-8 under pumping conditions
MTBE (µg/L)
MW-8 and MW-9 Deactivated
MW-8 and MW-9 Reactivated


MW-9 Dissolved MTBE Concentration Since System Start-up
MTBE Concentration MTBE (µg/L)
4,000
3,500
3,000
2,500
2,000
1,500
1,000
500
0
9/1/13
1/4/14
5/9/14
9/11/14
1/14/15
5/19/15
9/21/15
1/24/16
5/28/16
9/30/16
Date
October 8, 2013, AECOM started the remediation system
* MW-9 under pumping conditions
August 16, 2015, AECOM deactivated the remediation system
October 7, 2015, AECOM reactivated the remediation system
* MW-9 under pumping conditions
February 4, 2016 Began deactivating and reactivating MW-8 and MW-9 pumps for two week periods
MTBE (µg/L)
MW-8 and MW-9 Deactivated
MW-8 and MW-9 Reactivated


MW-10 Dissolved MTBE Concentration Since System Start-up
MTBE Concentration (µg/L)
250
200
150
100
50
0
9/1/13
1/4/14
5/9/14
9/11/14
1/14/15
5/19/15
9/21/15
1/24/16
5/28/16
9/30/16
Date
October 8, 2013, AECOM started the remediation system
* MW-10 under pumping conditions
August 16, 2015, AECOM deactivated the remediation system
October 7, 2015, AECOM reactivated the remediation system
* MW-10 under pumping conditions
February 4, 2016 Began deactivating and reactivating MW-8 and MW-9 pumps for two
MTBE (µg/L)
MW-8 and MW-9 Deactivated
MW-8 and MW-9 Reactivated

ATTACHMENT B

Groundwater Analytical Results – Monitoring Wells

(Included on the provided CD)

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: 490-107839-1
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

Sherry M Salomon

Authorized for release by:
7/25/2016 12:21:41 PM

Sherry Salomon, Manager of Project Management Assistants
(615)301-5033
sherry.salomon@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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Chain of Custody 17
Receipt Checklists 19

Sample Summary

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

TestAmerica Job ID: 490-107839-1
SDG: 125 Hanover Pike, Hampstead, MD

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
490-107839-1	MW 8	Water	07/14/16 15:15	07/16/16 09:45
490-107839-2	MW 9	Water	07/14/16 16:05	07/16/16 09:45
490-107839-3	MW 10	Water	07/14/16 14:50	07/16/16 09:45

Case Narrative

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

TestAmerica Job ID: 490-107839-1
SDG: 125 Hanover Pike, Hampstead, MD

Job ID: 490-107839-1

Laboratory: TestAmerica Nashville

Narrative

Job Narrative
490-107839-1

Comments
No additional comments.

Receipt
The samples were received on 7/16/2016 at 9:45 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.9º C.

Receipt Exceptions
No collection times were written on the labels of the following samples: MW 8 (490-107839-1), MW 9 (490-107839-2) and MW 10 (490-107839-3). The samples were logged per the times listed on the COC.

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: 490-107839-1
SDG: 125 Hanover Pike, Hampstead, MD

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
F2	MS/MSD RPD exceeds 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, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
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
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: 490-107839-1
SDG: 125 Hanover Pike, Hampstead, MD

Client Sample ID: MW 8

Date Collected: 07/14/16 15:15
Date Received: 07/16/16 09:45

Lab Sample ID: 490-107839-1

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			07/20/16 08:45	1
Diisopropyl ether	**4.58**		2.00		ug/L			07/20/16 08:45	1
Ethylbenzene	ND		1.00		ug/L			07/20/16 08:45	1
Ethyl tert-butyl ether	ND		1.00		ug/L			07/20/16 08:45	1
Methyl tert-butyl ether	**178**		1.00		ug/L			07/20/16 08:45	1
Tert-amyl methyl ether	**2.94**		1.00		ug/L			07/20/16 08:45	1
tert-Butyl alcohol (TBA)	**96.5**		10.0		ug/L			07/20/16 08:45	1
Toluene	ND		1.00		ug/L			07/20/16 08:45	1
Xylenes, Total	ND		3.00		ug/L			07/20/16 08:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*		*07/20/16 08:45*	*1*
Dibromofluoromethane (Surr)	*109*		*70 - 130*		*07/20/16 08:45*	*1*
1,2-Dichloroethane-d4 (Surr)	*110*		*70 - 130*		*07/20/16 08:45*	*1*
Toluene-d8 (Surr)	*99*		*70 - 130*		*07/20/16 08:45*	*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]	**172**		100		ug/L			07/20/16 06:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*96*		*50 - 150*		*07/20/16 06:31*	*1*

Client Sample Results

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

TestAmerica Job ID: 490-107839-1
SDG: 125 Hanover Pike, Hampstead, MD

Client Sample ID: MW 9

Date Collected: 07/14/16 16:05
Date Received: 07/16/16 09:45

Lab Sample ID: 490-107839-2

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			07/20/16 06:08	1
Diisopropyl ether	ND		2.00		ug/L			07/20/16 06:08	1
Ethylbenzene	ND		1.00		ug/L			07/20/16 06:08	1
Ethyl tert-butyl ether	ND		1.00		ug/L			07/20/16 06:08	1
Methyl tert-butyl ether	**6.70**		1.00		ug/L			07/20/16 06:08	1
Tert-amyl methyl ether	ND		1.00		ug/L			07/20/16 06:08	1
tert-Butyl alcohol (TBA)	ND		10.0		ug/L			07/20/16 06:08	1
Toluene	ND		1.00		ug/L			07/20/16 06:08	1
Xylenes, Total	ND		3.00		ug/L			07/20/16 06:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*		*07/20/16 06:08*	*1*
Dibromofluoromethane (Surr)	*108*		*70 - 130*		*07/20/16 06:08*	*1*
1,2-Dichloroethane-d4 (Surr)	*107*		*70 - 130*		*07/20/16 06:08*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*		*07/20/16 06:08*	*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			07/20/16 07:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*96*		*50 - 150*		*07/20/16 07:02*	*1*

Client Sample Results

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

TestAmerica Job ID: 490-107839-1
SDG: 125 Hanover Pike, Hampstead, MD

Client Sample ID: MW 10

Date Collected: 07/14/16 14:50
Date Received: 07/16/16 09:45

Lab Sample ID: 490-107839-3

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			07/20/16 05:42	1
Diisopropyl ether	ND		2.00		ug/L			07/20/16 05:42	1
Ethylbenzene	ND		1.00		ug/L			07/20/16 05:42	1
Ethyl tert-butyl ether	ND		1.00		ug/L			07/20/16 05:42	1
Methyl tert-butyl ether	ND		1.00		ug/L			07/20/16 05:42	1
Tert-amyl methyl ether	ND		1.00		ug/L			07/20/16 05:42	1
tert-Butyl alcohol (TBA)	ND		10.0		ug/L			07/20/16 05:42	1
Toluene	ND	F2	1.00		ug/L			07/20/16 05:42	1
Xylenes, Total	ND	F2	3.00		ug/L			07/20/16 05:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*		*07/20/16 05:42*	*1*
Dibromofluoromethane (Surr)	*109*		*70 - 130*		*07/20/16 05:42*	*1*
1,2-Dichloroethane-d4 (Surr)	*109*		*70 - 130*		*07/20/16 05:42*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*		*07/20/16 05:42*	*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			07/20/16 07:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*97*		*50 - 150*		*07/20/16 07:33*	*1*

QC Sample Results

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

TestAmerica Job ID: 490-107839-1
SDG: 125 Hanover Pike, Hampstead, MD

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

Lab Sample ID: MB 490-356362/7
Matrix: Water
Analysis Batch: 356362

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			07/20/16 05:16	1
Diisopropyl ether	ND		2.00		ug/L			07/20/16 05:16	1
Ethylbenzene	ND		1.00		ug/L			07/20/16 05:16	1
Ethyl tert-butyl ether	ND		1.00		ug/L			07/20/16 05:16	1
Methyl tert-butyl ether	ND		1.00		ug/L			07/20/16 05:16	1
Tert-amyl methyl ether	ND		1.00		ug/L			07/20/16 05:16	1
tert-Butyl alcohol (TBA)	ND		10.0		ug/L			07/20/16 05:16	1
Toluene	ND		1.00		ug/L			07/20/16 05:16	1
Xylenes, Total	ND		3.00		ug/L			07/20/16 05:16	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*		*07/20/16 05:16*	*1*
Dibromofluoromethane (Surr)	*110*		*70 - 130*		*07/20/16 05:16*	*1*
1,2-Dichloroethane-d4 (Surr)	*107*		*70 - 130*		*07/20/16 05:16*	*1*
Toluene-d8 (Surr)	*99*		*70 - 130*		*07/20/16 05:16*	*1*

Lab Sample ID: LCS 490-356362/3
Matrix: Water
Analysis Batch: 356362

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	51.14		ug/L		102	70 - 130
Diisopropyl ether	50.0	42.64		ug/L		85	66 - 142
Ethylbenzene	50.0	52.09		ug/L		104	70 - 130
Ethyl tert-butyl ether	50.0	44.08		ug/L		88	63 - 135
Methyl tert-butyl ether	50.0	45.14		ug/L		90	70 - 130
Tert-amyl methyl ether	50.0	43.94		ug/L		88	63 - 135
tert-Butyl alcohol (TBA)	500	338.0		ug/L		68	12 - 150
Toluene	50.0	52.02		ug/L		104	70 - 130
Xylenes, Total	150	149.0		ug/L		99	70 - 132

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*
Dibromofluoromethane (Surr)	*108*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*96*		*70 - 130*
Toluene-d8 (Surr)	*102*		*70 - 130*

Lab Sample ID: LCSD 490-356362/4
Matrix: Water
Analysis Batch: 356362

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	50.12		ug/L		100	70 - 130	2	12
Diisopropyl ether	50.0	44.21		ug/L		88	66 - 142	4	14
Ethylbenzene	50.0	50.53		ug/L		101	70 - 130	3	12
Ethyl tert-butyl ether	50.0	45.88		ug/L		92	63 - 135	4	15
Methyl tert-butyl ether	50.0	46.75		ug/L		94	70 - 130	3	16

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

Lab Sample ID: LCSD 490-356362/4
Matrix: Water
Analysis Batch: 356362

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
Tert-amyl methyl ether			50.0	44.97		ug/L		90	63 - 135	2	15
tert-Butyl alcohol (TBA)			500	374.4		ug/L		75	12 - 150	10	46
Toluene			50.0	50.30		ug/L		101	70 - 130	3	13
Xylenes, Total			150	145.1		ug/L		97	70 - 132	3	11

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*
Dibromofluoromethane (Surr)	*108*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 130*
Toluene-d8 (Surr)	*101*		*70 - 130*

Lab Sample ID: 490-107839-3 MS
Matrix: Water
Analysis Batch: 356362

Client Sample ID: MW 10
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene	ND		50.0	49.17		ug/L		98	55 - 147		
Diisopropyl ether	ND		50.0	42.74		ug/L		85	56 - 142		
Ethylbenzene	ND		50.0	49.67		ug/L		99	65 - 139		
Ethyl tert-butyl ether	ND		50.0	46.05		ug/L		92	53 - 138		
Methyl tert-butyl ether	ND		50.0	46.96		ug/L		93	55 - 141		
Tert-amyl methyl ether	ND		50.0	45.46		ug/L		91	47 - 148		
tert-Butyl alcohol (TBA)	ND		500	428.4		ug/L		86	10 - 150		
Toluene	ND	F2	50.0	48.93		ug/L		98	64 - 136		
Xylenes, Total	ND	F2	150	142.2		ug/L		95	69 - 132		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*
Dibromofluoromethane (Surr)	*108*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 130*
Toluene-d8 (Surr)	*100*		*70 - 130*

Lab Sample ID: 490-107839-3 MSD
Matrix: Water
Analysis Batch: 356362

Client Sample ID: MW 10
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	60.02		ug/L		120	55 - 147	20	22
Diisopropyl ether	ND		50.0	53.14		ug/L		106	56 - 142	22	22
Ethylbenzene	ND		50.0	59.50		ug/L		119	65 - 139	18	18
Ethyl tert-butyl ether	ND		50.0	56.93		ug/L		114	53 - 138	21	22
Methyl tert-butyl ether	ND		50.0	58.55		ug/L		117	55 - 141	22	24
Tert-amyl methyl ether	ND		50.0	56.53		ug/L		113	47 - 148	22	23
tert-Butyl alcohol (TBA)	ND		500	534.3		ug/L		107	10 - 150	22	47
Toluene	ND	F2	50.0	60.40	F2	ug/L		121	64 - 136	21	18
Xylenes, Total	ND	F2	150	170.2	F2	ug/L		113	69 - 132	18	17

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

Lab Sample ID: 490-107839-3 MSD
Matrix: Water
Analysis Batch: 356362

Client Sample ID: MW 10
Prep Type: Total/NA

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*
Dibromofluoromethane (Surr)	*109*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*98*		*70 - 130*
Toluene-d8 (Surr)	*99*		*70 - 130*

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

Lab Sample ID: MB 490-356118/8
Matrix: Water
Analysis Batch: 356118

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			07/19/16 13:44	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*94*		*50 - 150*		*07/19/16 13:44*	*1*

Lab Sample ID: LCS 490-356118/5
Matrix: Water
Analysis Batch: 356118

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics [C6 - C10]			1000	1085		ug/L		108	66 - 140		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
a,a,a-Trifluorotoluene	*129*		*50 - 150*

Lab Sample ID: LCSD 490-356118/6
Matrix: Water
Analysis Batch: 356118

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
Gasoline Range Organics [C6 - C10]			1000	1043		ug/L		104	66 - 140	4	42

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
a,a,a-Trifluorotoluene	*115*		*50 - 150*

Lab Sample ID: 490-107841-E-3 MS
Matrix: Water
Analysis Batch: 356118

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics [C6 - C10]	ND		1000	1046		ug/L		105	33 - 175		

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

Lab Sample ID: 490-107841-E-3 MS
Matrix: Water
Analysis Batch: 356118

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

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
a,a,a-Trifluorotoluene	*120*		*50 - 150*

Lab Sample ID: 490-107841-F-3 MSD
Matrix: Water
Analysis Batch: 356118

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

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	985.3		ug/L		99	33 - 175	6	42

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
a,a,a-Trifluorotoluene	*118*		*50 - 150*

QC Association Summary

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

TestAmerica Job ID: 490-107839-1
SDG: 125 Hanover Pike, Hampstead, MD

GC/MS VOA

Analysis Batch: 356362

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-107839-1	MW 8	Total/NA	Water	8260B	
490-107839-2	MW 9	Total/NA	Water	8260B	
490-107839-3	MW 10	Total/NA	Water	8260B	
MB 490-356362/7	Method Blank	Total/NA	Water	8260B	
LCS 490-356362/3	Lab Control Sample	Total/NA	Water	8260B	
LCSD 490-356362/4	Lab Control Sample Dup	Total/NA	Water	8260B	
490-107839-3 MS	MW 10	Total/NA	Water	8260B	
490-107839-3 MSD	MW 10	Total/NA	Water	8260B	

GC VOA

Analysis Batch: 356118

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-107839-1	MW 8	Total/NA	Water	8015C	
490-107839-2	MW 9	Total/NA	Water	8015C	
490-107839-3	MW 10	Total/NA	Water	8015C	
MB 490-356118/8	Method Blank	Total/NA	Water	8015C	
LCS 490-356118/5	Lab Control Sample	Total/NA	Water	8015C	
LCSD 490-356118/6	Lab Control Sample Dup	Total/NA	Water	8015C	
490-107841-E-3 MS	Matrix Spike	Total/NA	Water	8015C	
490-107841-F-3 MSD	Matrix Spike Duplicate	Total/NA	Water	8015C	

Lab Chronicle

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

TestAmerica Job ID: 490-107839-1
SDG: 125 Hanover Pike, Hampstead, MD

Client Sample ID: MW 8

Lab Sample ID: 490-107839-1
Date Collected: 07/14/16 15:15
Matrix: Water
Date Received: 07/16/16 09:45

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	356362	07/20/16 08:45	JRV	TAL NSH
Total/NA	Analysis	8015C		1	5 mL	5 mL	356118	07/20/16 06:31	GWM	TAL NSH

Client Sample ID: MW 9

Lab Sample ID: 490-107839-2
Date Collected: 07/14/16 16:05
Matrix: Water
Date Received: 07/16/16 09:45

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	356362	07/20/16 06:08	JRV	TAL NSH
Total/NA	Analysis	8015C		1	5 mL	5 mL	356118	07/20/16 07:02	GWM	TAL NSH

Client Sample ID: MW 10

Lab Sample ID: 490-107839-3
Date Collected: 07/14/16 14:50
Matrix: Water
Date Received: 07/16/16 09:45

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	356362	07/20/16 05:42	JRV	TAL NSH
Total/NA	Analysis	8015C		1	5 mL	5 mL	356118	07/20/16 07:33	GWM	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: 490-107839-1
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

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

Certification Summary

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

TestAmerica Job ID: 490-107839-1
SDG: 125 Hanover Pike, Hampstead, MD

Laboratory: TestAmerica Nashville

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

Authority	Program	EPA Region	Certification ID	Expiration Date
Maryland	State Program	3	316	03-31-17

The following analytes are included in this report, but 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	Diisopropyl ether
8260B		Water	Ethyl tert-butyl ether
8260B		Water	Ethylbenzene
8260B		Water	Methyl tert-butyl ether
8260B		Water	Tert-amyl methyl ether
8260B		Water	tert-Butyl alcohol (TBA)
8260B		Water	Toluene
8260B		Water	Xylenes, Total

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
Nashville, TN

490-107839 Chain of Custody

COOLER RECEIPT FORM

Cooler Received/Opened On 7/16/2016 @ 0945

Time Samples Removed From Cooler_____ Time Samples Placed In Storage_____ (2 Hour Window)

1. Tracking # 1819 (last 4 digits, FedEx) Courier: FedeX Ground

IR Gun ID 17960353 pH Strip Lot HC574756 Chlorine Strip Lot 041416F

2. Temperature of rep. sample or temp blank when opened: 2.9 *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: one front & Back

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) DA

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

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) PM

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) PM

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) PM

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

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

PM 7/16/16

BIS = Broken in shipment
Cooler Receipt Form.doc

LF-1
End of Form

Revised 12/15/15

TestAmerica Nashville
2960 Foster Creighton Drive
Nashville, TN 37204
Phone (615) 726-0177 Fax (615) 726-3404

Chain of Custody Record

180325

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

BALTIMORE

Client Information	Sampler: M. Parsons	Lab PM: Salomon, Sherry	TestAmerica Laboratories, Inc.	COC No: 490-49470-16119.1
Client Contact: Mr. John Canzeri	Phone: 443-286-2603	E-Mail: sherry.salomon@testamericainc.com		Page: Page 1 of 1
Company: AECOM				Job #: 60338398
Address: 8000 Virginia Manor Road Suite 110	Due Date Requested:			
City: Beltsville	TAT Requested (days): STD			
State, Zip: MD, 20705				
Phone: 301-289-3805(Tel) 301-289-3901(Fax)	PO #: WO245818			
Email: John.Canzeri@aecom.com	WO #:			
Project Name: 32785.Hampstead.EL(MD)	Project #: 49008398			
Site: 125 Hanover Pike, Hampstead, MD	SSOW#:			

Analysis Requested

Loc: 490
107839

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA
M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2SO3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - ph 4-5, Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B BTEX + Oxys	8015C_GRO	Total Number of containers	Special Instructions/Note:
			Preservation Code:			A	A			
1 MW 8	7/14/16	1515	G	Water	N	N	✓	✓	6	
2 MW 9		1605		Water			✓	✓	6	
3 MW 10		1450		Water			✓	✓	6	
				Water						
				Water						
				Water						
				Water						
				Water						
				Water						

Possible Hazard Identification
☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☑ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
(Parsons)	7-15-2016 / 1030	AECOM		7-15-2016 / 1030	TestAmerica
	7-15-2016 / 1050	TestAmerica	2.9	7-16-16 945	TAN

Custody Seals Intact: Δ Yes Δ No
Custody Seal No.:
Cooler Temperature(s) °C and Other Remarks:

Login Sample Receipt Checklist

Client: AECOM

Job Number: 490-107839-1
SDG Number: 125 Hanover Pike, Hampstead, MD

Login Number: 107839
List Number: 1
Creator: Ngo, Phiet

List Source: TestAmerica Nashville

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

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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: 490-108893-1
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

Sherry M Salomon

Authorized for release by:
8/10/2016 1:08:40 PM

Sherry Salomon, Manager of Project Management Assistants
(615)301-5033
sherry.salomon@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

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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: 490-108893-1
SDG: 125 Hanover Pike, Hampstead, MD

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
490-108893-1	A/S INF	Water	08/01/16 17:35	08/03/16 09:55
490-108893-2	A/S EFF	Water	08/01/16 17:30	08/03/16 09:55
490-108893-3	GAC-1 EFF	Water	08/01/16 17:25	08/03/16 09:55
490-108893-4	GAC-2 FINAL	Water	08/01/16 17:20	08/03/16 09:55
490-108893-5	MW-8	Water	08/01/16 17:40	08/03/16 09:55
490-108893-6	MW-9	Water	08/01/16 17:45	08/03/16 09:55
490-108893-7	MW-10	Water	08/01/16 17:50	08/03/16 09:55

Case Narrative

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

TestAmerica Job ID: 490-108893-1
SDG: 125 Hanover Pike, Hampstead, MD

Job ID: 490-108893-1

Laboratory: TestAmerica Nashville

Narrative

Job Narrative
490-108893-1

Comments
No additional comments.

Receipt
The samples were received on 8/3/2016 at 9:55 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 5.8º 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, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
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
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: 490-108893-1
SDG: 125 Hanover Pike, Hampstead, MD

Client Sample ID: A/S INF

Date Collected: 08/01/16 17:35
Date Received: 08/03/16 09:55

Lab Sample ID: 490-108893-1

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			08/05/16 03:34	1
Diisopropyl ether	ND		2.00		ug/L			08/05/16 03:34	1
Ethylbenzene	ND		1.00		ug/L			08/05/16 03:34	1
Ethyl tert-butyl ether	ND		1.00		ug/L			08/05/16 03:34	1
Methyl tert-butyl ether	**1.84**		1.00		ug/L			08/05/16 03:34	1
Tert-amyl methyl ether	ND		1.00		ug/L			08/05/16 03:34	1
tert-Butyl alcohol (TBA)	ND		10.0		ug/L			08/05/16 03:34	1
Toluene	ND		1.00		ug/L			08/05/16 03:34	1
Xylenes, Total	ND		3.00		ug/L			08/05/16 03:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*		*08/05/16 03:34*	*1*
Dibromofluoromethane (Surr)	*108*		*70 - 130*		*08/05/16 03:34*	*1*
1,2-Dichloroethane-d4 (Surr)	*109*		*70 - 130*		*08/05/16 03:34*	*1*
Toluene-d8 (Surr)	*99*		*70 - 130*		*08/05/16 03:34*	*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			08/03/16 15:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*94*		*50 - 150*		*08/03/16 15:36*	*1*

Client Sample Results

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

TestAmerica Job ID: 490-108893-1
SDG: 125 Hanover Pike, Hampstead, MD

Client Sample ID: A/S EFF

Date Collected: 08/01/16 17:30
Date Received: 08/03/16 09:55

Lab Sample ID: 490-108893-2

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			08/05/16 03:08	1
Diisopropyl ether	ND		2.00		ug/L			08/05/16 03:08	1
Ethylbenzene	ND		1.00		ug/L			08/05/16 03:08	1
Ethyl tert-butyl ether	ND		1.00		ug/L			08/05/16 03:08	1
Methyl tert-butyl ether	ND		1.00		ug/L			08/05/16 03:08	1
Tert-amyl methyl ether	ND		1.00		ug/L			08/05/16 03:08	1
tert-Butyl alcohol (TBA)	ND		10.0		ug/L			08/05/16 03:08	1
Toluene	ND		1.00		ug/L			08/05/16 03:08	1
Xylenes, Total	ND		3.00		ug/L			08/05/16 03:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*		*08/05/16 03:08*	*1*
Dibromofluoromethane (Surr)	*111*		*70 - 130*		*08/05/16 03:08*	*1*
1,2-Dichloroethane-d4 (Surr)	*110*		*70 - 130*		*08/05/16 03:08*	*1*
Toluene-d8 (Surr)	*99*		*70 - 130*		*08/05/16 03:08*	*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			08/03/16 16:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*94*		*50 - 150*		*08/03/16 16:08*	*1*

Client Sample Results

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

TestAmerica Job ID: 490-108893-1
SDG: 125 Hanover Pike, Hampstead, MD

Client Sample ID: GAC-1 EFF

Lab Sample ID: 490-108893-3

Date Collected: 08/01/16 17:25
Date Received: 08/03/16 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			08/05/16 02:42	1
Diisopropyl ether	ND		2.00		ug/L			08/05/16 02:42	1
Ethylbenzene	ND		1.00		ug/L			08/05/16 02:42	1
Ethyl tert-butyl ether	ND		1.00		ug/L			08/05/16 02:42	1
Methyl tert-butyl ether	ND		1.00		ug/L			08/05/16 02:42	1
Tert-amyl methyl ether	ND		1.00		ug/L			08/05/16 02:42	1
tert-Butyl alcohol (TBA)	ND		10.0		ug/L			08/05/16 02:42	1
Toluene	ND		1.00		ug/L			08/05/16 02:42	1
Xylenes, Total	ND		3.00		ug/L			08/05/16 02:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*		*08/05/16 02:42*	*1*
Dibromofluoromethane (Surr)	*111*		*70 - 130*		*08/05/16 02:42*	*1*
1,2-Dichloroethane-d4 (Surr)	*110*		*70 - 130*		*08/05/16 02:42*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*		*08/05/16 02:42*	*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			08/03/16 18:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*96*		*50 - 150*		*08/03/16 18:16*	*1*

Client Sample Results

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

TestAmerica Job ID: 490-108893-1
SDG: 125 Hanover Pike, Hampstead, MD

Client Sample ID: GAC-2 FINAL

Lab Sample ID: 490-108893-4

Date Collected: 08/01/16 17:20
Matrix: Water
Date Received: 08/03/16 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			08/05/16 02:15	1
Ethylbenzene	ND		1.00		ug/L			08/05/16 02:15	1
Methyl tert-butyl ether	ND		1.00		ug/L			08/05/16 02:15	1
Toluene	ND		1.00		ug/L			08/05/16 02:15	1
Xylenes, Total	ND		3.00		ug/L			08/05/16 02:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*108*		*70 - 130*		*08/05/16 02:15*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*		*08/05/16 02:15*	*1*
1,2-Dichloroethane-d4 (Surr)	*107*		*70 - 130*		*08/05/16 02:15*	*1*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*		*08/05/16 02:15*	*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			08/03/16 18:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*96*		*50 - 150*		*08/03/16 18:48*	*1*

Client Sample Results

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

TestAmerica Job ID: 490-108893-1
SDG: 125 Hanover Pike, Hampstead, MD

Client Sample ID: MW-8

Lab Sample ID: 490-108893-5

Date Collected: 08/01/16 17:40
Date Received: 08/03/16 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			08/05/16 04:53	1
Diisopropyl ether	ND		2.00		ug/L			08/05/16 04:53	1
Ethylbenzene	ND		1.00		ug/L			08/05/16 04:53	1
Ethyl tert-butyl ether	ND		1.00		ug/L			08/05/16 04:53	1
Methyl tert-butyl ether	**4.01**		1.00		ug/L			08/05/16 04:53	1
Tert-amyl methyl ether	ND		1.00		ug/L			08/05/16 04:53	1
tert-Butyl alcohol (TBA)	ND		10.0		ug/L			08/05/16 04:53	1
Toluene	ND		1.00		ug/L			08/05/16 04:53	1
Xylenes, Total	ND		3.00		ug/L			08/05/16 04:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*		*08/05/16 04:53*	*1*
Dibromofluoromethane (Surr)	*109*		*70 - 130*		*08/05/16 04:53*	*1*
1,2-Dichloroethane-d4 (Surr)	*107*		*70 - 130*		*08/05/16 04:53*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*		*08/05/16 04:53*	*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			08/03/16 19:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*99*		*50 - 150*		*08/03/16 19:20*	*1*

Client Sample Results

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

TestAmerica Job ID: 490-108893-1
SDG: 125 Hanover Pike, Hampstead, MD

Client Sample ID: MW-9

Lab Sample ID: 490-108893-6

Date Collected: 08/01/16 17:45
Date Received: 08/03/16 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			08/05/16 04:27	1
Diisopropyl ether	ND		2.00		ug/L			08/05/16 04:27	1
Ethylbenzene	ND		1.00		ug/L			08/05/16 04:27	1
Ethyl tert-butyl ether	ND		1.00		ug/L			08/05/16 04:27	1
Methyl tert-butyl ether	**35.5**		1.00		ug/L			08/05/16 04:27	1
Tert-amyl methyl ether	ND		1.00		ug/L			08/05/16 04:27	1
tert-Butyl alcohol (TBA)	ND		10.0		ug/L			08/05/16 04:27	1
Toluene	ND		1.00		ug/L			08/05/16 04:27	1
Xylenes, Total	ND		3.00		ug/L			08/05/16 04:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*		*08/05/16 04:27*	*1*
Dibromofluoromethane (Surr)	*110*		*70 - 130*		*08/05/16 04:27*	*1*
1,2-Dichloroethane-d4 (Surr)	*108*		*70 - 130*		*08/05/16 04:27*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*		*08/05/16 04:27*	*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			08/03/16 19:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*96*		*50 - 150*		*08/03/16 19:52*	*1*

Client Sample Results

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

TestAmerica Job ID: 490-108893-1
SDG: 125 Hanover Pike, Hampstead, MD

Client Sample ID: MW-10

Date Collected: 08/01/16 17:50
Date Received: 08/03/16 09:55

Lab Sample ID: 490-108893-7

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			08/05/16 04:01	1
Diisopropyl ether	ND		2.00		ug/L			08/05/16 04:01	1
Ethylbenzene	ND		1.00		ug/L			08/05/16 04:01	1
Ethyl tert-butyl ether	ND		1.00		ug/L			08/05/16 04:01	1
Methyl tert-butyl ether	ND		1.00		ug/L			08/05/16 04:01	1
Tert-amyl methyl ether	ND		1.00		ug/L			08/05/16 04:01	1
tert-Butyl alcohol (TBA)	ND		10.0		ug/L			08/05/16 04:01	1
Toluene	ND		1.00		ug/L			08/05/16 04:01	1
Xylenes, Total	ND		3.00		ug/L			08/05/16 04:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*		*08/05/16 04:01*	*1*
Dibromofluoromethane (Surr)	*109*		*70 - 130*		*08/05/16 04:01*	*1*
1,2-Dichloroethane-d4 (Surr)	*108*		*70 - 130*		*08/05/16 04:01*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*		*08/05/16 04:01*	*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			08/03/16 20:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*99*		*50 - 150*		*08/03/16 20:24*	*1*

QC Sample Results

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

TestAmerica Job ID: 490-108893-1
SDG: 125 Hanover Pike, Hampstead, MD

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

Lab Sample ID: MB 490-360479/7
Matrix: Water
Analysis Batch: 360479

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			08/05/16 01:23	1
Diisopropyl ether	ND		2.00		ug/L			08/05/16 01:23	1
Ethylbenzene	ND		1.00		ug/L			08/05/16 01:23	1
Ethyl tert-butyl ether	ND		1.00		ug/L			08/05/16 01:23	1
Methyl tert-butyl ether	ND		1.00		ug/L			08/05/16 01:23	1
Tert-amyl methyl ether	ND		1.00		ug/L			08/05/16 01:23	1
tert-Butyl alcohol (TBA)	ND		10.0		ug/L			08/05/16 01:23	1
Toluene	ND		1.00		ug/L			08/05/16 01:23	1
Xylenes, Total	ND		3.00		ug/L			08/05/16 01:23	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*109*		*70 - 130*		*08/05/16 01:23*	*1*
1,2-Dichloroethane-d4 (Surr)	*109*		*70 - 130*		*08/05/16 01:23*	*1*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*		*08/05/16 01:23*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*		*08/05/16 01:23*	*1*

Lab Sample ID: LCS 490-360479/3
Matrix: Water
Analysis Batch: 360479

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	50.58		ug/L		101	70 - 130
Diisopropyl ether	50.0	47.70		ug/L		95	66 - 142
Ethylbenzene	50.0	49.93		ug/L		100	70 - 130
Ethyl tert-butyl ether	50.0	50.34		ug/L		101	63 - 135
Methyl tert-butyl ether	50.0	51.99		ug/L		104	70 - 130
Tert-amyl methyl ether	50.0	49.43		ug/L		99	63 - 135
tert-Butyl alcohol (TBA)	500	456.4		ug/L		91	12 - 150
Toluene	50.0	49.75		ug/L		99	70 - 130
Xylenes, Total	150	143.1		ug/L		95	70 - 132

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*110*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*117*		*70 - 130*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*
Toluene-d8 (Surr)	*100*		*70 - 130*

Lab Sample ID: LCSD 490-360479/4
Matrix: Water
Analysis Batch: 360479

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	51.64		ug/L		103	70 - 130	2	12
Diisopropyl ether	50.0	49.48		ug/L		99	66 - 142	4	14
Ethylbenzene	50.0	52.08		ug/L		104	70 - 130	4	12
Ethyl tert-butyl ether	50.0	51.04		ug/L		102	63 - 135	1	15
Methyl tert-butyl ether	50.0	54.37		ug/L		109	70 - 130	4	16

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

Lab Sample ID: LCSD 490-360479/4
Matrix: Water
Analysis Batch: 360479

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
Tert-amyl methyl ether			50.0	49.94		ug/L		100	63 - 135	1	15
tert-Butyl alcohol (TBA)			500	466.5		ug/L		93	12 - 150	2	46
Toluene			50.0	52.62		ug/L		105	70 - 130	6	13
Xylenes, Total			150	149.1		ug/L		99	70 - 132	4	11

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*109*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*116*		*70 - 130*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*
Toluene-d8 (Surr)	*101*		*70 - 130*

Lab Sample ID: 490-108893-4 MS
Matrix: Water
Analysis Batch: 360479

Client Sample ID: GAC-2 FINAL
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene	ND		50.0	55.06		ug/L		110	55 - 147		
Diisopropyl ether	ND		50.0	51.79		ug/L		104	56 - 142		
Ethylbenzene	ND		50.0	55.47		ug/L		111	65 - 139		
Ethyl tert-butyl ether	ND		50.0	53.04		ug/L		106	53 - 138		
Methyl tert-butyl ether	ND		50.0	54.77		ug/L		110	55 - 141		
Tert-amyl methyl ether	ND		50.0	52.59		ug/L		105	47 - 148		
tert-Butyl alcohol (TBA)	ND		500	657.1		ug/L		131	10 - 150		
Toluene	ND		50.0	55.80		ug/L		112	64 - 136		
Xylenes, Total	ND		150	157.7		ug/L		105	69 - 132		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*111*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*95*		*70 - 130*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*
Toluene-d8 (Surr)	*100*		*70 - 130*

Lab Sample ID: 490-108893-4 MSD
Matrix: Water
Analysis Batch: 360479

Client Sample ID: GAC-2 FINAL
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	53.79		ug/L		108	55 - 147	2	22
Diisopropyl ether	ND		50.0	50.29		ug/L		101	56 - 142	3	22
Ethylbenzene	ND		50.0	52.82		ug/L		106	65 - 139	5	18
Ethyl tert-butyl ether	ND		50.0	52.32		ug/L		105	53 - 138	1	22
Methyl tert-butyl ether	ND		50.0	53.84		ug/L		108	55 - 141	2	24
Tert-amyl methyl ether	ND		50.0	51.25		ug/L		103	47 - 148	3	23
tert-Butyl alcohol (TBA)	ND		500	699.8		ug/L		140	10 - 150	6	47
Toluene	ND		50.0	52.75		ug/L		105	64 - 136	6	18
Xylenes, Total	ND		150	150.8		ug/L		101	69 - 132	5	17

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

Lab Sample ID: 490-108893-4 MSD
Matrix: Water
Analysis Batch: 360479

Client Sample ID: GAC-2 FINAL
Prep Type: Total/NA

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*109*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*97*		*70 - 130*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*
Toluene-d8 (Surr)	*99*		*70 - 130*

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

Lab Sample ID: MB 490-359903/6
Matrix: Water
Analysis Batch: 359903

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			08/03/16 11:07	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*96*		*50 - 150*		*08/03/16 11:07*	*1*

Lab Sample ID: LCS 490-359903/4
Matrix: Water
Analysis Batch: 359903

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics [C6 - C10]			1000	1090		ug/L		109	66 - 140		

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

Lab Sample ID: LCSD 490-359903/5
Matrix: Water
Analysis Batch: 359903

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
Gasoline Range Organics [C6 - C10]			1000	1027		ug/L		103	66 - 140	6	42

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

Lab Sample ID: 490-108893-2 MS
Matrix: Water
Analysis Batch: 359903

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		
Gasoline Range Organics [C6 - C10]	ND		1000	1092		ug/L		109	33 - 175		

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

Lab Sample ID: 490-108893-2 MS
Matrix: Water
Analysis Batch: 359903

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

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

Lab Sample ID: 490-108893-2 MSD
Matrix: Water
Analysis Batch: 359903

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
Gasoline Range Organics [C6 - C10]	ND		1000	968.0		ug/L		97	33 - 175	12	42

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
a,a,a-Trifluorotoluene	*97*		*50 - 150*

QC Association Summary

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

TestAmerica Job ID: 490-108893-1
SDG: 125 Hanover Pike, Hampstead, MD

GC/MS VOA

Analysis Batch: 360479

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-108893-1	A/S INF	Total/NA	Water	8260B	
490-108893-2	A/S EFF	Total/NA	Water	8260B	
490-108893-3	GAC-1 EFF	Total/NA	Water	8260B	
490-108893-4	GAC-2 FINAL	Total/NA	Water	8260B	
490-108893-5	MW-8	Total/NA	Water	8260B	
490-108893-6	MW-9	Total/NA	Water	8260B	
490-108893-7	MW-10	Total/NA	Water	8260B	
MB 490-360479/7	Method Blank	Total/NA	Water	8260B	
LCS 490-360479/3	Lab Control Sample	Total/NA	Water	8260B	
LCSD 490-360479/4	Lab Control Sample Dup	Total/NA	Water	8260B	
490-108893-4 MS	GAC-2 FINAL	Total/NA	Water	8260B	
490-108893-4 MSD	GAC-2 FINAL	Total/NA	Water	8260B	

GC VOA

Analysis Batch: 359903

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-108893-1	A/S INF	Total/NA	Water	8015C	
490-108893-2	A/S EFF	Total/NA	Water	8015C	
490-108893-3	GAC-1 EFF	Total/NA	Water	8015C	
490-108893-4	GAC-2 FINAL	Total/NA	Water	8015C	
490-108893-5	MW-8	Total/NA	Water	8015C	
490-108893-6	MW-9	Total/NA	Water	8015C	
490-108893-7	MW-10	Total/NA	Water	8015C	
MB 490-359903/6	Method Blank	Total/NA	Water	8015C	
LCS 490-359903/4	Lab Control Sample	Total/NA	Water	8015C	
LCSD 490-359903/5	Lab Control Sample Dup	Total/NA	Water	8015C	
490-108893-2 MS	A/S EFF	Total/NA	Water	8015C	
490-108893-2 MSD	A/S EFF	Total/NA	Water	8015C	

Lab Chronicle

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

TestAmerica Job ID: 490-108893-1
SDG: 125 Hanover Pike, Hampstead, MD

Client Sample ID: A/S INF — Lab Sample ID: 490-108893-1

Date Collected: 08/01/16 17:35 — **Matrix: Water**
Date Received: 08/03/16 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	360479	08/05/16 03:34	RP	TAL NSH
Total/NA	Analysis	8015C		1	5 mL	5 mL	359903	08/03/16 15:36	A1B	TAL NSH

Client Sample ID: A/S EFF — Lab Sample ID: 490-108893-2

Date Collected: 08/01/16 17:30 — **Matrix: Water**
Date Received: 08/03/16 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	360479	08/05/16 03:08	RP	TAL NSH
Total/NA	Analysis	8015C		1	5 mL	5 mL	359903	08/03/16 16:08	A1B	TAL NSH

Client Sample ID: GAC-1 EFF — Lab Sample ID: 490-108893-3

Date Collected: 08/01/16 17:25 — **Matrix: Water**
Date Received: 08/03/16 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	360479	08/05/16 02:42	RP	TAL NSH
Total/NA	Analysis	8015C		1	5 mL	5 mL	359903	08/03/16 18:16	A1B	TAL NSH

Client Sample ID: GAC-2 FINAL — Lab Sample ID: 490-108893-4

Date Collected: 08/01/16 17:20 — **Matrix: Water**
Date Received: 08/03/16 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	360479	08/05/16 02:15	RP	TAL NSH
Total/NA	Analysis	8015C		1	5 mL	5 mL	359903	08/03/16 18:48	A1B	TAL NSH

Client Sample ID: MW-8 — Lab Sample ID: 490-108893-5

Date Collected: 08/01/16 17:40 — **Matrix: Water**
Date Received: 08/03/16 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	360479	08/05/16 04:53	RP	TAL NSH
Total/NA	Analysis	8015C		1	5 mL	5 mL	359903	08/03/16 19:20	A1B	TAL NSH

Client Sample ID: MW-9 — Lab Sample ID: 490-108893-6

Date Collected: 08/01/16 17:45 — **Matrix: Water**
Date Received: 08/03/16 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	360479	08/05/16 04:27	RP	TAL NSH

Lab Chronicle

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

TestAmerica Job ID: 490-108893-1
SDG: 125 Hanover Pike, Hampstead, MD

Client Sample ID: MW-9

Lab Sample ID: 490-108893-6
Date Collected: 08/01/16 17:45
Matrix: Water
Date Received: 08/03/16 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	359903	08/03/16 19:52	A1B	TAL NSH

Client Sample ID: MW-10

Lab Sample ID: 490-108893-7
Date Collected: 08/01/16 17:50
Matrix: Water
Date Received: 08/03/16 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	360479	08/05/16 04:01	RP	TAL NSH
Total/NA	Analysis	8015C		1	5 mL	5 mL	359903	08/03/16 20:24	A1B	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: 490-108893-1
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

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

Certification Summary

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

TestAmerica Job ID: 490-108893-1
SDG: 125 Hanover Pike, Hampstead, MD

Laboratory: TestAmerica Nashville

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

Authority	Program	EPA Region	Certification ID	Expiration Date
Maryland	State Program	3	316	03-31-17

The following analytes are included in this report, but 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	Diisopropyl ether
8260B		Water	Ethyl tert-butyl ether
8260B		Water	Ethylbenzene
8260B		Water	Methyl tert-butyl ether
8260B		Water	Tert-amyl methyl ether
8260B		Water	tert-Butyl alcohol (TBA)
8260B		Water	Toluene
8260B		Water	Xylenes, Total

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Nashville, TN

COOLER RECEIPT FORM

490-108893 Chain of Custody

Cooler Received/Opened On 8/3/2016 @ 955

Time Samples Removed From Cooler 1300 Time Samples Placed In Storage 1320 (2 Hour Window)

1. Tracking # 7291 (last 4 digits, FedEx) Courier: _fedex_

   IR Gun ID 17960358 pH Strip Lot HC564992 Chlorine Strip Lot 072815A

2. Temperature of rep. sample or temp blank when opened: 5.8 *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) PN

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

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) MSM

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) MSM

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) MSM

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

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

BIS = Broken in shipment

TestAmerica Nashville
2960 Foster Creighton Drive

Nashville, TN 37204-3719
phone 615.726.0177 fax 615.726.3404

180325

Chain of Custody Record

Loc: 490
108893

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

8/10/2016

BALTIMORE

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

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: John Canzeri	Site Contact: Mike Parsons	11/10/2015	COC No:
AECOM	Tel/Fax: 301-289-3805	Lab Contact: Salomon, Sherry	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			Job / SDG No.:
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 + Oxy 8260	BTEX/MTBE	TPH-GRO 8015	Sample Specific Notes:
A/S INF	8/1/16	17:35	Grab	W	6	N	N	*		*	-1
A/S EFF		17:36	Grab	W	6	N	N	*		*	2
GAC-1 EFF		17:35	Grab	W	6	N	N	*		*	3
GAC-2 FINAL		17:30	Grab	W	6	N	N		*	*	4
MW-8		17:40	Grab	W	6	N	N	*		*	5
MW-9		17:45	Grab	W	6	N	N	*		*	6
MW-10		17:50	Grab	W	6	N	N	*		*	7
								2	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

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

Relinquished by:	Company: AECOM	Date/Time: 8-2-2016/1500	Received by:	Company: TestAmerica	Date/Time: 8-2-2016/1500
Relinquished by:	Company: TestAmerica	Date/Time: 8-2-2016/1525	Received by:	Company: TAN	Date/Time: 8-3-16 @ 0955 5.0c
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

Login Sample Receipt Checklist

Client: AECOM

Job Number: 490-108893-1
SDG Number: 125 Hanover Pike, Hampstead, MD

Login Number: 108893
List Number: 1
Creator: McBride, Mike

List Source: TestAmerica Nashville

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

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: 490-110107-1
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

Sherry M Salomon

Authorized for release by:
8/26/2016 2:02:37 PM

Sherry Salomon, Manager of Project Management Assistants
(615)301-5033
sherry.salomon@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: 490-110107-1
SDG: 125 Hanover Pike, Hampstead, MD

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
490-110107-1	A/S INF	Water	08/16/16 15:05	08/19/16 09:10
490-110107-2	A/S EFF	Water	08/16/16 15:01	08/19/16 09:10
490-110107-3	GAC-1 EFF	Water	08/16/16 14:55	08/19/16 09:10
490-110107-4	GAC-2 FINAL	Water	08/16/16 14:52	08/19/16 09:10
490-110107-5	MW-8	Water	08/16/16 15:45	08/19/16 09:10
490-110107-6	MW-9	Water	08/16/16 16:35	08/19/16 09:10
490-110107-7	MW-10	Water	08/16/16 15:11	08/19/16 09:10

Case Narrative

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

TestAmerica Job ID: 490-110107-1
SDG: 125 Hanover Pike, Hampstead, MD

Job ID: 490-110107-1

Laboratory: TestAmerica Nashville

Narrative

Job Narrative
490-110107-1

Comments
No additional comments.

Receipt
The samples were received on 8/19/2016 at 9:10 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 1.2º 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, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
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
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: 490-110107-1
SDG: 125 Hanover Pike, Hampstead, MD

Client Sample ID: A/S INF

Lab Sample ID: 490-110107-1

Date Collected: 08/16/16 15:05
Matrix: Water
Date Received: 08/19/16 09:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.00		ug/L			08/24/16 08:38	1
Diisopropyl ether	ND		2.00		ug/L			08/24/16 08:38	1
Ethylbenzene	ND		1.00		ug/L			08/24/16 08:38	1
Ethyl tert-butyl ether	ND		1.00		ug/L			08/24/16 08:38	1
Methyl tert-butyl ether	ND		1.00		ug/L			08/24/16 08:38	1
Tert-amyl methyl ether	ND		1.00		ug/L			08/24/16 08:38	1
tert-Butyl alcohol (TBA)	ND		10.0		ug/L			08/24/16 08:38	1
Toluene	ND		1.00		ug/L			08/24/16 08:38	1
Xylenes, Total	ND		3.00		ug/L			08/24/16 08:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*		*08/24/16 08:38*	*1*
Dibromofluoromethane (Surr)	*97*		*70 - 130*		*08/24/16 08:38*	*1*
1,2-Dichloroethane-d4 (Surr)	*79*		*70 - 130*		*08/24/16 08:38*	*1*
Toluene-d8 (Surr)	*96*		*70 - 130*		*08/24/16 08:38*	*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			08/26/16 01:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*89*		*50 - 150*		*08/26/16 01:43*	*1*

Client Sample Results

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

TestAmerica Job ID: 490-110107-1
SDG: 125 Hanover Pike, Hampstead, MD

Client Sample ID: A/S EFF

Lab Sample ID: 490-110107-2

Date Collected: 08/16/16 15:01
Matrix: Water
Date Received: 08/19/16 09:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.00		ug/L			08/24/16 05:53	1
Diisopropyl ether	ND		2.00		ug/L			08/24/16 05:53	1
Ethylbenzene	ND		1.00		ug/L			08/24/16 05:53	1
Ethyl tert-butyl ether	ND		1.00		ug/L			08/24/16 05:53	1
Methyl tert-butyl ether	ND		1.00		ug/L			08/24/16 05:53	1
Tert-amyl methyl ether	ND		1.00		ug/L			08/24/16 05:53	1
tert-Butyl alcohol (TBA)	ND		10.0		ug/L			08/24/16 05:53	1
Toluene	ND		1.00		ug/L			08/24/16 05:53	1
Xylenes, Total	ND		3.00		ug/L			08/24/16 05:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*		*08/24/16 05:53*	*1*
Dibromofluoromethane (Surr)	*98*		*70 - 130*		*08/24/16 05:53*	*1*
1,2-Dichloroethane-d4 (Surr)	*81*		*70 - 130*		*08/24/16 05:53*	*1*
Toluene-d8 (Surr)	*99*		*70 - 130*		*08/24/16 05:53*	*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			08/25/16 20:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*92*		*50 - 150*		*08/25/16 20:06*	*1*

Client Sample Results

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

TestAmerica Job ID: 490-110107-1
SDG: 125 Hanover Pike, Hampstead, MD

Client Sample ID: GAC-1 EFF

Lab Sample ID: 490-110107-3

Date Collected: 08/16/16 14:55
Matrix: Water
Date Received: 08/19/16 09:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.00		ug/L			08/24/16 06:21	1
Diisopropyl ether	ND		2.00		ug/L			08/24/16 06:21	1
Ethylbenzene	ND		1.00		ug/L			08/24/16 06:21	1
Ethyl tert-butyl ether	ND		1.00		ug/L			08/24/16 06:21	1
Methyl tert-butyl ether	ND		1.00		ug/L			08/24/16 06:21	1
Tert-amyl methyl ether	ND		1.00		ug/L			08/24/16 06:21	1
tert-Butyl alcohol (TBA)	ND		10.0		ug/L			08/24/16 06:21	1
Toluene	ND		1.00		ug/L			08/24/16 06:21	1
Xylenes, Total	ND		3.00		ug/L			08/24/16 06:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*		*08/24/16 06:21*	*1*
Dibromofluoromethane (Surr)	*96*		*70 - 130*		*08/24/16 06:21*	*1*
1,2-Dichloroethane-d4 (Surr)	*81*		*70 - 130*		*08/24/16 06:21*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*		*08/24/16 06:21*	*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			08/25/16 20:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*94*		*50 - 150*		*08/25/16 20:37*	*1*

Client Sample Results

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

TestAmerica Job ID: 490-110107-1
SDG: 125 Hanover Pike, Hampstead, MD

Client Sample ID: GAC-2 FINAL

Lab Sample ID: 490-110107-4

Date Collected: 08/16/16 14:52
Matrix: Water
Date Received: 08/19/16 09:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.00		ug/L			08/24/16 06:48	1
Ethylbenzene	ND		1.00		ug/L			08/24/16 06:48	1
Methyl tert-butyl ether	ND		1.00		ug/L			08/24/16 06:48	1
Toluene	ND		1.00		ug/L			08/24/16 06:48	1
Xylenes, Total	ND		3.00		ug/L			08/24/16 06:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*100*		*70 - 130*		*08/24/16 06:48*	*1*
Toluene-d8 (Surr)	*99*		*70 - 130*		*08/24/16 06:48*	*1*
1,2-Dichloroethane-d4 (Surr)	*82*		*70 - 130*		*08/24/16 06:48*	*1*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*		*08/24/16 06:48*	*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			08/25/16 22:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*94*		*50 - 150*		*08/25/16 22:39*	*1*

Client Sample Results

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

TestAmerica Job ID: 490-110107-1
SDG: 125 Hanover Pike, Hampstead, MD

Client Sample ID: MW-8

Lab Sample ID: 490-110107-5

Date Collected: 08/16/16 15:45
Matrix: Water
Date Received: 08/19/16 09:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.00		ug/L			08/24/16 07:16	1
Diisopropyl ether	**3.23**		2.00		ug/L			08/24/16 07:16	1
Ethylbenzene	ND		1.00		ug/L			08/24/16 07:16	1
Ethyl tert-butyl ether	ND		1.00		ug/L			08/24/16 07:16	1
Methyl tert-butyl ether	**125**		1.00		ug/L			08/24/16 07:16	1
Tert-amyl methyl ether	**2.06**		1.00		ug/L			08/24/16 07:16	1
tert-Butyl alcohol (TBA)	ND		10.0		ug/L			08/24/16 07:16	1
Toluene	ND		1.00		ug/L			08/24/16 07:16	1
Xylenes, Total	ND		3.00		ug/L			08/24/16 07:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*		*08/24/16 07:16*	*1*
Dibromofluoromethane (Surr)	*97*		*70 - 130*		*08/24/16 07:16*	*1*
1,2-Dichloroethane-d4 (Surr)	*81*		*70 - 130*		*08/24/16 07:16*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*		*08/24/16 07:16*	*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			08/25/16 23:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*92*		*50 - 150*		*08/25/16 23:10*	*1*

Client Sample Results

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

TestAmerica Job ID: 490-110107-1
SDG: 125 Hanover Pike, Hampstead, MD

Client Sample ID: MW-9

Lab Sample ID: 490-110107-6

Date Collected: 08/16/16 16:35
Matrix: Water
Date Received: 08/19/16 09:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.00		ug/L			08/24/16 07:43	1
Diisopropyl ether	ND		2.00		ug/L			08/24/16 07:43	1
Ethylbenzene	ND		1.00		ug/L			08/24/16 07:43	1
Ethyl tert-butyl ether	ND		1.00		ug/L			08/24/16 07:43	1
Methyl tert-butyl ether	**2.49**		1.00		ug/L			08/24/16 07:43	1
Tert-amyl methyl ether	ND		1.00		ug/L			08/24/16 07:43	1
tert-Butyl alcohol (TBA)	ND		10.0		ug/L			08/24/16 07:43	1
Toluene	ND		1.00		ug/L			08/24/16 07:43	1
Xylenes, Total	ND		3.00		ug/L			08/24/16 07:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*		*08/24/16 07:43*	*1*
Dibromofluoromethane (Surr)	*98*		*70 - 130*		*08/24/16 07:43*	*1*
1,2-Dichloroethane-d4 (Surr)	*82*		*70 - 130*		*08/24/16 07:43*	*1*
Toluene-d8 (Surr)	*98*		*70 - 130*		*08/24/16 07:43*	*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			08/25/16 23:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*91*		*50 - 150*		*08/25/16 23:40*	*1*

Client Sample Results

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

TestAmerica Job ID: 490-110107-1
SDG: 125 Hanover Pike, Hampstead, MD

Client Sample ID: MW-10

Lab Sample ID: 490-110107-7

Date Collected: 08/16/16 15:11
Matrix: Water
Date Received: 08/19/16 09:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.00		ug/L			08/24/16 08:10	1
Diisopropyl ether	ND		2.00		ug/L			08/24/16 08:10	1
Ethylbenzene	ND		1.00		ug/L			08/24/16 08:10	1
Ethyl tert-butyl ether	ND		1.00		ug/L			08/24/16 08:10	1
Methyl tert-butyl ether	ND		1.00		ug/L			08/24/16 08:10	1
Tert-amyl methyl ether	ND		1.00		ug/L			08/24/16 08:10	1
tert-Butyl alcohol (TBA)	ND		10.0		ug/L			08/24/16 08:10	1
Toluene	ND		1.00		ug/L			08/24/16 08:10	1
Xylenes, Total	ND		3.00		ug/L			08/24/16 08:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*		*08/24/16 08:10*	*1*
Dibromofluoromethane (Surr)	*98*		*70 - 130*		*08/24/16 08:10*	*1*
1,2-Dichloroethane-d4 (Surr)	*83*		*70 - 130*		*08/24/16 08:10*	*1*
Toluene-d8 (Surr)	*98*		*70 - 130*		*08/24/16 08:10*	*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			08/26/16 00:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*93*		*50 - 150*		*08/26/16 00:11*	*1*

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

Lab Sample ID: MB 490-364842/6
Matrix: Water
Analysis Batch: 364842

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			08/24/16 01:20	1
Diisopropyl ether	ND		2.00		ug/L			08/24/16 01:20	1
Ethylbenzene	ND		1.00		ug/L			08/24/16 01:20	1
Ethyl tert-butyl ether	ND		1.00		ug/L			08/24/16 01:20	1
Methyl tert-butyl ether	ND		1.00		ug/L			08/24/16 01:20	1
Tert-amyl methyl ether	ND		1.00		ug/L			08/24/16 01:20	1
tert-Butyl alcohol (TBA)	ND		10.0		ug/L			08/24/16 01:20	1
Toluene	ND		1.00		ug/L			08/24/16 01:20	1
Xylenes, Total	ND		3.00		ug/L			08/24/16 01:20	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*98*		*70 - 130*		*08/24/16 01:20*	*1*
1,2-Dichloroethane-d4 (Surr)	*82*		*70 - 130*		*08/24/16 01:20*	*1*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*		*08/24/16 01:20*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*		*08/24/16 01:20*	*1*

Lab Sample ID: LCS 490-364842/3
Matrix: Water
Analysis Batch: 364842

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	55.57		ug/L		111	70 - 130
Diisopropyl ether	50.0	43.15		ug/L		86	66 - 142
Ethylbenzene	50.0	55.25		ug/L		110	70 - 130
Ethyl tert-butyl ether	50.0	43.11		ug/L		86	63 - 135
Methyl tert-butyl ether	50.0	45.40		ug/L		91	70 - 130
Tert-amyl methyl ether	50.0	50.16		ug/L		100	63 - 135
tert-Butyl alcohol (TBA)	500	386.8		ug/L		77	12 - 150
Toluene	50.0	56.08		ug/L		112	70 - 130
Xylenes, Total	150	153.4		ug/L		102	70 - 132

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*98*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*88*		*70 - 130*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*
Toluene-d8 (Surr)	*98*		*70 - 130*

Lab Sample ID: LCSD 490-364842/4
Matrix: Water
Analysis Batch: 364842

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	56.45		ug/L		113	70 - 130	2	12
Diisopropyl ether	50.0	43.10		ug/L		86	66 - 142	0	14
Ethylbenzene	50.0	54.61		ug/L		109	70 - 130	1	12
Ethyl tert-butyl ether	50.0	43.60		ug/L		87	63 - 135	1	15
Methyl tert-butyl ether	50.0	47.29		ug/L		95	70 - 130	4	16

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

Lab Sample ID: LCSD 490-364842/4 — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 364842

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Tert-amyl methyl ether			50.0	50.66		ug/L		101	63 - 135	1	15
tert-Butyl alcohol (TBA)			500	395.7		ug/L		79	12 - 150	2	46
Toluene			50.0	55.41		ug/L		111	70 - 130	1	13
Xylenes, Total			150	153.0		ug/L		102	70 - 132	0	11

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*95*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*88*		*70 - 130*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*
Toluene-d8 (Surr)	*97*		*70 - 130*

Lab Sample ID: 490-110107-4 MS — **Client Sample ID: GAC-2 FINAL**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 364842

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene	ND		50.0	49.77		ug/L		100	55 - 147		
Diisopropyl ether	ND		50.0	37.34		ug/L		75	56 - 142		
Ethylbenzene	ND		50.0	47.33		ug/L		95	65 - 139		
Ethyl tert-butyl ether	ND		50.0	36.52		ug/L		73	53 - 138		
Methyl tert-butyl ether	ND		50.0	37.87		ug/L		76	55 - 141		
Tert-amyl methyl ether	ND		50.0	41.53		ug/L		83	47 - 148		
tert-Butyl alcohol (TBA)	ND		500	404.1		ug/L		81	10 - 150		
Toluene	ND		50.0	49.06		ug/L		98	64 - 136		
Xylenes, Total	ND		150	132.7		ug/L		88	69 - 132		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*100*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*86*		*70 - 130*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*
Toluene-d8 (Surr)	*100*		*70 - 130*

Lab Sample ID: 490-110107-4 MSD — **Client Sample ID: GAC-2 FINAL**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 364842

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	ND		50.0	52.72		ug/L		105	55 - 147	6	22
Diisopropyl ether	ND		50.0	41.69		ug/L		83	56 - 142	11	22
Ethylbenzene	ND		50.0	50.45		ug/L		101	65 - 139	6	18
Ethyl tert-butyl ether	ND		50.0	41.80		ug/L		84	53 - 138	13	22
Methyl tert-butyl ether	ND		50.0	47.17		ug/L		94	55 - 141	22	24
Tert-amyl methyl ether	ND		50.0	51.17		ug/L		102	47 - 148	21	23
tert-Butyl alcohol (TBA)	ND		500	617.6		ug/L		124	10 - 150	42	47
Toluene	ND		50.0	51.88		ug/L		104	64 - 136	6	18
Xylenes, Total	ND		150	141.0		ug/L		94	69 - 132	6	17

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

Lab Sample ID: 490-110107-4 MSD
Matrix: Water
Analysis Batch: 364842

Client Sample ID: GAC-2 FINAL
Prep Type: Total/NA

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*99*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*90*		*70 - 130*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*
Toluene-d8 (Surr)	*99*		*70 - 130*

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

Lab Sample ID: MB 490-365322/20
Matrix: Water
Analysis Batch: 365322

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			08/25/16 19:35	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*93*		*50 - 150*		*08/25/16 19:35*	*1*

Lab Sample ID: LCS 490-365322/8
Matrix: Water
Analysis Batch: 365322

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics [C6 - C10]			1000	1030		ug/L		103	66 - 140		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
a,a,a-Trifluorotoluene	*119*		*50 - 150*

Lab Sample ID: LCSD 490-365322/9
Matrix: Water
Analysis Batch: 365322

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
Gasoline Range Organics [C6 - C10]			1000	1011		ug/L		101	66 - 140	2	42

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
a,a,a-Trifluorotoluene	*117*		*50 - 150*

Lab Sample ID: 490-110107-3 MS
Matrix: Water
Analysis Batch: 365322

Client Sample ID: GAC-1 EFF
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics [C6 - C10]	ND		1000	939.4		ug/L		94	33 - 175		

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

Lab Sample ID: 490-110107-3 MS
Matrix: Water
Analysis Batch: 365322

Client Sample ID: GAC-1 EFF
Prep Type: Total/NA

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
a,a,a-Trifluorotoluene	*116*		*50 - 150*

Lab Sample ID: 490-110107-3 MSD
Matrix: Water
Analysis Batch: 365322

Client Sample ID: GAC-1 EFF
Prep Type: Total/NA

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	1051		ug/L		105	33 - 175	11	42

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
a,a,a-Trifluorotoluene	*113*		*50 - 150*

QC Association Summary

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

TestAmerica Job ID: 490-110107-1
SDG: 125 Hanover Pike, Hampstead, MD

GC/MS VOA

Analysis Batch: 364842

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-110107-1	A/S INF	Total/NA	Water	8260B	
490-110107-2	A/S EFF	Total/NA	Water	8260B	
490-110107-3	GAC-1 EFF	Total/NA	Water	8260B	
490-110107-4	GAC-2 FINAL	Total/NA	Water	8260B	
490-110107-5	MW-8	Total/NA	Water	8260B	
490-110107-6	MW-9	Total/NA	Water	8260B	
490-110107-7	MW-10	Total/NA	Water	8260B	
MB 490-364842/6	Method Blank	Total/NA	Water	8260B	
LCS 490-364842/3	Lab Control Sample	Total/NA	Water	8260B	
LCSD 490-364842/4	Lab Control Sample Dup	Total/NA	Water	8260B	
490-110107-4 MS	GAC-2 FINAL	Total/NA	Water	8260B	
490-110107-4 MSD	GAC-2 FINAL	Total/NA	Water	8260B	

GC VOA

Analysis Batch: 365322

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-110107-1	A/S INF	Total/NA	Water	8015C	
490-110107-2	A/S EFF	Total/NA	Water	8015C	
490-110107-3	GAC-1 EFF	Total/NA	Water	8015C	
490-110107-4	GAC-2 FINAL	Total/NA	Water	8015C	
490-110107-5	MW-8	Total/NA	Water	8015C	
490-110107-6	MW-9	Total/NA	Water	8015C	
490-110107-7	MW-10	Total/NA	Water	8015C	
MB 490-365322/20	Method Blank	Total/NA	Water	8015C	
LCS 490-365322/8	Lab Control Sample	Total/NA	Water	8015C	
LCSD 490-365322/9	Lab Control Sample Dup	Total/NA	Water	8015C	
490-110107-3 MS	GAC-1 EFF	Total/NA	Water	8015C	
490-110107-3 MSD	GAC-1 EFF	Total/NA	Water	8015C	

Lab Chronicle

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

TestAmerica Job ID: 490-110107-1
SDG: 125 Hanover Pike, Hampstead, MD

Client Sample ID: A/S INF — Lab Sample ID: 490-110107-1

Date Collected: 08/16/16 15:05 — **Matrix: Water**
Date Received: 08/19/16 09:10

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	364842	08/24/16 08:38	SLM	TAL NSH
Total/NA	Analysis	8015C		1	5 mL	5 mL	365322	08/26/16 01:43	GWM	TAL NSH

Client Sample ID: A/S EFF — Lab Sample ID: 490-110107-2

Date Collected: 08/16/16 15:01 — **Matrix: Water**
Date Received: 08/19/16 09:10

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	364842	08/24/16 05:53	SLM	TAL NSH
Total/NA	Analysis	8015C		1	5 mL	5 mL	365322	08/25/16 20:06	GWM	TAL NSH

Client Sample ID: GAC-1 EFF — Lab Sample ID: 490-110107-3

Date Collected: 08/16/16 14:55 — **Matrix: Water**
Date Received: 08/19/16 09:10

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	364842	08/24/16 06:21	SLM	TAL NSH
Total/NA	Analysis	8015C		1	5 mL	5 mL	365322	08/25/16 20:37	GWM	TAL NSH

Client Sample ID: GAC-2 FINAL — Lab Sample ID: 490-110107-4

Date Collected: 08/16/16 14:52 — **Matrix: Water**
Date Received: 08/19/16 09:10

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	364842	08/24/16 06:48	SLM	TAL NSH
Total/NA	Analysis	8015C		1	5 mL	5 mL	365322	08/25/16 22:39	GWM	TAL NSH

Client Sample ID: MW-8 — Lab Sample ID: 490-110107-5

Date Collected: 08/16/16 15:45 — **Matrix: Water**
Date Received: 08/19/16 09:10

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	364842	08/24/16 07:16	SLM	TAL NSH
Total/NA	Analysis	8015C		1	5 mL	5 mL	365322	08/25/16 23:10	GWM	TAL NSH

Client Sample ID: MW-9 — Lab Sample ID: 490-110107-6

Date Collected: 08/16/16 16:35 — **Matrix: Water**
Date Received: 08/19/16 09:10

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	364842	08/24/16 07:43	SLM	TAL NSH

Lab Chronicle

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

TestAmerica Job ID: 490-110107-1
SDG: 125 Hanover Pike, Hampstead, MD

Client Sample ID: MW-9

Lab Sample ID: 490-110107-6

Date Collected: 08/16/16 16:35
Matrix: Water
Date Received: 08/19/16 09:10

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	365322	08/25/16 23:40	GWM	TAL NSH

Client Sample ID: MW-10

Lab Sample ID: 490-110107-7

Date Collected: 08/16/16 15:11
Matrix: Water
Date Received: 08/19/16 09:10

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	364842	08/24/16 08:10	SLM	TAL NSH
Total/NA	Analysis	8015C		1	5 mL	5 mL	365322	08/26/16 00:11	GWM	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: 490-110107-1
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

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

Certification Summary

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

TestAmerica Job ID: 490-110107-1
SDG: 125 Hanover Pike, Hampstead, MD

Laboratory: TestAmerica Nashville

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

Authority	Program	EPA Region	Certification ID	Expiration Date
Maryland	State Program	3	316	03-31-17

The following analytes are included in this report, but 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	Diisopropyl ether
8260B		Water	Ethyl tert-butyl ether
8260B		Water	Ethylbenzene
8260B		Water	Methyl tert-butyl ether
8260B		Water	Tert-amyl methyl ether
8260B		Water	tert-Butyl alcohol (TBA)
8260B		Water	Toluene
8260B		Water	Xylenes, Total

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Nashville, TN

490-110107 Chain of Custody

Baltimore

COOLER RECEIPT FORM

Cooler Received/Opened On 8/19/2016 @ 0910

Time Samples Removed From Cooler 1319 Time Samples Placed In Storage 1349 (2 Hour Window)

1. Tracking # 6792 (last 4 digits, FedEx) Courier: FedEx

   IR Gun ID 17960358 pH Strip Lot HC58117 Chlorine Strip Lot 71130

2. Temperature of rep. sample or temp blank when opened: 1-2 *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) D

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

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) MDM

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) MDM

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) MDM

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

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

Proj #on labels. MDM

BIS = Broken in shipment
Cooler Receipt Form.doc

LF-1
End of Form

Revised 12/15/15

8/26/2016

Loc: 490
110107

8/26/2016

TestAmerica Nashville
2960 Foster Creighton Drive

Nashville, TN 37204-3719
phone 615.726.0177 fax 615.726.3404

180325

Chain of Custody Record

TestAm
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TestAmerica Laboratories, Inc.

BALTIMORE

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

8/16/16

Client Contact	Project Manager: John Canzeri	Site Contact: Mike Parsons	~~11/10/2015~~	COC No:
AECOM	Tel/Fax: 301-289-3805	Lab Contact: Salomon, Sherry	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			Job / SDG No.:
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 + Oxy 8260	BTEX/MTBE	TPH-GRO 8015	Sample Specific Notes:
A/S INF	8/16/16	1505	Grab	W	6	N	N	*		*	-1
A/S EFF		1501	Grab	W	6	N	N	*		*	2
GAC-1 EFF		1455	Grab	W	6	N	N	*		*	3
GAC-2 FINAL		1452	Grab	W	6	N	N		*	*	4
MW-8		1545	Grab	W	6	N	N	*		*	5
MW-9		1635	Grab	W	6	N	N	*		*	6
MW-10		1511	Grab	W	6	N	N	*		*	7
								2	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

Cooler bottle order #49489

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

Relinquished by:	Company: AECOM	Date/Time: 8/17/16	Received by:	Company:	Date/Time: 8/17/16 1400
Relinquished by:	Company: TestAmerica	Date/Time: 8-17-2016 22	Received by:	Company: TAN	Date/Time: 8-19-16@ 0910 1.2c
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

Login Sample Receipt Checklist

Client: AECOM

Job Number: 490-110107-1

SDG Number: 125 Hanover Pike, Hampstead, MD

Login Number: 110107

List Number: 1

Creator: McBride, Mike

List Source: TestAmerica Nashville

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

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ANALYTICAL REPORT

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

TestAmerica Job ID: 490-111235-1
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

Sherry M Salomon

Authorized for release by:
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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: 490-111235-1
SDG: 125 Hanover Pike, Hampstead, MD

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
490-111235-1	A/S INF	Water	09/03/16 11:19	09/07/16 09:25
490-111235-2	A/S EFF	Water	09/03/16 11:16	09/07/16 09:25
490-111235-3	GAC-1 EFF	Water	09/03/16 11:15	09/07/16 09:25
490-111235-4	GAC-2 FINAL	Water	09/03/16 11:09	09/07/16 09:25
490-111235-5	MW-8	Water	09/03/16 11:23	09/07/16 09:25
490-111235-6	MW-9	Water	09/03/16 11:24	09/07/16 09:25
490-111235-7	MW-10	Water	09/03/16 11:25	09/07/16 09:25

Case Narrative

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

TestAmerica Job ID: 490-111235-1
SDG: 125 Hanover Pike, Hampstead, MD

Job ID: 490-111235-1

Laboratory: TestAmerica Nashville

Narrative

Job Narrative
490-111235-1

Comments
No additional comments.

Receipt
The samples were received on 9/7/2016 at 9:25 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.6º C.

Receipt Exceptions
The container labels for the following samples did not match the information listed on the Chain-of-Custody (COC): A/S INF (490-111235-1), A/S EFF (490-111235-2), GAC-1 EFF (490-111235-3), GAC-2 FINAL (490-111235-4), MW-8 (490-111235-5), MW-9 (490-111235-6) and MW-10 (490-111235-7). The sample collection times were not listed on the container labels. The samples were logged per the collection times listed on the COC.

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: 490-111235-1
SDG: 125 Hanover Pike, Hampstead, MD

Qualifiers

GC/MS VOA

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

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
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
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: 490-111235-1
SDG: 125 Hanover Pike, Hampstead, MD

Client Sample ID: A/S INF

Date Collected: 09/03/16 11:19
Date Received: 09/07/16 09:25

Lab Sample ID: 490-111235-1

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			09/10/16 07:06	1
Diisopropyl ether	ND		2.00		ug/L			09/10/16 07:06	1
Ethylbenzene	ND		1.00		ug/L			09/10/16 07:06	1
Ethyl tert-butyl ether	ND		1.00		ug/L			09/10/16 07:06	1
Methyl tert-butyl ether	**16.9**		1.00		ug/L			09/10/16 07:06	1
Tert-amyl methyl ether	ND		1.00		ug/L			09/10/16 07:06	1
tert-Butyl alcohol (TBA)	ND		10.0		ug/L			09/10/16 07:06	1
Toluene	ND		1.00		ug/L			09/10/16 07:06	1
Xylenes, Total	ND		3.00		ug/L			09/10/16 07:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*112*		*70 - 130*		*09/10/16 07:06*	*1*
Dibromofluoromethane (Surr)	*96*		*70 - 130*		*09/10/16 07:06*	*1*
1,2-Dichloroethane-d4 (Surr)	*95*		*70 - 130*		*09/10/16 07:06*	*1*
Toluene-d8 (Surr)	*104*		*70 - 130*		*09/10/16 07:06*	*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			09/08/16 23:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*106*		*50 - 150*		*09/08/16 23:50*	*1*

Client Sample Results

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

TestAmerica Job ID: 490-111235-1
SDG: 125 Hanover Pike, Hampstead, MD

Client Sample ID: A/S EFF

Date Collected: 09/03/16 11:16
Date Received: 09/07/16 09:25

Lab Sample ID: 490-111235-2

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			09/10/16 07:34	1
Diisopropyl ether	ND		2.00		ug/L			09/10/16 07:34	1
Ethylbenzene	ND		1.00		ug/L			09/10/16 07:34	1
Ethyl tert-butyl ether	ND		1.00		ug/L			09/10/16 07:34	1
Methyl tert-butyl ether	ND		1.00		ug/L			09/10/16 07:34	1
Tert-amyl methyl ether	ND		1.00		ug/L			09/10/16 07:34	1
tert-Butyl alcohol (TBA)	ND		10.0		ug/L			09/10/16 07:34	1
Toluene	ND		1.00		ug/L			09/10/16 07:34	1
Xylenes, Total	ND		3.00		ug/L			09/10/16 07:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*		*09/10/16 07:34*	*1*
Dibromofluoromethane (Surr)	*97*		*70 - 130*		*09/10/16 07:34*	*1*
1,2-Dichloroethane-d4 (Surr)	*95*		*70 - 130*		*09/10/16 07:34*	*1*
Toluene-d8 (Surr)	*105*		*70 - 130*		*09/10/16 07:34*	*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			09/09/16 00:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*104*		*50 - 150*		*09/09/16 00:20*	*1*

Client Sample Results

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

TestAmerica Job ID: 490-111235-1
SDG: 125 Hanover Pike, Hampstead, MD

Client Sample ID: GAC-1 EFF

Lab Sample ID: 490-111235-3

Date Collected: 09/03/16 11:15
Matrix: Water
Date Received: 09/07/16 09:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.00		ug/L			09/10/16 08:02	1
Diisopropyl ether	ND		2.00		ug/L			09/10/16 08:02	1
Ethylbenzene	ND		1.00		ug/L			09/10/16 08:02	1
Ethyl tert-butyl ether	ND		1.00		ug/L			09/10/16 08:02	1
Methyl tert-butyl ether	ND		1.00		ug/L			09/10/16 08:02	1
Tert-amyl methyl ether	ND		1.00		ug/L			09/10/16 08:02	1
tert-Butyl alcohol (TBA)	ND		10.0		ug/L			09/10/16 08:02	1
Toluene	ND		1.00		ug/L			09/10/16 08:02	1
Xylenes, Total	ND		3.00		ug/L			09/10/16 08:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*112*		*70 - 130*		*09/10/16 08:02*	*1*
Dibromofluoromethane (Surr)	*97*		*70 - 130*		*09/10/16 08:02*	*1*
1,2-Dichloroethane-d4 (Surr)	*94*		*70 - 130*		*09/10/16 08:02*	*1*
Toluene-d8 (Surr)	*105*		*70 - 130*		*09/10/16 08:02*	*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			09/09/16 00:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*105*		*50 - 150*		*09/09/16 00:51*	*1*

Client Sample Results

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

TestAmerica Job ID: 490-111235-1
SDG: 125 Hanover Pike, Hampstead, MD

Client Sample ID: GAC-2 FINAL

Lab Sample ID: 490-111235-4

Date Collected: 09/03/16 11:09
Matrix: Water
Date Received: 09/07/16 09:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.00		ug/L			09/10/16 06:37	1
Ethylbenzene	ND		1.00		ug/L			09/10/16 06:37	1
Methyl tert-butyl ether	ND		1.00		ug/L			09/10/16 06:37	1
Toluene	ND		1.00		ug/L			09/10/16 06:37	1
Xylenes, Total	ND		3.00		ug/L			09/10/16 06:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*97*		*70 - 130*		*09/10/16 06:37*	*1*
Toluene-d8 (Surr)	*104*		*70 - 130*		*09/10/16 06:37*	*1*
1,2-Dichloroethane-d4 (Surr)	*96*		*70 - 130*		*09/10/16 06:37*	*1*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*		*09/10/16 06:37*	*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			09/09/16 01:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*103*		*50 - 150*		*09/09/16 01:22*	*1*

Client Sample Results

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

TestAmerica Job ID: 490-111235-1
SDG: 125 Hanover Pike, Hampstead, MD

Client Sample ID: MW-8

Date Collected: 09/03/16 11:23
Date Received: 09/07/16 09:25

Lab Sample ID: 490-111235-5

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			09/13/16 04:19	1
Diisopropyl ether	**3.42**		2.00		ug/L			09/13/16 04:19	1
Ethylbenzene	ND		1.00		ug/L			09/13/16 04:19	1
Ethyl tert-butyl ether	ND		1.00		ug/L			09/13/16 04:19	1
Methyl tert-butyl ether	**84.4**		1.00		ug/L			09/13/16 04:19	1
Tert-amyl methyl ether	ND		1.00		ug/L			09/13/16 04:19	1
tert-Butyl alcohol (TBA)	ND		10.0		ug/L			09/13/16 04:19	1
Toluene	ND		1.00		ug/L			09/13/16 04:19	1
Xylenes, Total	ND		3.00		ug/L			09/13/16 04:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*		*09/13/16 04:19*	*1*
Dibromofluoromethane (Surr)	*96*		*70 - 130*		*09/13/16 04:19*	*1*
1,2-Dichloroethane-d4 (Surr)	*95*		*70 - 130*		*09/13/16 04:19*	*1*
Toluene-d8 (Surr)	*107*		*70 - 130*		*09/13/16 04:19*	*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			09/09/16 01:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*103*		*50 - 150*		*09/09/16 01:52*	*1*

Client Sample Results

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

TestAmerica Job ID: 490-111235-1
SDG: 125 Hanover Pike, Hampstead, MD

Client Sample ID: MW-9

Lab Sample ID: 490-111235-6

Date Collected: 09/03/16 11:24
Matrix: Water
Date Received: 09/07/16 09:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.00		ug/L			09/13/16 04:48	1
Diisopropyl ether	**2.34**		2.00		ug/L			09/13/16 04:48	1
Ethylbenzene	ND		1.00		ug/L			09/13/16 04:48	1
Ethyl tert-butyl ether	ND		1.00		ug/L			09/13/16 04:48	1
Methyl tert-butyl ether	**189**		1.00		ug/L			09/13/16 04:48	1
Tert-amyl methyl ether	**3.29**		1.00		ug/L			09/13/16 04:48	1
tert-Butyl alcohol (TBA)	ND		10.0		ug/L			09/13/16 04:48	1
Toluene	ND		1.00		ug/L			09/13/16 04:48	1
Xylenes, Total	ND		3.00		ug/L			09/13/16 04:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*		*09/13/16 04:48*	*1*
Dibromofluoromethane (Surr)	*97*		*70 - 130*		*09/13/16 04:48*	*1*
1,2-Dichloroethane-d4 (Surr)	*96*		*70 - 130*		*09/13/16 04:48*	*1*
Toluene-d8 (Surr)	*104*		*70 - 130*		*09/13/16 04:48*	*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]	**129**		100		ug/L			09/09/16 02:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*104*		*50 - 150*		*09/09/16 02:23*	*1*

Client Sample Results

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

TestAmerica Job ID: 490-111235-1
SDG: 125 Hanover Pike, Hampstead, MD

Client Sample ID: MW-10

Date Collected: 09/03/16 11:25
Date Received: 09/07/16 09:25

Lab Sample ID: 490-111235-7

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			09/09/16 20:13	1
Diisopropyl ether	ND		2.00		ug/L			09/09/16 20:13	1
Ethylbenzene	ND		1.00		ug/L			09/09/16 20:13	1
Ethyl tert-butyl ether	ND		1.00		ug/L			09/09/16 20:13	1
Methyl tert-butyl ether	ND		1.00		ug/L			09/09/16 20:13	1
Tert-amyl methyl ether	ND		1.00		ug/L			09/09/16 20:13	1
tert-Butyl alcohol (TBA)	ND		10.0		ug/L			09/09/16 20:13	1
Toluene	ND		1.00		ug/L			09/09/16 20:13	1
Xylenes, Total	ND		3.00		ug/L			09/09/16 20:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*113*		*70 - 130*		*09/09/16 20:13*	*1*
Dibromofluoromethane (Surr)	*95*		*70 - 130*		*09/09/16 20:13*	*1*
1,2-Dichloroethane-d4 (Surr)	*95*		*70 - 130*		*09/09/16 20:13*	*1*
Toluene-d8 (Surr)	*104*		*70 - 130*		*09/09/16 20:13*	*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			09/09/16 02:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*102*		*50 - 150*		*09/09/16 02:54*	*1*

QC Sample Results

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

TestAmerica Job ID: 490-111235-1
SDG: 125 Hanover Pike, Hampstead, MD

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

Lab Sample ID: MB 490-369001/7
Matrix: Water
Analysis Batch: 369001

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			09/09/16 17:23	1
Diisopropyl ether	ND		2.00		ug/L			09/09/16 17:23	1
Ethylbenzene	ND		1.00		ug/L			09/09/16 17:23	1
Ethyl tert-butyl ether	ND		1.00		ug/L			09/09/16 17:23	1
Methyl tert-butyl ether	ND		1.00		ug/L			09/09/16 17:23	1
Tert-amyl methyl ether	ND		1.00		ug/L			09/09/16 17:23	1
tert-Butyl alcohol (TBA)	ND		10.0		ug/L			09/09/16 17:23	1
Toluene	ND		1.00		ug/L			09/09/16 17:23	1
Xylenes, Total	ND		3.00		ug/L			09/09/16 17:23	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*97*		*70 - 130*		*09/09/16 17:23*	*1*
1,2-Dichloroethane-d4 (Surr)	*94*		*70 - 130*		*09/09/16 17:23*	*1*
4-Bromofluorobenzene (Surr)	*112*		*70 - 130*		*09/09/16 17:23*	*1*
Toluene-d8 (Surr)	*104*		*70 - 130*		*09/09/16 17:23*	*1*

Lab Sample ID: LCS 490-369001/3
Matrix: Water
Analysis Batch: 369001

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	19.31		ug/L		97	70 - 130
Diisopropyl ether	20.0	19.44		ug/L		97	66 - 142
Ethylbenzene	20.0	19.96		ug/L		100	70 - 130
Ethyl tert-butyl ether	20.0	18.25		ug/L		91	63 - 135
Methyl tert-butyl ether	20.0	17.51		ug/L		88	70 - 130
Tert-amyl methyl ether	20.0	18.43		ug/L		92	63 - 135
tert-Butyl alcohol (TBA)	200	187.5		ug/L		94	12 - 150
Toluene	20.0	20.19		ug/L		101	70 - 130
Xylenes, Total	40.0	40.29		ug/L		101	70 - 132

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*95*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*93*		*70 - 130*
4-Bromofluorobenzene (Surr)	*116*		*70 - 130*
Toluene-d8 (Surr)	*103*		*70 - 130*

Lab Sample ID: LCSD 490-369001/4
Matrix: Water
Analysis Batch: 369001

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	18.80		ug/L		94	70 - 130	3	12
Diisopropyl ether	20.0	19.13		ug/L		96	66 - 142	2	14
Ethylbenzene	20.0	19.39		ug/L		97	70 - 130	3	12
Ethyl tert-butyl ether	20.0	18.04		ug/L		90	63 - 135	1	15
Methyl tert-butyl ether	20.0	17.98		ug/L		90	70 - 130	3	16

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

Lab Sample ID: LCSD 490-369001/4
Matrix: Water
Analysis Batch: 369001

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
Tert-amyl methyl ether			20.0	18.74		ug/L		94	63 - 135	2	15
tert-Butyl alcohol (TBA)			200	199.5		ug/L		100	12 - 150	6	46
Toluene			20.0	19.37		ug/L		97	70 - 130	4	13
Xylenes, Total			40.0	39.06		ug/L		98	70 - 132	3	11

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*93*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*93*		*70 - 130*
4-Bromofluorobenzene (Surr)	*115*		*70 - 130*
Toluene-d8 (Surr)	*103*		*70 - 130*

Lab Sample ID: 490-111019-B-2 MS
Matrix: Water
Analysis Batch: 369001

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene	2.75		20.0	25.27		ug/L		113	55 - 147		
Diisopropyl ether	ND		20.0	21.91		ug/L		108	56 - 142		
Ethylbenzene	ND		20.0	23.31		ug/L		115	65 - 139		
Ethyl tert-butyl ether	ND		20.0	19.65		ug/L		98	53 - 138		
Methyl tert-butyl ether	1.60		20.0	19.84		ug/L		91	55 - 141		
Tert-amyl methyl ether	ND		20.0	19.81		ug/L		99	47 - 148		
tert-Butyl alcohol (TBA)	82.6		200	245.1		ug/L		81	10 - 150		
Toluene	ND		20.0	23.85		ug/L		119	64 - 136		
Xylenes, Total	ND		40.0	46.56		ug/L		116	69 - 132		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*93*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*90*		*70 - 130*
4-Bromofluorobenzene (Surr)	*117*		*70 - 130*
Toluene-d8 (Surr)	*105*		*70 - 130*

Lab Sample ID: 490-111019-C-2 MSD
Matrix: Water
Analysis Batch: 369001

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	2.75		20.0	24.04		ug/L		106	55 - 147	5	22
Diisopropyl ether	ND		20.0	20.96		ug/L		103	56 - 142	4	22
Ethylbenzene	ND		20.0	22.42		ug/L		110	65 - 139	4	18
Ethyl tert-butyl ether	ND		20.0	19.13		ug/L		96	53 - 138	3	22
Methyl tert-butyl ether	1.60		20.0	19.01		ug/L		87	55 - 141	4	24
Tert-amyl methyl ether	ND		20.0	18.82		ug/L		94	47 - 148	5	23
tert-Butyl alcohol (TBA)	82.6		200	258.1		ug/L		88	10 - 150	5	47
Toluene	ND		20.0	22.67		ug/L		113	64 - 136	5	18
Xylenes, Total	ND		40.0	44.73		ug/L		112	69 - 132	4	17

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

Lab Sample ID: 490-111019-C-2 MSD
Matrix: Water
Analysis Batch: 369001

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

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*93*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*90*		*70 - 130*
4-Bromofluorobenzene (Surr)	*117*		*70 - 130*
Toluene-d8 (Surr)	*105*		*70 - 130*

Lab Sample ID: MB 490-369059/7
Matrix: Water
Analysis Batch: 369059

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			09/10/16 06:09	1
Diisopropyl ether	ND		2.00		ug/L			09/10/16 06:09	1
Ethylbenzene	ND		1.00		ug/L			09/10/16 06:09	1
Ethyl tert-butyl ether	ND		1.00		ug/L			09/10/16 06:09	1
Methyl tert-butyl ether	ND		1.00		ug/L			09/10/16 06:09	1
Tert-amyl methyl ether	ND		1.00		ug/L			09/10/16 06:09	1
tert-Butyl alcohol (TBA)	ND		10.0		ug/L			09/10/16 06:09	1
Toluene	ND		1.00		ug/L			09/10/16 06:09	1
Xylenes, Total	ND		3.00		ug/L			09/10/16 06:09	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*96*		*70 - 130*		*09/10/16 06:09*	*1*
1,2-Dichloroethane-d4 (Surr)	*95*		*70 - 130*		*09/10/16 06:09*	*1*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*		*09/10/16 06:09*	*1*
Toluene-d8 (Surr)	*103*		*70 - 130*		*09/10/16 06:09*	*1*

Lab Sample ID: LCS 490-369059/3
Matrix: Water
Analysis Batch: 369059

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	20.18		ug/L		101	70 - 130
Diisopropyl ether	20.0	20.05		ug/L		100	66 - 142
Ethylbenzene	20.0	20.65		ug/L		103	70 - 130
Ethyl tert-butyl ether	20.0	18.32		ug/L		92	63 - 135
Methyl tert-butyl ether	20.0	17.27		ug/L		86	70 - 130
Tert-amyl methyl ether	20.0	17.74		ug/L		89	63 - 135
tert-Butyl alcohol (TBA)	200	171.8		ug/L		86	12 - 150
Toluene	20.0	21.09		ug/L		105	70 - 130
Xylenes, Total	40.0	41.42		ug/L		104	70 - 132

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*95*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*92*		*70 - 130*
4-Bromofluorobenzene (Surr)	*115*		*70 - 130*
Toluene-d8 (Surr)	*105*		*70 - 130*

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

Lab Sample ID: LCSD 490-369059/4
Matrix: Water
Analysis Batch: 369059

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	20.11		ug/L		101	70 - 130	0	12
Diisopropyl ether	20.0	19.70		ug/L		99	66 - 142	2	14
Ethylbenzene	20.0	20.94		ug/L		105	70 - 130	1	12
Ethyl tert-butyl ether	20.0	18.41		ug/L		92	63 - 135	0	15
Methyl tert-butyl ether	20.0	17.23		ug/L		86	70 - 130	0	16
Tert-amyl methyl ether	20.0	18.32		ug/L		92	63 - 135	3	15
tert-Butyl alcohol (TBA)	200	175.4		ug/L		88	12 - 150	2	46
Toluene	20.0	21.31		ug/L		107	70 - 130	1	13
Xylenes, Total	40.0	42.01		ug/L		105	70 - 132	1	11

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*93*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*92*		*70 - 130*
4-Bromofluorobenzene (Surr)	*116*		*70 - 130*
Toluene-d8 (Surr)	*105*		*70 - 130*

Lab Sample ID: 490-111235-4 MS
Matrix: Water
Analysis Batch: 369059

Client Sample ID: GAC-2 FINAL
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	ND		20.0	22.07		ug/L		110	55 - 147
Diisopropyl ether	ND		20.0	21.18		ug/L		106	56 - 142
Ethylbenzene	ND		20.0	22.39		ug/L		112	65 - 139
Ethyl tert-butyl ether	ND		20.0	19.18		ug/L		96	53 - 138
Methyl tert-butyl ether	ND		20.0	18.57		ug/L		93	55 - 141
Tert-amyl methyl ether	ND		20.0	18.33		ug/L		92	47 - 148
tert-Butyl alcohol (TBA)	ND		200	168.9		ug/L		84	10 - 150
Toluene	ND		20.0	23.01		ug/L		115	64 - 136
Xylenes, Total	ND		40.0	44.36		ug/L		111	69 - 132

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*95*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*94*		*70 - 130*
4-Bromofluorobenzene (Surr)	*113*		*70 - 130*
Toluene-d8 (Surr)	*102*		*70 - 130*

Lab Sample ID: 490-111235-4 MSD
Matrix: Water
Analysis Batch: 369059

Client Sample ID: GAC-2 FINAL
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		20.0	20.90		ug/L		104	55 - 147	5	22
Diisopropyl ether	ND		20.0	20.08		ug/L		100	56 - 142	5	22
Ethylbenzene	ND		20.0	21.31		ug/L		107	65 - 139	5	18
Ethyl tert-butyl ether	ND		20.0	18.68		ug/L		93	53 - 138	3	22
Methyl tert-butyl ether	ND		20.0	17.66		ug/L		88	55 - 141	5	24

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

Lab Sample ID: 490-111235-4 MSD — **Client Sample ID: GAC-2 FINAL**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 369059

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Tert-amyl methyl ether	ND		20.0	18.74		ug/L		94	47 - 148	2	23
tert-Butyl alcohol (TBA)	ND		200	191.9		ug/L		96	10 - 150	13	47
Toluene	ND		20.0	21.63		ug/L		108	64 - 136	6	18
Xylenes, Total	ND		40.0	42.46		ug/L		106	69 - 132	4	17

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*95*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*93*		*70 - 130*
4-Bromofluorobenzene (Surr)	*113*		*70 - 130*
Toluene-d8 (Surr)	*102*		*70 - 130*

Lab Sample ID: MB 490-369543/7 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 369543

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.00		ug/L			09/13/16 01:57	1
Diisopropyl ether	ND		2.00		ug/L			09/13/16 01:57	1
Ethylbenzene	ND		1.00		ug/L			09/13/16 01:57	1
Ethyl tert-butyl ether	ND		1.00		ug/L			09/13/16 01:57	1
Methyl tert-butyl ether	ND		1.00		ug/L			09/13/16 01:57	1
Tert-amyl methyl ether	ND		1.00		ug/L			09/13/16 01:57	1
tert-Butyl alcohol (TBA)	ND		10.0		ug/L			09/13/16 01:57	1
Toluene	ND		1.00		ug/L			09/13/16 01:57	1
Xylenes, Total	ND		3.00		ug/L			09/13/16 01:57	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*95*		*70 - 130*		*09/13/16 01:57*	*1*
1,2-Dichloroethane-d4 (Surr)	*93*		*70 - 130*		*09/13/16 01:57*	*1*
4-Bromofluorobenzene (Surr)	*112*		*70 - 130*		*09/13/16 01:57*	*1*
Toluene-d8 (Surr)	*103*		*70 - 130*		*09/13/16 01:57*	*1*

Lab Sample ID: LCS 490-369543/3 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 369543

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	20.0	19.12		ug/L		96	70 - 130
Diisopropyl ether	20.0	18.95		ug/L		95	66 - 142
Ethylbenzene	20.0	19.46		ug/L		97	70 - 130
Ethyl tert-butyl ether	20.0	17.72		ug/L		89	63 - 135
Methyl tert-butyl ether	20.0	16.97		ug/L		85	70 - 130
Tert-amyl methyl ether	20.0	17.65		ug/L		88	63 - 135
tert-Butyl alcohol (TBA)	200	170.2		ug/L		85	12 - 150
Toluene	20.0	20.07		ug/L		100	70 - 130
Xylenes, Total	40.0	39.14		ug/L		98	70 - 132

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

Lab Sample ID: LCS 490-369543/3
Matrix: Water
Analysis Batch: 369543

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

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*93*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*92*		*70 - 130*
4-Bromofluorobenzene (Surr)	*115*		*70 - 130*
Toluene-d8 (Surr)	*102*		*70 - 130*

Lab Sample ID: LCSD 490-369543/4
Matrix: Water
Analysis Batch: 369543

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	20.12		ug/L		101	70 - 130	5	12
Diisopropyl ether	20.0	19.62		ug/L		98	66 - 142	3	14
Ethylbenzene	20.0	20.55		ug/L		103	70 - 130	5	12
Ethyl tert-butyl ether	20.0	17.95		ug/L		90	63 - 135	1	15
Methyl tert-butyl ether	20.0	16.85		ug/L		84	70 - 130	1	16
Tert-amyl methyl ether	20.0	17.80		ug/L		89	63 - 135	1	15
tert-Butyl alcohol (TBA)	200	166.5		ug/L		83	12 - 150	2	46
Toluene	20.0	20.96		ug/L		105	70 - 130	4	13
Xylenes, Total	40.0	41.15		ug/L		103	70 - 132	5	11

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*95*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*93*		*70 - 130*
4-Bromofluorobenzene (Surr)	*115*		*70 - 130*
Toluene-d8 (Surr)	*105*		*70 - 130*

Lab Sample ID: 490-111235-5 MS
Matrix: Water
Analysis Batch: 369543

Client Sample ID: MW-8
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	ND		20.0	18.31		ug/L		92	55 - 147
Diisopropyl ether	3.42		20.0	21.04		ug/L		88	56 - 142
Ethylbenzene	ND		20.0	18.51		ug/L		93	65 - 139
Ethyl tert-butyl ether	ND		20.0	16.08		ug/L		80	53 - 138
Methyl tert-butyl ether	84.4		20.0	98.99	4	ug/L		73	55 - 141
Tert-amyl methyl ether	ND		20.0	16.40		ug/L		79	47 - 148
tert-Butyl alcohol (TBA)	ND		200	136.2		ug/L		68	10 - 150
Toluene	ND		20.0	18.87		ug/L		94	64 - 136
Xylenes, Total	ND		40.0	37.12		ug/L		93	69 - 132

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*94*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*94*		*70 - 130*
4-Bromofluorobenzene (Surr)	*113*		*70 - 130*
Toluene-d8 (Surr)	*102*		*70 - 130*

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

Lab Sample ID: 490-111235-5 MSD — **Client Sample ID: MW-8**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 369543

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	ND		20.0	21.80		ug/L		109	55 - 147	17	22
Diisopropyl ether	3.42		20.0	24.81		ug/L		107	56 - 142	16	22
Ethylbenzene	ND		20.0	21.94		ug/L		110	65 - 139	17	18
Ethyl tert-butyl ether	ND		20.0	19.63		ug/L		98	53 - 138	20	22
Methyl tert-butyl ether	84.4		20.0	105.8	4	ug/L		107	55 - 141	7	24
Tert-amyl methyl ether	ND		20.0	19.28		ug/L		94	47 - 148	16	23
tert-Butyl alcohol (TBA)	ND		200	192.8		ug/L		96	10 - 150	34	47
Toluene	ND		20.0	22.12		ug/L		111	64 - 136	16	18
Xylenes, Total	ND		40.0	43.92		ug/L		110	69 - 132	17	17

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*97*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*93*		*70 - 130*
4-Bromofluorobenzene (Surr)	*113*		*70 - 130*
Toluene-d8 (Surr)	*102*		*70 - 130*

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

Lab Sample ID: MB 490-368464/10 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 368464

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		100		ug/L			09/08/16 12:46	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*107*		*50 - 150*		*09/08/16 12:46*	*1*

Lab Sample ID: LCS 490-368464/6 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 368464

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics [C6 - C10]			1000	948.7		ug/L		95	66 - 140		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
a,a,a-Trifluorotoluene	*126*		*50 - 150*

Lab Sample ID: LCSD 490-368464/7 — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 368464

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics [C6 - C10]			1000	917.9		ug/L		92	66 - 140	3	42

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

Lab Sample ID: LCSD 490-368464/7
Matrix: Water
Analysis Batch: 368464

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

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
a,a,a-Trifluorotoluene	*126*		*50 - 150*

Lab Sample ID: 490-111135-G-8 MS
Matrix: Water
Analysis Batch: 368464

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics [C6 - C10]	ND		1000	348.1		ug/L		35	33 - 175		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
a,a,a-Trifluorotoluene	*105*		*50 - 150*

Lab Sample ID: 490-111135-H-8 MSD
Matrix: Water
Analysis Batch: 368464

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

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	347.8		ug/L		35	33 - 175	0	42

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
a,a,a-Trifluorotoluene	*103*		*50 - 150*

QC Association Summary

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

TestAmerica Job ID: 490-111235-1
SDG: 125 Hanover Pike, Hampstead, MD

GC/MS VOA

Analysis Batch: 369001

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-111235-7	MW-10	Total/NA	Water	8260B	
MB 490-369001/7	Method Blank	Total/NA	Water	8260B	
LCS 490-369001/3	Lab Control Sample	Total/NA	Water	8260B	
LCSD 490-369001/4	Lab Control Sample Dup	Total/NA	Water	8260B	
490-111019-B-2 MS	Matrix Spike	Total/NA	Water	8260B	
490-111019-C-2 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B	

Analysis Batch: 369059

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-111235-1	A/S INF	Total/NA	Water	8260B	
490-111235-2	A/S EFF	Total/NA	Water	8260B	
490-111235-3	GAC-1 EFF	Total/NA	Water	8260B	
490-111235-4	GAC-2 FINAL	Total/NA	Water	8260B	
MB 490-369059/7	Method Blank	Total/NA	Water	8260B	
LCS 490-369059/3	Lab Control Sample	Total/NA	Water	8260B	
LCSD 490-369059/4	Lab Control Sample Dup	Total/NA	Water	8260B	
490-111235-4 MS	GAC-2 FINAL	Total/NA	Water	8260B	
490-111235-4 MSD	GAC-2 FINAL	Total/NA	Water	8260B	

Analysis Batch: 369543

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-111235-5	MW-8	Total/NA	Water	8260B	
490-111235-6	MW-9	Total/NA	Water	8260B	
MB 490-369543/7	Method Blank	Total/NA	Water	8260B	
LCS 490-369543/3	Lab Control Sample	Total/NA	Water	8260B	
LCSD 490-369543/4	Lab Control Sample Dup	Total/NA	Water	8260B	
490-111235-5 MS	MW-8	Total/NA	Water	8260B	
490-111235-5 MSD	MW-8	Total/NA	Water	8260B	

GC VOA

Analysis Batch: 368464

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-111235-1	A/S INF	Total/NA	Water	8015C	
490-111235-2	A/S EFF	Total/NA	Water	8015C	
490-111235-3	GAC-1 EFF	Total/NA	Water	8015C	
490-111235-4	GAC-2 FINAL	Total/NA	Water	8015C	
490-111235-5	MW-8	Total/NA	Water	8015C	
490-111235-6	MW-9	Total/NA	Water	8015C	
490-111235-7	MW-10	Total/NA	Water	8015C	
MB 490-368464/10	Method Blank	Total/NA	Water	8015C	
LCS 490-368464/6	Lab Control Sample	Total/NA	Water	8015C	
LCSD 490-368464/7	Lab Control Sample Dup	Total/NA	Water	8015C	
490-111135-G-8 MS	Matrix Spike	Total/NA	Water	8015C	
490-111135-H-8 MSD	Matrix Spike Duplicate	Total/NA	Water	8015C	

Lab Chronicle

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

TestAmerica Job ID: 490-111235-1
SDG: 125 Hanover Pike, Hampstead, MD

Client Sample ID: A/S INF — Lab Sample ID: 490-111235-1

Date Collected: 09/03/16 11:19 — **Matrix: Water**
Date Received: 09/07/16 09:25

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	369059	09/10/16 07:06	RP	TAL NSH
Total/NA	Analysis	8015C		1	5 mL	5 mL	368464	09/08/16 23:50	AK1	TAL NSH

Client Sample ID: A/S EFF — Lab Sample ID: 490-111235-2

Date Collected: 09/03/16 11:16 — **Matrix: Water**
Date Received: 09/07/16 09:25

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	369059	09/10/16 07:34	RP	TAL NSH
Total/NA	Analysis	8015C		1	5 mL	5 mL	368464	09/09/16 00:20	AK1	TAL NSH

Client Sample ID: GAC-1 EFF — Lab Sample ID: 490-111235-3

Date Collected: 09/03/16 11:15 — **Matrix: Water**
Date Received: 09/07/16 09:25

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	369059	09/10/16 08:02	RP	TAL NSH
Total/NA	Analysis	8015C		1	5 mL	5 mL	368464	09/09/16 00:51	AK1	TAL NSH

Client Sample ID: GAC-2 FINAL — Lab Sample ID: 490-111235-4

Date Collected: 09/03/16 11:09 — **Matrix: Water**
Date Received: 09/07/16 09:25

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	369059	09/10/16 06:37	RP	TAL NSH
Total/NA	Analysis	8015C		1	5 mL	5 mL	368464	09/09/16 01:22	AK1	TAL NSH

Client Sample ID: MW-8 — Lab Sample ID: 490-111235-5

Date Collected: 09/03/16 11:23 — **Matrix: Water**
Date Received: 09/07/16 09:25

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	369543	09/13/16 04:19	AK1	TAL NSH
Total/NA	Analysis	8015C		1	5 mL	5 mL	368464	09/09/16 01:52	AK1	TAL NSH

Client Sample ID: MW-9 — Lab Sample ID: 490-111235-6

Date Collected: 09/03/16 11:24 — **Matrix: Water**
Date Received: 09/07/16 09:25

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	369543	09/13/16 04:48	AK1	TAL NSH

Lab Chronicle

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

TestAmerica Job ID: 490-111235-1
SDG: 125 Hanover Pike, Hampstead, MD

Client Sample ID: MW-9

Lab Sample ID: 490-111235-6
Date Collected: 09/03/16 11:24
Matrix: Water
Date Received: 09/07/16 09:25

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	368464	09/09/16 02:23	AK1	TAL NSH

Client Sample ID: MW-10

Lab Sample ID: 490-111235-7
Date Collected: 09/03/16 11:25
Matrix: Water
Date Received: 09/07/16 09:25

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	369001	09/09/16 20:13	NC	TAL NSH
Total/NA	Analysis	8015C		1	5 mL	5 mL	368464	09/09/16 02:54	AK1	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: 490-111235-1
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

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

Certification Summary

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

TestAmerica Job ID: 490-111235-1
SDG: 125 Hanover Pike, Hampstead, MD

Laboratory: TestAmerica Nashville

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

Authority	Program	EPA Region	Certification ID	Expiration Date
Maryland	State Program	3	316	03-31-17

The following analytes are included in this report, but 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	Diisopropyl ether
8260B		Water	Ethyl tert-butyl ether
8260B		Water	Ethylbenzene
8260B		Water	Methyl tert-butyl ether
8260B		Water	Tert-amyl methyl ether
8260B		Water	tert-Butyl alcohol (TBA)
8260B		Water	Toluene
8260B		Water	Xylenes, Total

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Nashville, TN

COOLER RECEIPT FORM

490-111235 Chain of Custody

Cooler Received/Opened On 9-7-16 @ 0925

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

1. Tracking # 3663 (last 4 digits, FedEx) Courier: _ FedEx_ ____ _

   IR Gun ID Raynger pH Strip Lot HC58117 Chlorine Strip Lot 71130

2. Temperature of rep. sample or temp blank when opened: 2.6 *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) PN

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

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) PN

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) PN

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) PN

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

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 12/15/15

180325

BALTIMORE

Chain of Custody Record

TestAmerica Nashville
2960 Foster Creighton Drive
Nashville, TN 37204-3719
phone 615.726.0177 fax 615.726.3404

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TestAmerica Laboratories, Inc.

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

NDP

Client Contact	Project Manager: John Canzeri	Site Contact: Mike Parsons	~~11/10/2015~~	COC No:
AECOM	Tel/Fax: 301-289-3805	Lab Contact: Salomon, Sherry	Carrier:	1 of 1 COCs
8000 Virginia Manor Rd., Suite 110	Analysis Turnaround Time			Sampler: M - Tatson
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			Job / SDG No.:
P O #	☐ 1 day			AECOM's Job #60338398

Loc: 490
111235

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 + Oxy 8260	BTEX/MTBE	TPH-GRO 8015	Sample Specific Notes:
A/S INF	9/3/16	11:19	Grab	W	6	N	N	*		*	
A/S EFF		11:46	Grab	W	6	N	N	*		*	
GAC-1 EFF		11:15	Grab	W	6	N	N	*		*	
GAC-2 FINAL		11:09	Grab	W	6	N	N		*	*	
MW-8		11:23	Grab	W	6	N	N	*		*	
MW-9		11:24	Grab	W	6	N	N	*		*	
MW-10		11:25	Grab	W	6	N	N	*		*	
								2	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

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: 9-5-2016 1023	Received by:	Company: TestAmerica	Date/Time: 9-5-2016 1025
Relinquished by:	Company: TestAmerica	Date/Time: 9/6/16 1730	Received by: 26	Company: TAN	Date/Time: 9-7-16 925
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

Form No. CA-C-WI-002, Rev. 4.6, dated 09/02/2015

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9/14/2016

Login Sample Receipt Checklist

Client: AECOM

Job Number: 490-111235-1
SDG Number: 125 Hanover Pike, Hampstead, MD

Login Number: 111235
List Number: 1
Creator: Ngo, Phiet

List Source: TestAmerica Nashville

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

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ANALYTICAL REPORT

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

TestAmerica Job ID: 490-111969-1
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

Sherry M Salomon

Authorized for release by:
9/23/2016 3:08:46 PM

Sherry Salomon, Manager of Project Management Assistants
(615)301-5033
sherry.salomon@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: 490-111969-1
SDG: 125 Hanover Pike, Hampstead, MD

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
490-111969-1	A/S INF	Water	09/16/16 13:20	09/17/16 09:50
490-111969-2	A/S EFF	Water	09/16/16 13:10	09/17/16 09:50
490-111969-3	GAC-1 EFF	Water	09/16/16 13:00	09/17/16 09:50
490-111969-4	GAC-2 FINAL	Water	09/16/16 12:50	09/17/16 09:50
490-111969-5	MW-1	Water	09/16/16 15:15	09/17/16 09:50
490-111969-6	MW-2	Water	09/16/16 16:00	09/17/16 09:50
490-111969-7	MW-3	Water	09/16/16 15:45	09/17/16 09:50
490-111969-8	MW-4	Water	09/16/16 15:30	09/17/16 09:50
490-111969-9	MW-5	Water	09/16/16 15:00	09/17/16 09:50
490-111969-10	MW-6	Water	09/16/16 16:40	09/17/16 09:50
490-111969-11	MW-7	Water	09/16/16 17:00	09/17/16 09:50
490-111969-12	MW-8	Water	09/16/16 13:30	09/17/16 09:50
490-111969-13	MW-9	Water	09/16/16 13:40	09/17/16 09:50
490-111969-14	MW-10	Water	09/16/16 13:50	09/17/16 09:50

Job ID: 490-111969-1

Laboratory: TestAmerica Nashville

Narrative

Job Narrative
490-111969-1

Comments
No additional comments.

Receipt
The samples were received on 9/17/2016 at 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.

Receipt Exceptions
One of 6 VOAs for the following sample was received broken: GAC-1 EFF (490-111969-3).

One of 6 VOAs for the following sample was received broken: MW-9 (490-111969-13).

GC/MS VOA
Method(s) 8015C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 490-371341.

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

GC VOA
Method(s) 8021B: Insufficient sample volumes were available to perform matrix spikes/matrix spike duplicates (MS/MSD) associated with analytical batches 490-371342 and 490-372291.

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

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

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, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
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
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: 490-111969-1
SDG: 125 Hanover Pike, Hampstead, MD

Client Sample ID: A/S INF

Date Collected: 09/16/16 13:20
Date Received: 09/17/16 09:50

Lab Sample ID: 490-111969-1

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			09/21/16 10:18	1
Diisopropyl ether	ND		2.00		ug/L			09/21/16 10:18	1
Ethylbenzene	ND		1.00		ug/L			09/21/16 10:18	1
Ethyl tert-butyl ether	ND		1.00		ug/L			09/21/16 10:18	1
Methyl tert-butyl ether	ND		1.00		ug/L			09/21/16 10:18	1
Tert-amyl methyl ether	ND		1.00		ug/L			09/21/16 10:18	1
tert-Butyl alcohol (TBA)	ND		10.0		ug/L			09/21/16 10:18	1
Toluene	ND		1.00		ug/L			09/21/16 10:18	1
Xylenes, Total	ND		3.00		ug/L			09/21/16 10:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*		*09/21/16 10:18*	*1*
Dibromofluoromethane (Surr)	*96*		*70 - 130*		*09/21/16 10:18*	*1*
1,2-Dichloroethane-d4 (Surr)	*97*		*70 - 130*		*09/21/16 10:18*	*1*
Toluene-d8 (Surr)	*99*		*70 - 130*		*09/21/16 10:18*	*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			09/20/16 19:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*89*		*50 - 150*		*09/20/16 19:49*	*1*

Client Sample Results

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

TestAmerica Job ID: 490-111969-1
SDG: 125 Hanover Pike, Hampstead, MD

Client Sample ID: A/S EFF

Date Collected: 09/16/16 13:10
Date Received: 09/17/16 09:50

Lab Sample ID: 490-111969-2

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			09/21/16 04:50	1
Diisopropyl ether	ND		2.00		ug/L			09/21/16 04:50	1
Ethylbenzene	ND		1.00		ug/L			09/21/16 04:50	1
Ethyl tert-butyl ether	ND		1.00		ug/L			09/21/16 04:50	1
Methyl tert-butyl ether	ND		1.00		ug/L			09/21/16 04:50	1
Tert-amyl methyl ether	ND		1.00		ug/L			09/21/16 04:50	1
tert-Butyl alcohol (TBA)	ND		10.0		ug/L			09/21/16 04:50	1
Toluene	ND		1.00		ug/L			09/21/16 04:50	1
Xylenes, Total	ND		3.00		ug/L			09/21/16 04:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*		*09/21/16 04:50*	*1*
Dibromofluoromethane (Surr)	*95*		*70 - 130*		*09/21/16 04:50*	*1*
1,2-Dichloroethane-d4 (Surr)	*96*		*70 - 130*		*09/21/16 04:50*	*1*
Toluene-d8 (Surr)	*101*		*70 - 130*		*09/21/16 04:50*	*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			09/20/16 20:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*88*		*50 - 150*		*09/20/16 20:22*	*1*

Client Sample Results

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

TestAmerica Job ID: 490-111969-1
SDG: 125 Hanover Pike, Hampstead, MD

Client Sample ID: GAC-1 EFF

Lab Sample ID: 490-111969-3

Date Collected: 09/16/16 13:00
Date Received: 09/17/16 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			09/21/16 04:21	1
Diisopropyl ether	ND		2.00		ug/L			09/21/16 04:21	1
Ethylbenzene	ND		1.00		ug/L			09/21/16 04:21	1
Ethyl tert-butyl ether	ND		1.00		ug/L			09/21/16 04:21	1
Methyl tert-butyl ether	ND		1.00		ug/L			09/21/16 04:21	1
Tert-amyl methyl ether	ND		1.00		ug/L			09/21/16 04:21	1
tert-Butyl alcohol (TBA)	ND		10.0		ug/L			09/21/16 04:21	1
Toluene	ND		1.00		ug/L			09/21/16 04:21	1
Xylenes, Total	ND		3.00		ug/L			09/21/16 04:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*		*09/21/16 04:21*	*1*
Dibromofluoromethane (Surr)	*96*		*70 - 130*		*09/21/16 04:21*	*1*
1,2-Dichloroethane-d4 (Surr)	*98*		*70 - 130*		*09/21/16 04:21*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*		*09/21/16 04:21*	*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			09/20/16 22:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*87*		*50 - 150*		*09/20/16 22:31*	*1*

Client Sample Results

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

TestAmerica Job ID: 490-111969-1
SDG: 125 Hanover Pike, Hampstead, MD

Client Sample ID: GAC-2 FINAL

Lab Sample ID: 490-111969-4

Date Collected: 09/16/16 12:50
Matrix: Water
Date Received: 09/17/16 09:50

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			09/20/16 21:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*99*		*50 - 150*		*09/20/16 21:03*	*1*

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.00		ug/L			09/20/16 21:03	1
Ethylbenzene	ND		1.00		ug/L			09/20/16 21:03	1
Methyl tert-butyl ether	ND		1.00		ug/L			09/23/16 03:59	1
Toluene	ND		1.00		ug/L			09/20/16 21:03	1
Xylenes, Total	ND		3.00		ug/L			09/20/16 21:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*102*		*50 - 150*		*09/20/16 21:03*	*1*
a,a,a-Trifluorotoluene	*97*		*50 - 150*		*09/23/16 03:59*	*1*

Client Sample Results

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

TestAmerica Job ID: 490-111969-1
SDG: 125 Hanover Pike, Hampstead, MD

Client Sample ID: MW-1

Date Collected: 09/16/16 15:15
Date Received: 09/17/16 09:50

Lab Sample ID: 490-111969-5

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		25.0		ug/L			09/21/16 05:20	1
Benzene	ND		1.00		ug/L			09/21/16 05:20	1
Bromochloromethane	ND		1.00		ug/L			09/21/16 05:20	1
Bromodichloromethane	ND		1.00		ug/L			09/21/16 05:20	1
Bromoform	ND		1.00		ug/L			09/21/16 05:20	1
Bromomethane	ND		1.00		ug/L			09/21/16 05:20	1
2-Butanone (MEK)	ND		50.0		ug/L			09/21/16 05:20	1
Carbon disulfide	ND		1.00		ug/L			09/21/16 05:20	1
Carbon tetrachloride	ND		1.00		ug/L			09/21/16 05:20	1
Chlorobenzene	ND		1.00		ug/L			09/21/16 05:20	1
Chlorodibromomethane	ND		1.00		ug/L			09/21/16 05:20	1
Chloroethane	ND		1.00		ug/L			09/21/16 05:20	1
Chloroform	ND		1.00		ug/L			09/21/16 05:20	1
Chloromethane	ND		1.00		ug/L			09/21/16 05:20	1
cis-1,2-Dichloroethene	ND		1.00		ug/L			09/21/16 05:20	1
cis-1,3-Dichloropropene	ND		1.00		ug/L			09/21/16 05:20	1
Cyclohexane	ND		5.00		ug/L			09/21/16 05:20	1
1,2-Dibromo-3-Chloropropane	ND		10.0		ug/L			09/21/16 05:20	1
1,2-Dibromoethane (EDB)	ND		1.00		ug/L			09/21/16 05:20	1
1,2-Dichlorobenzene	ND		1.00		ug/L			09/21/16 05:20	1
1,3-Dichlorobenzene	ND		1.00		ug/L			09/21/16 05:20	1
1,4-Dichlorobenzene	ND		1.00		ug/L			09/21/16 05:20	1
Dichlorodifluoromethane	ND		1.00		ug/L			09/21/16 05:20	1
1,1-Dichloroethane	ND		1.00		ug/L			09/21/16 05:20	1
1,2-Dichloroethane	ND		1.00		ug/L			09/21/16 05:20	1
1,1-Dichloroethene	ND		1.00		ug/L			09/21/16 05:20	1
1,2-Dichloropropane	ND		1.00		ug/L			09/21/16 05:20	1
Diisopropyl ether	ND		2.00		ug/L			09/21/16 05:20	1
Ethylbenzene	ND		1.00		ug/L			09/21/16 05:20	1
Ethyl tert-butyl ether	ND		1.00		ug/L			09/21/16 05:20	1
Freon 113	ND		1.00		ug/L			09/21/16 05:20	1
2-Hexanone	ND		10.0		ug/L			09/21/16 05:20	1
Isopropylbenzene	ND		1.00		ug/L			09/21/16 05:20	1
Methyl acetate	ND		10.0		ug/L			09/21/16 05:20	1
Methylcyclohexane	ND		5.00		ug/L			09/21/16 05:20	1
Methylene Chloride	ND		5.00		ug/L			09/21/16 05:20	1
4-Methyl-2-pentanone (MIBK)	ND		10.0		ug/L			09/21/16 05:20	1
Methyl tert-butyl ether	**5.09**		1.00		ug/L			09/21/16 05:20	1
Naphthalene	ND		5.00		ug/L			09/21/16 05:20	1
Styrene	ND		1.00		ug/L			09/21/16 05:20	1
Tert-amyl methyl ether	ND		1.00		ug/L			09/21/16 05:20	1
tert-Butyl alcohol (TBA)	ND		10.0		ug/L			09/21/16 05:20	1
1,1,2,2-Tetrachloroethane	ND		1.00		ug/L			09/21/16 05:20	1
Tetrachloroethene	ND		1.00		ug/L			09/21/16 05:20	1
Toluene	ND		1.00		ug/L			09/21/16 05:20	1
trans-1,2-Dichloroethene	ND		1.00		ug/L			09/21/16 05:20	1
trans-1,3-Dichloropropene	ND		1.00		ug/L			09/21/16 05:20	1
1,2,3-Trichlorobenzene	ND		1.00		ug/L			09/21/16 05:20	1
1,2,4-Trichlorobenzene	ND		1.00		ug/L			09/21/16 05:20	1

Client Sample Results

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

TestAmerica Job ID: 490-111969-1
SDG: 125 Hanover Pike, Hampstead, MD

Client Sample ID: MW-1

Date Collected: 09/16/16 15:15
Date Received: 09/17/16 09:50

Lab Sample ID: 490-111969-5

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.00		ug/L			09/21/16 05:20	1
1,1,2-Trichloroethane	ND		1.00		ug/L			09/21/16 05:20	1
Trichloroethene	ND		1.00		ug/L			09/21/16 05:20	1
Trichlorofluoromethane	ND		1.00		ug/L			09/21/16 05:20	1
Vinyl chloride	ND		1.00		ug/L			09/21/16 05:20	1
m,p-Xylene	ND		2.00		ug/L			09/21/16 05:20	1
o-Xylene	ND		1.00		ug/L			09/21/16 05:20	1
Xylenes, Total	ND		3.00		ug/L			09/21/16 05:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*		*09/21/16 05:20*	*1*
Dibromofluoromethane (Surr)	*97*		*70 - 130*		*09/21/16 05:20*	*1*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 130*		*09/21/16 05:20*	*1*
Toluene-d8 (Surr)	*101*		*70 - 130*		*09/21/16 05:20*	*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			09/20/16 23:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*89*		*50 - 150*		*09/20/16 23:03*	*1*

Client Sample Results

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

TestAmerica Job ID: 490-111969-1
SDG: 125 Hanover Pike, Hampstead, MD

Client Sample ID: MW-2

Date Collected: 09/16/16 16:00
Date Received: 09/17/16 09:50

Lab Sample ID: 490-111969-6

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		25.0		ug/L			09/21/16 05:50	1
Benzene	ND		1.00		ug/L			09/21/16 05:50	1
Bromochloromethane	ND		1.00		ug/L			09/21/16 05:50	1
Bromodichloromethane	ND		1.00		ug/L			09/21/16 05:50	1
Bromoform	ND		1.00		ug/L			09/21/16 05:50	1
Bromomethane	ND		1.00		ug/L			09/21/16 05:50	1
2-Butanone (MEK)	ND		50.0		ug/L			09/21/16 05:50	1
Carbon disulfide	ND		1.00		ug/L			09/21/16 05:50	1
Carbon tetrachloride	ND		1.00		ug/L			09/21/16 05:50	1
Chlorobenzene	ND		1.00		ug/L			09/21/16 05:50	1
Chlorodibromomethane	ND		1.00		ug/L			09/21/16 05:50	1
Chloroethane	ND		1.00		ug/L			09/21/16 05:50	1
Chloroform	ND		1.00		ug/L			09/21/16 05:50	1
Chloromethane	ND		1.00		ug/L			09/21/16 05:50	1
cis-1,2-Dichloroethene	ND		1.00		ug/L			09/21/16 05:50	1
cis-1,3-Dichloropropene	ND		1.00		ug/L			09/21/16 05:50	1
Cyclohexane	ND		5.00		ug/L			09/21/16 05:50	1
1,2-Dibromo-3-Chloropropane	ND		10.0		ug/L			09/21/16 05:50	1
1,2-Dibromoethane (EDB)	ND		1.00		ug/L			09/21/16 05:50	1
1,2-Dichlorobenzene	ND		1.00		ug/L			09/21/16 05:50	1
1,3-Dichlorobenzene	ND		1.00		ug/L			09/21/16 05:50	1
1,4-Dichlorobenzene	ND		1.00		ug/L			09/21/16 05:50	1
Dichlorodifluoromethane	ND		1.00		ug/L			09/21/16 05:50	1
1,1-Dichloroethane	ND		1.00		ug/L			09/21/16 05:50	1
1,2-Dichloroethane	ND		1.00		ug/L			09/21/16 05:50	1
1,1-Dichloroethene	ND		1.00		ug/L			09/21/16 05:50	1
1,2-Dichloropropane	ND		1.00		ug/L			09/21/16 05:50	1
Diisopropyl ether	ND		2.00		ug/L			09/21/16 05:50	1
Ethylbenzene	ND		1.00		ug/L			09/21/16 05:50	1
Ethyl tert-butyl ether	ND		1.00		ug/L			09/21/16 05:50	1
Freon 113	ND		1.00		ug/L			09/21/16 05:50	1
2-Hexanone	ND		10.0		ug/L			09/21/16 05:50	1
Isopropylbenzene	ND		1.00		ug/L			09/21/16 05:50	1
Methyl acetate	ND		10.0		ug/L			09/21/16 05:50	1
Methylcyclohexane	ND		5.00		ug/L			09/21/16 05:50	1
Methylene Chloride	ND		5.00		ug/L			09/21/16 05:50	1
4-Methyl-2-pentanone (MIBK)	ND		10.0		ug/L			09/21/16 05:50	1
Methyl tert-butyl ether	ND		1.00		ug/L			09/21/16 05:50	1
Naphthalene	ND		5.00		ug/L			09/21/16 05:50	1
Styrene	ND		1.00		ug/L			09/21/16 05:50	1
Tert-amyl methyl ether	ND		1.00		ug/L			09/21/16 05:50	1
tert-Butyl alcohol (TBA)	ND		10.0		ug/L			09/21/16 05:50	1
1,1,2,2-Tetrachloroethane	ND		1.00		ug/L			09/21/16 05:50	1
Tetrachloroethene	ND		1.00		ug/L			09/21/16 05:50	1
Toluene	ND		1.00		ug/L			09/21/16 05:50	1
trans-1,2-Dichloroethene	ND		1.00		ug/L			09/21/16 05:50	1
trans-1,3-Dichloropropene	ND		1.00		ug/L			09/21/16 05:50	1
1,2,3-Trichlorobenzene	ND		1.00		ug/L			09/21/16 05:50	1
1,2,4-Trichlorobenzene	ND		1.00		ug/L			09/21/16 05:50	1

Client Sample Results

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

TestAmerica Job ID: 490-111969-1
SDG: 125 Hanover Pike, Hampstead, MD

Client Sample ID: MW-2

Date Collected: 09/16/16 16:00
Date Received: 09/17/16 09:50

Lab Sample ID: 490-111969-6

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.00		ug/L			09/21/16 05:50	1
1,1,2-Trichloroethane	ND		1.00		ug/L			09/21/16 05:50	1
Trichloroethene	ND		1.00		ug/L			09/21/16 05:50	1
Trichlorofluoromethane	ND		1.00		ug/L			09/21/16 05:50	1
Vinyl chloride	ND		1.00		ug/L			09/21/16 05:50	1
m,p-Xylene	ND		2.00		ug/L			09/21/16 05:50	1
o-Xylene	ND		1.00		ug/L			09/21/16 05:50	1
Xylenes, Total	ND		3.00		ug/L			09/21/16 05:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*		*09/21/16 05:50*	*1*
Dibromofluoromethane (Surr)	*96*		*70 - 130*		*09/21/16 05:50*	*1*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 130*		*09/21/16 05:50*	*1*
Toluene-d8 (Surr)	*101*		*70 - 130*		*09/21/16 05:50*	*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			09/20/16 23:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*89*		*50 - 150*		*09/20/16 23:35*	*1*

Client Sample Results

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

TestAmerica Job ID: 490-111969-1
SDG: 125 Hanover Pike, Hampstead, MD

Client Sample ID: MW-3

Date Collected: 09/16/16 15:45
Date Received: 09/17/16 09:50

Lab Sample ID: 490-111969-7

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		25.0		ug/L			09/21/16 06:20	1
Benzene	ND		1.00		ug/L			09/21/16 06:20	1
Bromochloromethane	ND		1.00		ug/L			09/21/16 06:20	1
Bromodichloromethane	ND		1.00		ug/L			09/21/16 06:20	1
Bromoform	ND		1.00		ug/L			09/21/16 06:20	1
Bromomethane	ND		1.00		ug/L			09/21/16 06:20	1
2-Butanone (MEK)	ND		50.0		ug/L			09/21/16 06:20	1
Carbon disulfide	ND		1.00		ug/L			09/21/16 06:20	1
Carbon tetrachloride	ND		1.00		ug/L			09/21/16 06:20	1
Chlorobenzene	ND		1.00		ug/L			09/21/16 06:20	1
Chlorodibromomethane	ND		1.00		ug/L			09/21/16 06:20	1
Chloroethane	ND		1.00		ug/L			09/21/16 06:20	1
Chloroform	ND		1.00		ug/L			09/21/16 06:20	1
Chloromethane	ND		1.00		ug/L			09/21/16 06:20	1
cis-1,2-Dichloroethene	ND		1.00		ug/L			09/21/16 06:20	1
cis-1,3-Dichloropropene	ND		1.00		ug/L			09/21/16 06:20	1
Cyclohexane	ND		5.00		ug/L			09/21/16 06:20	1
1,2-Dibromo-3-Chloropropane	ND		10.0		ug/L			09/21/16 06:20	1
1,2-Dibromoethane (EDB)	ND		1.00		ug/L			09/21/16 06:20	1
1,2-Dichlorobenzene	ND		1.00		ug/L			09/21/16 06:20	1
1,3-Dichlorobenzene	ND		1.00		ug/L			09/21/16 06:20	1
1,4-Dichlorobenzene	ND		1.00		ug/L			09/21/16 06:20	1
Dichlorodifluoromethane	ND		1.00		ug/L			09/21/16 06:20	1
1,1-Dichloroethane	ND		1.00		ug/L			09/21/16 06:20	1
1,2-Dichloroethane	ND		1.00		ug/L			09/21/16 06:20	1
1,1-Dichloroethene	ND		1.00		ug/L			09/21/16 06:20	1
1,2-Dichloropropane	ND		1.00		ug/L			09/21/16 06:20	1
Diisopropyl ether	ND		2.00		ug/L			09/21/16 06:20	1
Ethylbenzene	ND		1.00		ug/L			09/21/16 06:20	1
Ethyl tert-butyl ether	ND		1.00		ug/L			09/21/16 06:20	1
Freon 113	ND		1.00		ug/L			09/21/16 06:20	1
2-Hexanone	ND		10.0		ug/L			09/21/16 06:20	1
Isopropylbenzene	ND		1.00		ug/L			09/21/16 06:20	1
Methyl acetate	ND		10.0		ug/L			09/21/16 06:20	1
Methylcyclohexane	ND		5.00		ug/L			09/21/16 06:20	1
Methylene Chloride	ND		5.00		ug/L			09/21/16 06:20	1
4-Methyl-2-pentanone (MIBK)	ND		10.0		ug/L			09/21/16 06:20	1
Methyl tert-butyl ether	ND		1.00		ug/L			09/21/16 06:20	1
Naphthalene	ND		5.00		ug/L			09/21/16 06:20	1
Styrene	ND		1.00		ug/L			09/21/16 06:20	1
Tert-amyl methyl ether	ND		1.00		ug/L			09/21/16 06:20	1
tert-Butyl alcohol (TBA)	ND		10.0		ug/L			09/21/16 06:20	1
1,1,2,2-Tetrachloroethane	ND		1.00		ug/L			09/21/16 06:20	1
Tetrachloroethene	ND		1.00		ug/L			09/21/16 06:20	1
Toluene	ND		1.00		ug/L			09/21/16 06:20	1
trans-1,2-Dichloroethene	ND		1.00		ug/L			09/21/16 06:20	1
trans-1,3-Dichloropropene	ND		1.00		ug/L			09/21/16 06:20	1
1,2,3-Trichlorobenzene	ND		1.00		ug/L			09/21/16 06:20	1
1,2,4-Trichlorobenzene	ND		1.00		ug/L			09/21/16 06:20	1

Client Sample Results

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

TestAmerica Job ID: 490-111969-1
SDG: 125 Hanover Pike, Hampstead, MD

Client Sample ID: MW-3

Date Collected: 09/16/16 15:45
Date Received: 09/17/16 09:50

Lab Sample ID: 490-111969-7

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.00		ug/L			09/21/16 06:20	1
1,1,2-Trichloroethane	ND		1.00		ug/L			09/21/16 06:20	1
Trichloroethene	ND		1.00		ug/L			09/21/16 06:20	1
Trichlorofluoromethane	ND		1.00		ug/L			09/21/16 06:20	1
Vinyl chloride	ND		1.00		ug/L			09/21/16 06:20	1
m,p-Xylene	ND		2.00		ug/L			09/21/16 06:20	1
o-Xylene	ND		1.00		ug/L			09/21/16 06:20	1
Xylenes, Total	ND		3.00		ug/L			09/21/16 06:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*		*09/21/16 06:20*	*1*
Dibromofluoromethane (Surr)	*98*		*70 - 130*		*09/21/16 06:20*	*1*
1,2-Dichloroethane-d4 (Surr)	*97*		*70 - 130*		*09/21/16 06:20*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*		*09/21/16 06:20*	*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			09/21/16 00:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*89*		*50 - 150*		*09/21/16 00:07*	*1*

Client Sample Results

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

TestAmerica Job ID: 490-111969-1
SDG: 125 Hanover Pike, Hampstead, MD

Client Sample ID: MW-4

Date Collected: 09/16/16 15:30
Date Received: 09/17/16 09:50

Lab Sample ID: 490-111969-8

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		25.0		ug/L			09/21/16 06:50	1
Benzene	ND		1.00		ug/L			09/21/16 06:50	1
Bromochloromethane	ND		1.00		ug/L			09/21/16 06:50	1
Bromodichloromethane	ND		1.00		ug/L			09/21/16 06:50	1
Bromoform	ND		1.00		ug/L			09/21/16 06:50	1
Bromomethane	ND		1.00		ug/L			09/21/16 06:50	1
2-Butanone (MEK)	ND		50.0		ug/L			09/21/16 06:50	1
Carbon disulfide	ND		1.00		ug/L			09/21/16 06:50	1
Carbon tetrachloride	ND		1.00		ug/L			09/21/16 06:50	1
Chlorobenzene	ND		1.00		ug/L			09/21/16 06:50	1
Chlorodibromomethane	ND		1.00		ug/L			09/21/16 06:50	1
Chloroethane	ND		1.00		ug/L			09/21/16 06:50	1
Chloroform	ND		1.00		ug/L			09/21/16 06:50	1
Chloromethane	ND		1.00		ug/L			09/21/16 06:50	1
cis-1,2-Dichloroethene	ND		1.00		ug/L			09/21/16 06:50	1
cis-1,3-Dichloropropene	ND		1.00		ug/L			09/21/16 06:50	1
Cyclohexane	ND		5.00		ug/L			09/21/16 06:50	1
1,2-Dibromo-3-Chloropropane	ND		10.0		ug/L			09/21/16 06:50	1
1,2-Dibromoethane (EDB)	ND		1.00		ug/L			09/21/16 06:50	1
1,2-Dichlorobenzene	ND		1.00		ug/L			09/21/16 06:50	1
1,3-Dichlorobenzene	ND		1.00		ug/L			09/21/16 06:50	1
1,4-Dichlorobenzene	ND		1.00		ug/L			09/21/16 06:50	1
Dichlorodifluoromethane	ND		1.00		ug/L			09/21/16 06:50	1
1,1-Dichloroethane	ND		1.00		ug/L			09/21/16 06:50	1
1,2-Dichloroethane	ND		1.00		ug/L			09/21/16 06:50	1
1,1-Dichloroethene	ND		1.00		ug/L			09/21/16 06:50	1
1,2-Dichloropropane	ND		1.00		ug/L			09/21/16 06:50	1
Diisopropyl ether	ND		2.00		ug/L			09/21/16 06:50	1
Ethylbenzene	ND		1.00		ug/L			09/21/16 06:50	1
Ethyl tert-butyl ether	ND		1.00		ug/L			09/21/16 06:50	1
Freon 113	ND		1.00		ug/L			09/21/16 06:50	1
2-Hexanone	ND		10.0		ug/L			09/21/16 06:50	1
Isopropylbenzene	ND		1.00		ug/L			09/21/16 06:50	1
Methyl acetate	ND		10.0		ug/L			09/21/16 06:50	1
Methylcyclohexane	ND		5.00		ug/L			09/21/16 06:50	1
Methylene Chloride	ND		5.00		ug/L			09/21/16 06:50	1
4-Methyl-2-pentanone (MIBK)	ND		10.0		ug/L			09/21/16 06:50	1
Methyl tert-butyl ether	ND		1.00		ug/L			09/21/16 06:50	1
Naphthalene	ND		5.00		ug/L			09/21/16 06:50	1
Styrene	ND		1.00		ug/L			09/21/16 06:50	1
Tert-amyl methyl ether	ND		1.00		ug/L			09/21/16 06:50	1
tert-Butyl alcohol (TBA)	ND		10.0		ug/L			09/21/16 06:50	1
1,1,2,2-Tetrachloroethane	ND		1.00		ug/L			09/21/16 06:50	1
Tetrachloroethene	ND		1.00		ug/L			09/21/16 06:50	1
Toluene	ND		1.00		ug/L			09/21/16 06:50	1
trans-1,2-Dichloroethene	ND		1.00		ug/L			09/21/16 06:50	1
trans-1,3-Dichloropropene	ND		1.00		ug/L			09/21/16 06:50	1
1,2,3-Trichlorobenzene	ND		1.00		ug/L			09/21/16 06:50	1
1,2,4-Trichlorobenzene	ND		1.00		ug/L			09/21/16 06:50	1

Client Sample Results

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

TestAmerica Job ID: 490-111969-1
SDG: 125 Hanover Pike, Hampstead, MD

Client Sample ID: MW-4

Date Collected: 09/16/16 15:30
Date Received: 09/17/16 09:50

Lab Sample ID: 490-111969-8

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.00		ug/L			09/21/16 06:50	1
1,1,2-Trichloroethane	ND		1.00		ug/L			09/21/16 06:50	1
Trichloroethene	ND		1.00		ug/L			09/21/16 06:50	1
Trichlorofluoromethane	ND		1.00		ug/L			09/21/16 06:50	1
Vinyl chloride	ND		1.00		ug/L			09/21/16 06:50	1
m,p-Xylene	ND		2.00		ug/L			09/21/16 06:50	1
o-Xylene	ND		1.00		ug/L			09/21/16 06:50	1
Xylenes, Total	ND		3.00		ug/L			09/21/16 06:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*		*09/21/16 06:50*	*1*
Dibromofluoromethane (Surr)	*96*		*70 - 130*		*09/21/16 06:50*	*1*
1,2-Dichloroethane-d4 (Surr)	*98*		*70 - 130*		*09/21/16 06:50*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*		*09/21/16 06:50*	*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			09/21/16 00:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*88*		*50 - 150*		*09/21/16 00:39*	*1*

Client Sample Results

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

TestAmerica Job ID: 490-111969-1
SDG: 125 Hanover Pike, Hampstead, MD

Client Sample ID: MW-5

Date Collected: 09/16/16 15:00
Date Received: 09/17/16 09:50

Lab Sample ID: 490-111969-9

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		25.0		ug/L			09/21/16 07:49	1
Benzene	ND		1.00		ug/L			09/21/16 07:49	1
Bromochloromethane	ND		1.00		ug/L			09/21/16 07:49	1
Bromodichloromethane	ND		1.00		ug/L			09/21/16 07:49	1
Bromoform	ND		1.00		ug/L			09/21/16 07:49	1
Bromomethane	ND		1.00		ug/L			09/21/16 07:49	1
2-Butanone (MEK)	ND		50.0		ug/L			09/21/16 07:49	1
Carbon disulfide	ND		1.00		ug/L			09/21/16 07:49	1
Carbon tetrachloride	ND		1.00		ug/L			09/21/16 07:49	1
Chlorobenzene	ND		1.00		ug/L			09/21/16 07:49	1
Chlorodibromomethane	ND		1.00		ug/L			09/21/16 07:49	1
Chloroethane	ND		1.00		ug/L			09/21/16 07:49	1
Chloroform	ND		1.00		ug/L			09/21/16 07:49	1
Chloromethane	ND		1.00		ug/L			09/21/16 07:49	1
cis-1,2-Dichloroethene	ND		1.00		ug/L			09/21/16 07:49	1
cis-1,3-Dichloropropene	ND		1.00		ug/L			09/21/16 07:49	1
Cyclohexane	ND		5.00		ug/L			09/21/16 07:49	1
1,2-Dibromo-3-Chloropropane	ND		10.0		ug/L			09/21/16 07:49	1
1,2-Dibromoethane (EDB)	ND		1.00		ug/L			09/21/16 07:49	1
1,2-Dichlorobenzene	ND		1.00		ug/L			09/21/16 07:49	1
1,3-Dichlorobenzene	ND		1.00		ug/L			09/21/16 07:49	1
1,4-Dichlorobenzene	ND		1.00		ug/L			09/21/16 07:49	1
Dichlorodifluoromethane	ND		1.00		ug/L			09/21/16 07:49	1
1,1-Dichloroethane	ND		1.00		ug/L			09/21/16 07:49	1
1,2-Dichloroethane	ND		1.00		ug/L			09/21/16 07:49	1
1,1-Dichloroethene	ND		1.00		ug/L			09/21/16 07:49	1
1,2-Dichloropropane	ND		1.00		ug/L			09/21/16 07:49	1
Diisopropyl ether	ND		2.00		ug/L			09/21/16 07:49	1
Ethylbenzene	ND		1.00		ug/L			09/21/16 07:49	1
Ethyl tert-butyl ether	ND		1.00		ug/L			09/21/16 07:49	1
Freon 113	ND		1.00		ug/L			09/21/16 07:49	1
2-Hexanone	ND		10.0		ug/L			09/21/16 07:49	1
Isopropylbenzene	ND		1.00		ug/L			09/21/16 07:49	1
Methyl acetate	ND		10.0		ug/L			09/21/16 07:49	1
Methylcyclohexane	ND		5.00		ug/L			09/21/16 07:49	1
Methylene Chloride	ND		5.00		ug/L			09/21/16 07:49	1
4-Methyl-2-pentanone (MIBK)	ND		10.0		ug/L			09/21/16 07:49	1
Methyl tert-butyl ether	**2.19**		1.00		ug/L			09/21/16 07:49	1
Naphthalene	ND		5.00		ug/L			09/21/16 07:49	1
Styrene	ND		1.00		ug/L			09/21/16 07:49	1
Tert-amyl methyl ether	ND		1.00		ug/L			09/21/16 07:49	1
tert-Butyl alcohol (TBA)	ND		10.0		ug/L			09/21/16 07:49	1
1,1,2,2-Tetrachloroethane	ND		1.00		ug/L			09/21/16 07:49	1
Tetrachloroethene	ND		1.00		ug/L			09/21/16 07:49	1
Toluene	ND		1.00		ug/L			09/21/16 07:49	1
trans-1,2-Dichloroethene	ND		1.00		ug/L			09/21/16 07:49	1
trans-1,3-Dichloropropene	ND		1.00		ug/L			09/21/16 07:49	1
1,2,3-Trichlorobenzene	ND		1.00		ug/L			09/21/16 07:49	1
1,2,4-Trichlorobenzene	ND		1.00		ug/L			09/21/16 07:49	1

Client Sample Results

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

TestAmerica Job ID: 490-111969-1
SDG: 125 Hanover Pike, Hampstead, MD

Client Sample ID: MW-5

Date Collected: 09/16/16 15:00
Date Received: 09/17/16 09:50

Lab Sample ID: 490-111969-9

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.00		ug/L			09/21/16 07:49	1
1,1,2-Trichloroethane	ND		1.00		ug/L			09/21/16 07:49	1
Trichloroethene	ND		1.00		ug/L			09/21/16 07:49	1
Trichlorofluoromethane	ND		1.00		ug/L			09/21/16 07:49	1
Vinyl chloride	ND		1.00		ug/L			09/21/16 07:49	1
m,p-Xylene	ND		2.00		ug/L			09/21/16 07:49	1
o-Xylene	ND		1.00		ug/L			09/21/16 07:49	1
Xylenes, Total	ND		3.00		ug/L			09/21/16 07:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*		*09/21/16 07:49*	*1*
Dibromofluoromethane (Surr)	*96*		*70 - 130*		*09/21/16 07:49*	*1*
1,2-Dichloroethane-d4 (Surr)	*97*		*70 - 130*		*09/21/16 07:49*	*1*
Toluene-d8 (Surr)	*102*		*70 - 130*		*09/21/16 07:49*	*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			09/21/16 01:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*89*		*50 - 150*		*09/21/16 01:10*	*1*

Client Sample Results

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

TestAmerica Job ID: 490-111969-1
SDG: 125 Hanover Pike, Hampstead, MD

Client Sample ID: MW-6

Date Collected: 09/16/16 16:40
Date Received: 09/17/16 09:50

Lab Sample ID: 490-111969-10

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		25.0		ug/L			09/21/16 07:19	1
Benzene	ND		1.00		ug/L			09/21/16 07:19	1
Bromochloromethane	ND		1.00		ug/L			09/21/16 07:19	1
Bromodichloromethane	ND		1.00		ug/L			09/21/16 07:19	1
Bromoform	ND		1.00		ug/L			09/21/16 07:19	1
Bromomethane	ND		1.00		ug/L			09/21/16 07:19	1
2-Butanone (MEK)	ND		50.0		ug/L			09/21/16 07:19	1
Carbon disulfide	ND		1.00		ug/L			09/21/16 07:19	1
Carbon tetrachloride	ND		1.00		ug/L			09/21/16 07:19	1
Chlorobenzene	ND		1.00		ug/L			09/21/16 07:19	1
Chlorodibromomethane	ND		1.00		ug/L			09/21/16 07:19	1
Chloroethane	ND		1.00		ug/L			09/21/16 07:19	1
Chloroform	ND		1.00		ug/L			09/21/16 07:19	1
Chloromethane	ND		1.00		ug/L			09/21/16 07:19	1
cis-1,2-Dichloroethene	ND		1.00		ug/L			09/21/16 07:19	1
cis-1,3-Dichloropropene	ND		1.00		ug/L			09/21/16 07:19	1
Cyclohexane	ND		5.00		ug/L			09/21/16 07:19	1
1,2-Dibromo-3-Chloropropane	ND		10.0		ug/L			09/21/16 07:19	1
1,2-Dibromoethane (EDB)	ND		1.00		ug/L			09/21/16 07:19	1
1,2-Dichlorobenzene	ND		1.00		ug/L			09/21/16 07:19	1
1,3-Dichlorobenzene	ND		1.00		ug/L			09/21/16 07:19	1
1,4-Dichlorobenzene	ND		1.00		ug/L			09/21/16 07:19	1
Dichlorodifluoromethane	ND		1.00		ug/L			09/21/16 07:19	1
1,1-Dichloroethane	ND		1.00		ug/L			09/21/16 07:19	1
1,2-Dichloroethane	ND		1.00		ug/L			09/21/16 07:19	1
1,1-Dichloroethene	ND		1.00		ug/L			09/21/16 07:19	1
1,2-Dichloropropane	ND		1.00		ug/L			09/21/16 07:19	1
Diisopropyl ether	ND		2.00		ug/L			09/21/16 07:19	1
Ethylbenzene	ND		1.00		ug/L			09/21/16 07:19	1
Ethyl tert-butyl ether	ND		1.00		ug/L			09/21/16 07:19	1
Freon 113	ND		1.00		ug/L			09/21/16 07:19	1
2-Hexanone	ND		10.0		ug/L			09/21/16 07:19	1
Isopropylbenzene	ND		1.00		ug/L			09/21/16 07:19	1
Methyl acetate	ND		10.0		ug/L			09/21/16 07:19	1
Methylcyclohexane	ND		5.00		ug/L			09/21/16 07:19	1
Methylene Chloride	ND		5.00		ug/L			09/21/16 07:19	1
4-Methyl-2-pentanone (MIBK)	ND		10.0		ug/L			09/21/16 07:19	1
Methyl tert-butyl ether	**23.8**		1.00		ug/L			09/21/16 07:19	1
Naphthalene	ND		5.00		ug/L			09/21/16 07:19	1
Styrene	ND		1.00		ug/L			09/21/16 07:19	1
Tert-amyl methyl ether	ND		1.00		ug/L			09/21/16 07:19	1
tert-Butyl alcohol (TBA)	ND		10.0		ug/L			09/21/16 07:19	1
1,1,2,2-Tetrachloroethane	ND		1.00		ug/L			09/21/16 07:19	1
Tetrachloroethene	ND		1.00		ug/L			09/21/16 07:19	1
Toluene	ND		1.00		ug/L			09/21/16 07:19	1
trans-1,2-Dichloroethene	ND		1.00		ug/L			09/21/16 07:19	1
trans-1,3-Dichloropropene	ND		1.00		ug/L			09/21/16 07:19	1
1,2,3-Trichlorobenzene	ND		1.00		ug/L			09/21/16 07:19	1
1,2,4-Trichlorobenzene	ND		1.00		ug/L			09/21/16 07:19	1

Client Sample Results

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

TestAmerica Job ID: 490-111969-1
SDG: 125 Hanover Pike, Hampstead, MD

Client Sample ID: MW-6

Date Collected: 09/16/16 16:40
Date Received: 09/17/16 09:50

Lab Sample ID: 490-111969-10

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.00		ug/L			09/21/16 07:19	1
1,1,2-Trichloroethane	ND		1.00		ug/L			09/21/16 07:19	1
Trichloroethene	ND		1.00		ug/L			09/21/16 07:19	1
Trichlorofluoromethane	ND		1.00		ug/L			09/21/16 07:19	1
Vinyl chloride	ND		1.00		ug/L			09/21/16 07:19	1
m,p-Xylene	ND		2.00		ug/L			09/21/16 07:19	1
o-Xylene	ND		1.00		ug/L			09/21/16 07:19	1
Xylenes, Total	ND		3.00		ug/L			09/21/16 07:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*		*09/21/16 07:19*	*1*
Dibromofluoromethane (Surr)	*97*		*70 - 130*		*09/21/16 07:19*	*1*
1,2-Dichloroethane-d4 (Surr)	*96*		*70 - 130*		*09/21/16 07:19*	*1*
Toluene-d8 (Surr)	*102*		*70 - 130*		*09/21/16 07:19*	*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			09/21/16 01:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*87*		*50 - 150*		*09/21/16 01:42*	*1*

Client Sample Results

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

TestAmerica Job ID: 490-111969-1
SDG: 125 Hanover Pike, Hampstead, MD

Client Sample ID: MW-7

Date Collected: 09/16/16 17:00
Date Received: 09/17/16 09:50

Lab Sample ID: 490-111969-11

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		25.0		ug/L			09/21/16 08:19	1
Benzene	ND		1.00		ug/L			09/21/16 08:19	1
Bromochloromethane	ND		1.00		ug/L			09/21/16 08:19	1
Bromodichloromethane	ND		1.00		ug/L			09/21/16 08:19	1
Bromoform	ND		1.00		ug/L			09/21/16 08:19	1
Bromomethane	ND		1.00		ug/L			09/21/16 08:19	1
2-Butanone (MEK)	ND		50.0		ug/L			09/21/16 08:19	1
Carbon disulfide	ND		1.00		ug/L			09/21/16 08:19	1
Carbon tetrachloride	ND		1.00		ug/L			09/21/16 08:19	1
Chlorobenzene	ND		1.00		ug/L			09/21/16 08:19	1
Chlorodibromomethane	ND		1.00		ug/L			09/21/16 08:19	1
Chloroethane	ND		1.00		ug/L			09/21/16 08:19	1
Chloroform	ND		1.00		ug/L			09/21/16 08:19	1
Chloromethane	ND		1.00		ug/L			09/21/16 08:19	1
cis-1,2-Dichloroethene	ND		1.00		ug/L			09/21/16 08:19	1
cis-1,3-Dichloropropene	ND		1.00		ug/L			09/21/16 08:19	1
Cyclohexane	ND		5.00		ug/L			09/21/16 08:19	1
1,2-Dibromo-3-Chloropropane	ND		10.0		ug/L			09/21/16 08:19	1
1,2-Dibromoethane (EDB)	ND		1.00		ug/L			09/21/16 08:19	1
1,2-Dichlorobenzene	ND		1.00		ug/L			09/21/16 08:19	1
1,3-Dichlorobenzene	ND		1.00		ug/L			09/21/16 08:19	1
1,4-Dichlorobenzene	ND		1.00		ug/L			09/21/16 08:19	1
Dichlorodifluoromethane	ND		1.00		ug/L			09/21/16 08:19	1
1,1-Dichloroethane	ND		1.00		ug/L			09/21/16 08:19	1
1,2-Dichloroethane	ND		1.00		ug/L			09/21/16 08:19	1
1,1-Dichloroethene	ND		1.00		ug/L			09/21/16 08:19	1
1,2-Dichloropropane	ND		1.00		ug/L			09/21/16 08:19	1
Diisopropyl ether	ND		2.00		ug/L			09/21/16 08:19	1
Ethylbenzene	ND		1.00		ug/L			09/21/16 08:19	1
Ethyl tert-butyl ether	ND		1.00		ug/L			09/21/16 08:19	1
Freon 113	ND		1.00		ug/L			09/21/16 08:19	1
2-Hexanone	ND		10.0		ug/L			09/21/16 08:19	1
Isopropylbenzene	ND		1.00		ug/L			09/21/16 08:19	1
Methyl acetate	ND		10.0		ug/L			09/21/16 08:19	1
Methylcyclohexane	ND		5.00		ug/L			09/21/16 08:19	1
Methylene Chloride	ND		5.00		ug/L			09/21/16 08:19	1
4-Methyl-2-pentanone (MIBK)	ND		10.0		ug/L			09/21/16 08:19	1
Methyl tert-butyl ether	ND		1.00		ug/L			09/21/16 08:19	1
Naphthalene	ND		5.00		ug/L			09/21/16 08:19	1
Styrene	ND		1.00		ug/L			09/21/16 08:19	1
Tert-amyl methyl ether	ND		1.00		ug/L			09/21/16 08:19	1
tert-Butyl alcohol (TBA)	ND		10.0		ug/L			09/21/16 08:19	1
1,1,2,2-Tetrachloroethane	ND		1.00		ug/L			09/21/16 08:19	1
Tetrachloroethene	ND		1.00		ug/L			09/21/16 08:19	1
Toluene	ND		1.00		ug/L			09/21/16 08:19	1
trans-1,2-Dichloroethene	ND		1.00		ug/L			09/21/16 08:19	1
trans-1,3-Dichloropropene	ND		1.00		ug/L			09/21/16 08:19	1
1,2,3-Trichlorobenzene	ND		1.00		ug/L			09/21/16 08:19	1
1,2,4-Trichlorobenzene	ND		1.00		ug/L			09/21/16 08:19	1

Client Sample Results

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

TestAmerica Job ID: 490-111969-1
SDG: 125 Hanover Pike, Hampstead, MD

Client Sample ID: MW-7

Date Collected: 09/16/16 17:00
Date Received: 09/17/16 09:50

Lab Sample ID: 490-111969-11

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.00		ug/L			09/21/16 08:19	1
1,1,2-Trichloroethane	ND		1.00		ug/L			09/21/16 08:19	1
Trichloroethene	ND		1.00		ug/L			09/21/16 08:19	1
Trichlorofluoromethane	ND		1.00		ug/L			09/21/16 08:19	1
Vinyl chloride	ND		1.00		ug/L			09/21/16 08:19	1
m,p-Xylene	ND		2.00		ug/L			09/21/16 08:19	1
o-Xylene	ND		1.00		ug/L			09/21/16 08:19	1
Xylenes, Total	ND		3.00		ug/L			09/21/16 08:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*		*09/21/16 08:19*	*1*
Dibromofluoromethane (Surr)	*97*		*70 - 130*		*09/21/16 08:19*	*1*
1,2-Dichloroethane-d4 (Surr)	*95*		*70 - 130*		*09/21/16 08:19*	*1*
Toluene-d8 (Surr)	*101*		*70 - 130*		*09/21/16 08:19*	*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			09/21/16 02:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*87*		*50 - 150*		*09/21/16 02:14*	*1*

Client Sample Results

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

TestAmerica Job ID: 490-111969-1
SDG: 125 Hanover Pike, Hampstead, MD

Client Sample ID: MW-8

Date Collected: 09/16/16 13:30
Date Received: 09/17/16 09:50

Lab Sample ID: 490-111969-12

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		25.0		ug/L			09/21/16 09:19	1
Benzene	ND		1.00		ug/L			09/21/16 09:19	1
Bromochloromethane	ND		1.00		ug/L			09/21/16 09:19	1
Bromodichloromethane	ND		1.00		ug/L			09/21/16 09:19	1
Bromoform	ND		1.00		ug/L			09/21/16 09:19	1
Bromomethane	ND		1.00		ug/L			09/21/16 09:19	1
2-Butanone (MEK)	ND		50.0		ug/L			09/21/16 09:19	1
Carbon disulfide	ND		1.00		ug/L			09/21/16 09:19	1
Carbon tetrachloride	ND		1.00		ug/L			09/21/16 09:19	1
Chlorobenzene	ND		1.00		ug/L			09/21/16 09:19	1
Chlorodibromomethane	ND		1.00		ug/L			09/21/16 09:19	1
Chloroethane	ND		1.00		ug/L			09/21/16 09:19	1
Chloroform	ND		1.00		ug/L			09/21/16 09:19	1
Chloromethane	ND		1.00		ug/L			09/21/16 09:19	1
cis-1,2-Dichloroethene	ND		1.00		ug/L			09/21/16 09:19	1
cis-1,3-Dichloropropene	ND		1.00		ug/L			09/21/16 09:19	1
Cyclohexane	ND		5.00		ug/L			09/21/16 09:19	1
1,2-Dibromo-3-Chloropropane	ND		10.0		ug/L			09/21/16 09:19	1
1,2-Dibromoethane (EDB)	ND		1.00		ug/L			09/21/16 09:19	1
1,2-Dichlorobenzene	ND		1.00		ug/L			09/21/16 09:19	1
1,3-Dichlorobenzene	ND		1.00		ug/L			09/21/16 09:19	1
1,4-Dichlorobenzene	ND		1.00		ug/L			09/21/16 09:19	1
Dichlorodifluoromethane	ND		1.00		ug/L			09/21/16 09:19	1
1,1-Dichloroethane	ND		1.00		ug/L			09/21/16 09:19	1
1,2-Dichloroethane	ND		1.00		ug/L			09/21/16 09:19	1
1,1-Dichloroethene	ND		1.00		ug/L			09/21/16 09:19	1
1,2-Dichloropropane	ND		1.00		ug/L			09/21/16 09:19	1
Diisopropyl ether	ND		2.00		ug/L			09/21/16 09:19	1
Ethylbenzene	ND		1.00		ug/L			09/21/16 09:19	1
Ethyl tert-butyl ether	ND		1.00		ug/L			09/21/16 09:19	1
Freon 113	ND		1.00		ug/L			09/21/16 09:19	1
2-Hexanone	ND		10.0		ug/L			09/21/16 09:19	1
Isopropylbenzene	ND		1.00		ug/L			09/21/16 09:19	1
Methyl acetate	ND		10.0		ug/L			09/21/16 09:19	1
Methylcyclohexane	ND		5.00		ug/L			09/21/16 09:19	1
Methylene Chloride	ND		5.00		ug/L			09/21/16 09:19	1
4-Methyl-2-pentanone (MIBK)	ND		10.0		ug/L			09/21/16 09:19	1
Methyl tert-butyl ether	**3.25**		1.00		ug/L			09/21/16 09:19	1
Naphthalene	ND		5.00		ug/L			09/21/16 09:19	1
Styrene	ND		1.00		ug/L			09/21/16 09:19	1
Tert-amyl methyl ether	ND		1.00		ug/L			09/21/16 09:19	1
tert-Butyl alcohol (TBA)	ND		10.0		ug/L			09/21/16 09:19	1
1,1,2,2-Tetrachloroethane	ND		1.00		ug/L			09/21/16 09:19	1
Tetrachloroethene	ND		1.00		ug/L			09/21/16 09:19	1
Toluene	ND		1.00		ug/L			09/21/16 09:19	1
trans-1,2-Dichloroethene	ND		1.00		ug/L			09/21/16 09:19	1
trans-1,3-Dichloropropene	ND		1.00		ug/L			09/21/16 09:19	1
1,2,3-Trichlorobenzene	ND		1.00		ug/L			09/21/16 09:19	1
1,2,4-Trichlorobenzene	ND		1.00		ug/L			09/21/16 09:19	1

Client Sample Results

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

TestAmerica Job ID: 490-111969-1
SDG: 125 Hanover Pike, Hampstead, MD

Client Sample ID: MW-8

Date Collected: 09/16/16 13:30
Date Received: 09/17/16 09:50

Lab Sample ID: 490-111969-12

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.00		ug/L			09/21/16 09:19	1
1,1,2-Trichloroethane	ND		1.00		ug/L			09/21/16 09:19	1
Trichloroethene	ND		1.00		ug/L			09/21/16 09:19	1
Trichlorofluoromethane	ND		1.00		ug/L			09/21/16 09:19	1
Vinyl chloride	ND		1.00		ug/L			09/21/16 09:19	1
m,p-Xylene	ND		2.00		ug/L			09/21/16 09:19	1
o-Xylene	ND		1.00		ug/L			09/21/16 09:19	1
Xylenes, Total	ND		3.00		ug/L			09/21/16 09:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*		*09/21/16 09:19*	*1*
Dibromofluoromethane (Surr)	*97*		*70 - 130*		*09/21/16 09:19*	*1*
1,2-Dichloroethane-d4 (Surr)	*95*		*70 - 130*		*09/21/16 09:19*	*1*
Toluene-d8 (Surr)	*101*		*70 - 130*		*09/21/16 09:19*	*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			09/21/16 02:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*89*		*50 - 150*		*09/21/16 02:45*	*1*

Client Sample Results

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

TestAmerica Job ID: 490-111969-1
SDG: 125 Hanover Pike, Hampstead, MD

Client Sample ID: MW-9

Date Collected: 09/16/16 13:40
Date Received: 09/17/16 09:50

Lab Sample ID: 490-111969-13

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		25.0		ug/L			09/21/16 09:48	1
Benzene	ND		1.00		ug/L			09/21/16 09:48	1
Bromochloromethane	ND		1.00		ug/L			09/21/16 09:48	1
Bromodichloromethane	ND		1.00		ug/L			09/21/16 09:48	1
Bromoform	ND		1.00		ug/L			09/21/16 09:48	1
Bromomethane	ND		1.00		ug/L			09/21/16 09:48	1
2-Butanone (MEK)	ND		50.0		ug/L			09/21/16 09:48	1
Carbon disulfide	ND		1.00		ug/L			09/21/16 09:48	1
Carbon tetrachloride	ND		1.00		ug/L			09/21/16 09:48	1
Chlorobenzene	ND		1.00		ug/L			09/21/16 09:48	1
Chlorodibromomethane	ND		1.00		ug/L			09/21/16 09:48	1
Chloroethane	ND		1.00		ug/L			09/21/16 09:48	1
Chloroform	ND		1.00		ug/L			09/21/16 09:48	1
Chloromethane	ND		1.00		ug/L			09/21/16 09:48	1
cis-1,2-Dichloroethene	ND		1.00		ug/L			09/21/16 09:48	1
cis-1,3-Dichloropropene	ND		1.00		ug/L			09/21/16 09:48	1
Cyclohexane	ND		5.00		ug/L			09/21/16 09:48	1
1,2-Dibromo-3-Chloropropane	ND		10.0		ug/L			09/21/16 09:48	1
1,2-Dibromoethane (EDB)	ND		1.00		ug/L			09/21/16 09:48	1
1,2-Dichlorobenzene	ND		1.00		ug/L			09/21/16 09:48	1
1,3-Dichlorobenzene	ND		1.00		ug/L			09/21/16 09:48	1
1,4-Dichlorobenzene	ND		1.00		ug/L			09/21/16 09:48	1
Dichlorodifluoromethane	ND		1.00		ug/L			09/21/16 09:48	1
1,1-Dichloroethane	ND		1.00		ug/L			09/21/16 09:48	1
1,2-Dichloroethane	ND		1.00		ug/L			09/21/16 09:48	1
1,1-Dichloroethene	ND		1.00		ug/L			09/21/16 09:48	1
1,2-Dichloropropane	ND		1.00		ug/L			09/21/16 09:48	1
Diisopropyl ether	ND		2.00		ug/L			09/21/16 09:48	1
Ethylbenzene	ND		1.00		ug/L			09/21/16 09:48	1
Ethyl tert-butyl ether	ND		1.00		ug/L			09/21/16 09:48	1
Freon 113	ND		1.00		ug/L			09/21/16 09:48	1
2-Hexanone	ND		10.0		ug/L			09/21/16 09:48	1
Isopropylbenzene	ND		1.00		ug/L			09/21/16 09:48	1
Methyl acetate	ND		10.0		ug/L			09/21/16 09:48	1
Methylcyclohexane	ND		5.00		ug/L			09/21/16 09:48	1
Methylene Chloride	ND		5.00		ug/L			09/21/16 09:48	1
4-Methyl-2-pentanone (MIBK)	ND		10.0		ug/L			09/21/16 09:48	1
Methyl tert-butyl ether	**17.1**		1.00		ug/L			09/21/16 09:48	1
Naphthalene	ND		5.00		ug/L			09/21/16 09:48	1
Styrene	ND		1.00		ug/L			09/21/16 09:48	1
Tert-amyl methyl ether	ND		1.00		ug/L			09/21/16 09:48	1
tert-Butyl alcohol (TBA)	ND		10.0		ug/L			09/21/16 09:48	1
1,1,2,2-Tetrachloroethane	ND		1.00		ug/L			09/21/16 09:48	1
Tetrachloroethene	ND		1.00		ug/L			09/21/16 09:48	1
Toluene	ND		1.00		ug/L			09/21/16 09:48	1
trans-1,2-Dichloroethene	ND		1.00		ug/L			09/21/16 09:48	1
trans-1,3-Dichloropropene	ND		1.00		ug/L			09/21/16 09:48	1
1,2,3-Trichlorobenzene	ND		1.00		ug/L			09/21/16 09:48	1
1,2,4-Trichlorobenzene	ND		1.00		ug/L			09/21/16 09:48	1

Client Sample Results

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

TestAmerica Job ID: 490-111969-1
SDG: 125 Hanover Pike, Hampstead, MD

Client Sample ID: MW-9

Date Collected: 09/16/16 13:40
Date Received: 09/17/16 09:50

Lab Sample ID: 490-111969-13

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.00		ug/L			09/21/16 09:48	1
1,1,2-Trichloroethane	ND		1.00		ug/L			09/21/16 09:48	1
Trichloroethene	ND		1.00		ug/L			09/21/16 09:48	1
Trichlorofluoromethane	ND		1.00		ug/L			09/21/16 09:48	1
Vinyl chloride	ND		1.00		ug/L			09/21/16 09:48	1
m,p-Xylene	ND		2.00		ug/L			09/21/16 09:48	1
o-Xylene	ND		1.00		ug/L			09/21/16 09:48	1
Xylenes, Total	ND		3.00		ug/L			09/21/16 09:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*		*09/21/16 09:48*	*1*
Dibromofluoromethane (Surr)	*96*		*70 - 130*		*09/21/16 09:48*	*1*
1,2-Dichloroethane-d4 (Surr)	*97*		*70 - 130*		*09/21/16 09:48*	*1*
Toluene-d8 (Surr)	*101*		*70 - 130*		*09/21/16 09:48*	*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			09/21/16 03:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*87*		*50 - 150*		*09/21/16 03:17*	*1*

Client Sample Results

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

TestAmerica Job ID: 490-111969-1
SDG: 125 Hanover Pike, Hampstead, MD

Client Sample ID: MW-10

Date Collected: 09/16/16 13:50
Date Received: 09/17/16 09:50

Lab Sample ID: 490-111969-14

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		25.0		ug/L			09/21/16 08:49	1
Benzene	ND		1.00		ug/L			09/21/16 08:49	1
Bromochloromethane	ND		1.00		ug/L			09/21/16 08:49	1
Bromodichloromethane	ND		1.00		ug/L			09/21/16 08:49	1
Bromoform	ND		1.00		ug/L			09/21/16 08:49	1
Bromomethane	ND		1.00		ug/L			09/21/16 08:49	1
2-Butanone (MEK)	ND		50.0		ug/L			09/21/16 08:49	1
Carbon disulfide	ND		1.00		ug/L			09/21/16 08:49	1
Carbon tetrachloride	ND		1.00		ug/L			09/21/16 08:49	1
Chlorobenzene	ND		1.00		ug/L			09/21/16 08:49	1
Chlorodibromomethane	ND		1.00		ug/L			09/21/16 08:49	1
Chloroethane	ND		1.00		ug/L			09/21/16 08:49	1
Chloroform	ND		1.00		ug/L			09/21/16 08:49	1
Chloromethane	ND		1.00		ug/L			09/21/16 08:49	1
cis-1,2-Dichloroethene	ND		1.00		ug/L			09/21/16 08:49	1
cis-1,3-Dichloropropene	ND		1.00		ug/L			09/21/16 08:49	1
Cyclohexane	ND		5.00		ug/L			09/21/16 08:49	1
1,2-Dibromo-3-Chloropropane	ND		10.0		ug/L			09/21/16 08:49	1
1,2-Dibromoethane (EDB)	ND		1.00		ug/L			09/21/16 08:49	1
1,2-Dichlorobenzene	ND		1.00		ug/L			09/21/16 08:49	1
1,3-Dichlorobenzene	ND		1.00		ug/L			09/21/16 08:49	1
1,4-Dichlorobenzene	ND		1.00		ug/L			09/21/16 08:49	1
Dichlorodifluoromethane	ND		1.00		ug/L			09/21/16 08:49	1
1,1-Dichloroethane	ND		1.00		ug/L			09/21/16 08:49	1
1,2-Dichloroethane	ND		1.00		ug/L			09/21/16 08:49	1
1,1-Dichloroethene	ND		1.00		ug/L			09/21/16 08:49	1
1,2-Dichloropropane	ND		1.00		ug/L			09/21/16 08:49	1
Diisopropyl ether	ND		2.00		ug/L			09/21/16 08:49	1
Ethylbenzene	ND		1.00		ug/L			09/21/16 08:49	1
Ethyl tert-butyl ether	ND		1.00		ug/L			09/21/16 08:49	1
Freon 113	ND		1.00		ug/L			09/21/16 08:49	1
2-Hexanone	ND		10.0		ug/L			09/21/16 08:49	1
Isopropylbenzene	ND		1.00		ug/L			09/21/16 08:49	1
Methyl acetate	ND		10.0		ug/L			09/21/16 08:49	1
Methylcyclohexane	ND		5.00		ug/L			09/21/16 08:49	1
Methylene Chloride	ND		5.00		ug/L			09/21/16 08:49	1
4-Methyl-2-pentanone (MIBK)	ND		10.0		ug/L			09/21/16 08:49	1
Methyl tert-butyl ether	ND		1.00		ug/L			09/21/16 08:49	1
Naphthalene	ND		5.00		ug/L			09/21/16 08:49	1
Styrene	ND		1.00		ug/L			09/21/16 08:49	1
Tert-amyl methyl ether	ND		1.00		ug/L			09/21/16 08:49	1
tert-Butyl alcohol (TBA)	ND		10.0		ug/L			09/21/16 08:49	1
1,1,2,2-Tetrachloroethane	ND		1.00		ug/L			09/21/16 08:49	1
Tetrachloroethene	ND		1.00		ug/L			09/21/16 08:49	1
Toluene	ND		1.00		ug/L			09/21/16 08:49	1
trans-1,2-Dichloroethene	ND		1.00		ug/L			09/21/16 08:49	1
trans-1,3-Dichloropropene	ND		1.00		ug/L			09/21/16 08:49	1
1,2,3-Trichlorobenzene	ND		1.00		ug/L			09/21/16 08:49	1
1,2,4-Trichlorobenzene	ND		1.00		ug/L			09/21/16 08:49	1

Client Sample Results

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

TestAmerica Job ID: 490-111969-1
SDG: 125 Hanover Pike, Hampstead, MD

Client Sample ID: MW-10

Date Collected: 09/16/16 13:50
Date Received: 09/17/16 09:50

Lab Sample ID: 490-111969-14

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.00		ug/L			09/21/16 08:49	1
1,1,2-Trichloroethane	ND		1.00		ug/L			09/21/16 08:49	1
Trichloroethene	ND		1.00		ug/L			09/21/16 08:49	1
Trichlorofluoromethane	ND		1.00		ug/L			09/21/16 08:49	1
Vinyl chloride	ND		1.00		ug/L			09/21/16 08:49	1
m,p-Xylene	ND		2.00		ug/L			09/21/16 08:49	1
o-Xylene	ND		1.00		ug/L			09/21/16 08:49	1
Xylenes, Total	ND		3.00		ug/L			09/21/16 08:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*		*09/21/16 08:49*	*1*
Dibromofluoromethane (Surr)	*97*		*70 - 130*		*09/21/16 08:49*	*1*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 130*		*09/21/16 08:49*	*1*
Toluene-d8 (Surr)	*101*		*70 - 130*		*09/21/16 08:49*	*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			09/21/16 03:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*88*		*50 - 150*		*09/21/16 03:49*	*1*

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

Lab Sample ID: MB 490-371574/7
Matrix: Water
Analysis Batch: 371574

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		25.0		ug/L			09/21/16 03:21	1
Benzene	ND		1.00		ug/L			09/21/16 03:21	1
Bromochloromethane	ND		1.00		ug/L			09/21/16 03:21	1
Bromodichloromethane	ND		1.00		ug/L			09/21/16 03:21	1
Bromoform	ND		1.00		ug/L			09/21/16 03:21	1
Bromomethane	ND		1.00		ug/L			09/21/16 03:21	1
2-Butanone (MEK)	ND		50.0		ug/L			09/21/16 03:21	1
Carbon disulfide	ND		1.00		ug/L			09/21/16 03:21	1
Carbon tetrachloride	ND		1.00		ug/L			09/21/16 03:21	1
Chlorobenzene	ND		1.00		ug/L			09/21/16 03:21	1
Chlorodibromomethane	ND		1.00		ug/L			09/21/16 03:21	1
Chloroethane	ND		1.00		ug/L			09/21/16 03:21	1
Chloroform	ND		1.00		ug/L			09/21/16 03:21	1
Chloromethane	ND		1.00		ug/L			09/21/16 03:21	1
cis-1,2-Dichloroethene	ND		1.00		ug/L			09/21/16 03:21	1
cis-1,3-Dichloropropene	ND		1.00		ug/L			09/21/16 03:21	1
Cyclohexane	ND		5.00		ug/L			09/21/16 03:21	1
1,2-Dibromo-3-Chloropropane	ND		10.0		ug/L			09/21/16 03:21	1
1,2-Dibromoethane (EDB)	ND		1.00		ug/L			09/21/16 03:21	1
1,2-Dichlorobenzene	ND		1.00		ug/L			09/21/16 03:21	1
1,3-Dichlorobenzene	ND		1.00		ug/L			09/21/16 03:21	1
1,4-Dichlorobenzene	ND		1.00		ug/L			09/21/16 03:21	1
Dichlorodifluoromethane	ND		1.00		ug/L			09/21/16 03:21	1
1,1-Dichloroethane	ND		1.00		ug/L			09/21/16 03:21	1
1,2-Dichloroethane	ND		1.00		ug/L			09/21/16 03:21	1
1,1-Dichloroethene	ND		1.00		ug/L			09/21/16 03:21	1
1,2-Dichloropropane	ND		1.00		ug/L			09/21/16 03:21	1
Diisopropyl ether	ND		2.00		ug/L			09/21/16 03:21	1
Ethylbenzene	ND		1.00		ug/L			09/21/16 03:21	1
Ethyl tert-butyl ether	ND		1.00		ug/L			09/21/16 03:21	1
Freon 113	ND		1.00		ug/L			09/21/16 03:21	1
2-Hexanone	ND		10.0		ug/L			09/21/16 03:21	1
Isopropylbenzene	ND		1.00		ug/L			09/21/16 03:21	1
Methyl acetate	ND		10.0		ug/L			09/21/16 03:21	1
Methylcyclohexane	ND		5.00		ug/L			09/21/16 03:21	1
Methylene Chloride	ND		5.00		ug/L			09/21/16 03:21	1
4-Methyl-2-pentanone (MIBK)	ND		10.0		ug/L			09/21/16 03:21	1
Methyl tert-butyl ether	ND		1.00		ug/L			09/21/16 03:21	1
Naphthalene	ND		5.00		ug/L			09/21/16 03:21	1
Styrene	ND		1.00		ug/L			09/21/16 03:21	1
Tert-amyl methyl ether	ND		1.00		ug/L			09/21/16 03:21	1
tert-Butyl alcohol (TBA)	ND		10.0		ug/L			09/21/16 03:21	1
1,1,2,2-Tetrachloroethane	ND		1.00		ug/L			09/21/16 03:21	1
Tetrachloroethene	ND		1.00		ug/L			09/21/16 03:21	1
Toluene	ND		1.00		ug/L			09/21/16 03:21	1
trans-1,2-Dichloroethene	ND		1.00		ug/L			09/21/16 03:21	1
trans-1,3-Dichloropropene	ND		1.00		ug/L			09/21/16 03:21	1
1,2,3-Trichlorobenzene	ND		1.00		ug/L			09/21/16 03:21	1

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

Lab Sample ID: MB 490-371574/7
Matrix: Water
Analysis Batch: 371574

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		1.00		ug/L			09/21/16 03:21	1
1,1,1-Trichloroethane	ND		1.00		ug/L			09/21/16 03:21	1
1,1,2-Trichloroethane	ND		1.00		ug/L			09/21/16 03:21	1
Trichloroethene	ND		1.00		ug/L			09/21/16 03:21	1
Trichlorofluoromethane	ND		1.00		ug/L			09/21/16 03:21	1
Vinyl chloride	ND		1.00		ug/L			09/21/16 03:21	1
m,p-Xylene	ND		2.00		ug/L			09/21/16 03:21	1
o-Xylene	ND		1.00		ug/L			09/21/16 03:21	1
Xylenes, Total	ND		3.00		ug/L			09/21/16 03:21	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*		*09/21/16 03:21*	*1*
Dibromofluoromethane (Surr)	*96*		*70 - 130*		*09/21/16 03:21*	*1*
1,2-Dichloroethane-d4 (Surr)	*96*		*70 - 130*		*09/21/16 03:21*	*1*
Toluene-d8 (Surr)	*102*		*70 - 130*		*09/21/16 03:21*	*1*

Lab Sample ID: LCS 490-371574/3
Matrix: Water
Analysis Batch: 371574

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	100	102.3		ug/L		102	39 - 150
Benzene	20.0	19.84		ug/L		99	70 - 130
Bromochloromethane	20.0	19.94		ug/L		100	70 - 130
Bromodichloromethane	20.0	17.83		ug/L		89	70 - 130
Bromoform	20.0	15.84		ug/L		79	70 - 137
Bromomethane	20.0	17.86		ug/L		89	53 - 150
2-Butanone (MEK)	100	97.04		ug/L		97	55 - 143
Carbon disulfide	20.0	19.18		ug/L		96	64 - 135
Carbon tetrachloride	20.0	19.09		ug/L		95	70 - 147
Chlorobenzene	20.0	19.58		ug/L		98	70 - 130
Chlorodibromomethane	20.0	18.81		ug/L		94	70 - 133
Chloroethane	20.0	20.07		ug/L		100	60 - 138
Chloroform	20.0	18.81		ug/L		94	70 - 130
Chloromethane	20.0	17.59		ug/L		88	33 - 150
cis-1,2-Dichloroethene	20.0	19.66		ug/L		98	70 - 130
cis-1,3-Dichloropropene	20.0	19.37		ug/L		97	70 - 133
Cyclohexane	20.0	19.50		ug/L		97	70 - 134
1,2-Dibromo-3-Chloropropane	20.0	19.01		ug/L		95	45 - 138
1,2-Dibromoethane (EDB)	20.0	19.20		ug/L		96	70 - 130
1,2-Dichlorobenzene	20.0	19.30		ug/L		97	70 - 130
1,3-Dichlorobenzene	20.0	19.15		ug/L		96	70 - 130
1,4-Dichlorobenzene	20.0	19.30		ug/L		96	70 - 130
Dichlorodifluoromethane	20.0	20.06		ug/L		100	48 - 150
1,1-Dichloroethane	20.0	20.02		ug/L		100	70 - 130
1,2-Dichloroethane	20.0	19.31		ug/L		97	70 - 130
1,1-Dichloroethene	20.0	20.47		ug/L		102	70 - 132
1,2-Dichloropropane	20.0	19.78		ug/L		99	70 - 130

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

Lab Sample ID: LCS 490-371574/3
Matrix: Water
Analysis Batch: 371574

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Diisopropyl ether	20.0	19.71		ug/L		99	66 - 142
Ethylbenzene	20.0	20.25		ug/L		101	70 - 130
Ethyl tert-butyl ether	20.0	18.96		ug/L		95	63 - 135
Freon 113	20.0	20.04		ug/L		100	69 - 145
2-Hexanone	100	98.53		ug/L		99	54 - 142
Isopropylbenzene	20.0	20.00		ug/L		100	70 - 131
Methyl acetate	100	98.35		ug/L		98	56 - 136
Methylcyclohexane	20.0	19.66		ug/L		98	70 - 132
Methylene Chloride	20.0	19.01		ug/L		95	70 - 130
4-Methyl-2-pentanone (MIBK)	100	98.72		ug/L		99	60 - 137
Methyl tert-butyl ether	20.0	19.56		ug/L		98	70 - 130
Naphthalene	20.0	20.54		ug/L		103	54 - 150
Styrene	20.0	19.66		ug/L		98	70 - 130
Tert-amyl methyl ether	20.0	18.97		ug/L		95	63 - 135
tert-Butyl alcohol (TBA)	200	174.4		ug/L		87	12 - 150
1,1,2,2-Tetrachloroethane	20.0	18.32		ug/L		92	69 - 131
Tetrachloroethene	20.0	19.77		ug/L		99	70 - 130
Toluene	20.0	20.42		ug/L		102	70 - 130
trans-1,2-Dichloroethene	20.0	19.10		ug/L		96	70 - 130
trans-1,3-Dichloropropene	20.0	18.76		ug/L		94	63 - 142
1,2,3-Trichlorobenzene	20.0	20.67		ug/L		103	46 - 150
1,2,4-Trichlorobenzene	20.0	20.14		ug/L		101	58 - 147
1,1,1-Trichloroethane	20.0	18.76		ug/L		94	70 - 135
1,1,2-Trichloroethane	20.0	20.00		ug/L		100	70 - 130
Trichloroethene	20.0	19.50		ug/L		98	70 - 130
Trichlorofluoromethane	20.0	20.80		ug/L		104	59 - 150
Vinyl chloride	20.0	18.94		ug/L		95	57 - 137
m,p-Xylene	20.0	19.71		ug/L		99	70 - 130
o-Xylene	20.0	19.54		ug/L		98	70 - 130
Xylenes, Total	40.0	39.25		ug/L		98	70 - 132

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

Lab Sample ID: LCSD 490-371574/4
Matrix: Water
Analysis Batch: 371574

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
Acetone	100	103.8		ug/L		104	39 - 150	2	23
Benzene	20.0	19.64		ug/L		98	70 - 130	1	12
Bromochloromethane	20.0	20.30		ug/L		101	70 - 130	2	16
Bromodichloromethane	20.0	18.92		ug/L		95	70 - 130	6	14
Bromoform	20.0	16.15		ug/L		81	70 - 137	2	14
Bromomethane	20.0	17.34		ug/L		87	53 - 150	3	19

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

Lab Sample ID: LCSD 490-371574/4
Matrix: Water
Analysis Batch: 371574

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
2-Butanone (MEK)	100	98.09		ug/L		98	55 - 143	1	19
Carbon disulfide	20.0	19.03		ug/L		95	64 - 135	1	16
Carbon tetrachloride	20.0	19.09		ug/L		95	70 - 147	0	16
Chlorobenzene	20.0	19.78		ug/L		99	70 - 130	1	12
Chlorodibromomethane	20.0	18.88		ug/L		94	70 - 133	0	13
Chloroethane	20.0	19.77		ug/L		99	60 - 138	2	15
Chloroform	20.0	19.25		ug/L		96	70 - 130	2	14
Chloromethane	20.0	16.04		ug/L		80	33 - 150	9	20
cis-1,2-Dichloroethene	20.0	19.58		ug/L		98	70 - 130	0	15
cis-1,3-Dichloropropene	20.0	18.96		ug/L		95	70 - 133	2	15
Cyclohexane	20.0	19.66		ug/L		98	70 - 134	1	16
1,2-Dibromo-3-Chloropropane	20.0	19.53		ug/L		98	45 - 138	3	19
1,2-Dibromoethane (EDB)	20.0	19.12		ug/L		96	70 - 130	0	13
1,2-Dichlorobenzene	20.0	19.90		ug/L		100	70 - 130	3	12
1,3-Dichlorobenzene	20.0	19.47		ug/L		97	70 - 130	2	13
1,4-Dichlorobenzene	20.0	19.86		ug/L		99	70 - 130	3	12
Dichlorodifluoromethane	20.0	19.77		ug/L		99	48 - 150	1	16
1,1-Dichloroethane	20.0	19.71		ug/L		99	70 - 130	2	17
1,2-Dichloroethane	20.0	19.52		ug/L		98	70 - 130	1	13
1,1-Dichloroethene	20.0	20.86		ug/L		104	70 - 132	2	20
1,2-Dichloropropane	20.0	19.17		ug/L		96	70 - 130	3	15
Diisopropyl ether	20.0	19.83		ug/L		99	66 - 142	1	14
Ethylbenzene	20.0	20.09		ug/L		100	70 - 130	1	12
Ethyl tert-butyl ether	20.0	19.30		ug/L		96	63 - 135	2	15
Freon 113	20.0	20.21		ug/L		101	69 - 145	1	16
2-Hexanone	100	98.53		ug/L		99	54 - 142	0	17
Isopropylbenzene	20.0	19.82		ug/L		99	70 - 131	1	13
Methyl acetate	100	99.65		ug/L		100	56 - 136	1	18
Methylcyclohexane	20.0	19.78		ug/L		99	70 - 132	1	17
Methylene Chloride	20.0	19.26		ug/L		96	70 - 130	1	15
4-Methyl-2-pentanone (MIBK)	100	99.24		ug/L		99	60 - 137	1	21
Methyl tert-butyl ether	20.0	19.69		ug/L		98	70 - 130	1	16
Naphthalene	20.0	20.60		ug/L		103	54 - 150	0	15
Styrene	20.0	19.70		ug/L		99	70 - 130	0	12
Tert-amyl methyl ether	20.0	19.02		ug/L		95	63 - 135	0	15
tert-Butyl alcohol (TBA)	200	176.7		ug/L		88	12 - 150	1	46
1,1,2,2-Tetrachloroethane	20.0	19.14		ug/L		96	69 - 131	4	15
Tetrachloroethene	20.0	19.58		ug/L		98	70 - 130	1	17
Toluene	20.0	20.13		ug/L		101	70 - 130	1	13
trans-1,2-Dichloroethene	20.0	19.12		ug/L		96	70 - 130	0	15
trans-1,3-Dichloropropene	20.0	18.72		ug/L		94	63 - 142	0	13
1,2,3-Trichlorobenzene	20.0	20.66		ug/L		103	46 - 150	0	16
1,2,4-Trichlorobenzene	20.0	20.65		ug/L		103	58 - 147	2	15
1,1,1-Trichloroethane	20.0	18.94		ug/L		95	70 - 135	1	15
1,1,2-Trichloroethane	20.0	20.06		ug/L		100	70 - 130	0	13
Trichloroethene	20.0	19.93		ug/L		100	70 - 130	2	14
Trichlorofluoromethane	20.0	20.43		ug/L		102	59 - 150	2	22
Vinyl chloride	20.0	18.80		ug/L		94	57 - 137	1	15

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

Lab Sample ID: LCSD 490-371574/4
Matrix: Water
Analysis Batch: 371574

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
m,p-Xylene			20.0	19.61		ug/L		98	70 - 130	1	12
o-Xylene			20.0	19.51		ug/L		98	70 - 130	0	11
Xylenes, Total			40.0	39.12		ug/L		98	70 - 132	0	11

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*
Dibromofluoromethane (Surr)	*99*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*97*		*70 - 130*
Toluene-d8 (Surr)	*101*		*70 - 130*

Lab Sample ID: 490-111969-3 MS
Matrix: Water
Analysis Batch: 371574

Client Sample ID: GAC-1 EFF
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Acetone	ND		100	111.7		ug/L		112	39 - 150		
Benzene	ND		20.0	23.05		ug/L		115	55 - 147		
Bromochloromethane	ND		20.0	22.91		ug/L		115	59 - 132		
Bromodichloromethane	ND		20.0	21.16		ug/L		106	70 - 140		
Bromoform	ND		20.0	17.18		ug/L		86	53 - 150		
Bromomethane	ND		20.0	19.72		ug/L		99	30 - 150		
2-Butanone (MEK)	ND		100	106.5		ug/L		107	50 - 143		
Carbon disulfide	ND		20.0	22.74		ug/L		114	35 - 150		
Carbon tetrachloride	ND		20.0	22.60		ug/L		113	56 - 150		
Chlorobenzene	ND		20.0	22.27		ug/L		111	70 - 130		
Chlorodibromomethane	ND		20.0	20.83		ug/L		104	66 - 140		
Chloroethane	ND		20.0	24.57		ug/L		123	58 - 141		
Chloroform	ND		20.0	22.39		ug/L		112	66 - 138		
Chloromethane	ND		20.0	22.62		ug/L		113	10 - 150		
cis-1,2-Dichloroethene	ND		20.0	22.41		ug/L		112	68 - 131		
cis-1,3-Dichloropropene	ND		20.0	21.22		ug/L		106	70 - 133		
Cyclohexane	ND		20.0	23.97		ug/L		120	48 - 150		
1,2-Dibromo-3-Chloropropane	ND		20.0	19.41		ug/L		97	38 - 138		
1,2-Dibromoethane (EDB)	ND		20.0	20.90		ug/L		105	65 - 137		
1,2-Dichlorobenzene	ND		20.0	21.35		ug/L		107	70 - 130		
1,3-Dichlorobenzene	ND		20.0	21.11		ug/L		106	68 - 131		
1,4-Dichlorobenzene	ND		20.0	21.36		ug/L		107	70 - 130		
Dichlorodifluoromethane	ND		20.0	24.08		ug/L		120	10 - 150		
1,1-Dichloroethane	ND		20.0	22.93		ug/L		115	61 - 139		
1,2-Dichloroethane	ND		20.0	22.69		ug/L		113	64 - 136		
1,1-Dichloroethene	ND		20.0	25.14		ug/L		126	54 - 150		
1,2-Dichloropropane	ND		20.0	22.79		ug/L		114	67 - 130		
Diisopropyl ether	ND		20.0	22.47		ug/L		112	56 - 142		
Ethylbenzene	ND		20.0	23.33		ug/L		117	65 - 139		
Ethyl tert-butyl ether	ND		20.0	21.48		ug/L		107	53 - 138		
Freon 113	ND		20.0	24.46		ug/L		122	63 - 150		
2-Hexanone	ND		100	102.1		ug/L		102	44 - 150		
Isopropylbenzene	ND		20.0	22.98		ug/L		115	70 - 137		

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

Lab Sample ID: 490-111969-3 MS
Matrix: Water
Analysis Batch: 371574

Client Sample ID: GAC-1 EFF
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Methyl acetate	ND		100	95.88		ug/L		96	42 - 136
Methylcyclohexane	ND		20.0	23.35		ug/L		117	59 - 150
Methylene Chloride	ND		20.0	22.27		ug/L		111	64 - 130
4-Methyl-2-pentanone (MIBK)	ND		100	104.5		ug/L		105	50 - 140
Methyl tert-butyl ether	ND		20.0	21.77		ug/L		109	55 - 141
Naphthalene	ND		20.0	21.36		ug/L		107	32 - 150
Styrene	ND		20.0	21.96		ug/L		110	70 - 130
Tert-amyl methyl ether	ND		20.0	21.19		ug/L		106	47 - 148
tert-Butyl alcohol (TBA)	ND		200	192.7		ug/L		96	10 - 150
1,1,2,2-Tetrachloroethane	ND		20.0	20.17		ug/L		101	56 - 145
Tetrachloroethene	ND		20.0	22.93		ug/L		115	57 - 138
Toluene	ND		20.0	23.03		ug/L		115	64 - 136
trans-1,2-Dichloroethene	ND		20.0	23.01		ug/L		115	59 - 143
trans-1,3-Dichloropropene	ND		20.0	20.31		ug/L		102	63 - 142
1,2,3-Trichlorobenzene	ND		20.0	21.16		ug/L		106	36 - 150
1,2,4-Trichlorobenzene	ND		20.0	21.55		ug/L		108	47 - 147
1,1,1-Trichloroethane	ND		20.0	22.42		ug/L		112	68 - 144
1,1,2-Trichloroethane	ND		20.0	22.26		ug/L		111	70 - 130
Trichloroethene	ND		20.0	22.67		ug/L		113	63 - 135
Trichlorofluoromethane	ND		20.0	25.98		ug/L		130	44 - 150
Vinyl chloride	ND		20.0	23.86		ug/L		119	57 - 150
m,p-Xylene	ND		20.0	22.73		ug/L		114	70 - 130
o-Xylene	ND		20.0	22.32		ug/L		112	70 - 131
Xylenes, Total	ND		40.0	45.05		ug/L		113	69 - 132

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*
Dibromofluoromethane (Surr)	*99*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 130*
Toluene-d8 (Surr)	*102*		*70 - 130*

Lab Sample ID: 490-111969-3 MSD
Matrix: Water
Analysis Batch: 371574

Client Sample ID: GAC-1 EFF
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	ND		100	85.10		ug/L		85	39 - 150	27	28
Benzene	ND		20.0	20.78		ug/L		104	55 - 147	10	22
Bromochloromethane	ND		20.0	20.87		ug/L		104	59 - 132	9	21
Bromodichloromethane	ND		20.0	19.36		ug/L		97	70 - 140	9	196
Bromoform	ND		20.0	15.32		ug/L		77	53 - 150	11	20
Bromomethane	ND		20.0	19.06		ug/L		95	30 - 150	3	44
2-Butanone (MEK)	ND		100	92.93		ug/L		93	50 - 143	14	28
Carbon disulfide	ND		20.0	20.67		ug/L		103	35 - 150	10	34
Carbon tetrachloride	ND		20.0	20.75		ug/L		104	56 - 150	9	18
Chlorobenzene	ND		20.0	20.47		ug/L		102	70 - 130	8	15
Chlorodibromomethane	ND		20.0	18.49		ug/L		92	66 - 140	12	19
Chloroethane	ND		20.0	22.22		ug/L		111	58 - 141	10	31

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

Lab Sample ID: 490-111969-3 MSD
Matrix: Water
Analysis Batch: 371574

Client Sample ID: GAC-1 EFF
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloroform	ND		20.0	20.54		ug/L		103	66 - 138	9	21
Chloromethane	ND		20.0	20.63		ug/L		103	10 - 150	9	43
cis-1,2-Dichloroethene	ND		20.0	20.69		ug/L		103	68 - 131	8	21
cis-1,3-Dichloropropene	ND		20.0	18.91		ug/L		95	70 - 133	12	19
Cyclohexane	ND		20.0	21.95		ug/L		110	48 - 150	9	22
1,2-Dibromo-3-Chloropropane	ND		20.0	18.03		ug/L		90	38 - 138	7	26
1,2-Dibromoethane (EDB)	ND		20.0	19.05		ug/L		95	65 - 137	9	21
1,2-Dichlorobenzene	ND		20.0	19.34		ug/L		97	70 - 130	10	15
1,3-Dichlorobenzene	ND		20.0	19.40		ug/L		97	68 - 131	8	14
1,4-Dichlorobenzene	ND		20.0	19.74		ug/L		99	70 - 130	8	14
Dichlorodifluoromethane	ND		20.0	22.16		ug/L		111	10 - 150	8	50
1,1-Dichloroethane	ND		20.0	20.86		ug/L		104	61 - 139	9	23
1,2-Dichloroethane	ND		20.0	19.35		ug/L		97	64 - 136	16	22
1,1-Dichloroethene	ND		20.0	22.62		ug/L		113	54 - 150	11	24
1,2-Dichloropropane	ND		20.0	20.37		ug/L		102	67 - 130	11	19
Diisopropyl ether	ND		20.0	20.25		ug/L		101	56 - 142	10	22
Ethylbenzene	ND		20.0	21.11		ug/L		106	65 - 139	10	18
Ethyl tert-butyl ether	ND		20.0	19.43		ug/L		97	53 - 138	10	22
Freon 113	ND		20.0	22.23		ug/L		111	63 - 150	10	22
2-Hexanone	ND		100	90.26		ug/L		90	44 - 150	12	21
Isopropylbenzene	ND		20.0	20.72		ug/L		104	70 - 137	10	17
Methyl acetate	ND		100	85.33		ug/L		85	42 - 136	12	26
Methylcyclohexane	ND		20.0	21.27		ug/L		106	59 - 150	9	20
Methylene Chloride	ND		20.0	20.07		ug/L		100	64 - 130	10	22
4-Methyl-2-pentanone (MIBK)	ND		100	93.27		ug/L		93	50 - 140	11	24
Methyl tert-butyl ether	ND		20.0	19.57		ug/L		98	55 - 141	11	24
Naphthalene	ND		20.0	19.45		ug/L		97	32 - 150	9	40
Styrene	ND		20.0	20.32		ug/L		102	70 - 130	8	16
Tert-amyl methyl ether	ND		20.0	19.05		ug/L		95	47 - 148	11	23
tert-Butyl alcohol (TBA)	ND		200	166.9		ug/L		83	10 - 150	14	47
1,1,2,2-Tetrachloroethane	ND		20.0	18.36		ug/L		92	56 - 145	9	19
Tetrachloroethene	ND		20.0	21.08		ug/L		105	57 - 138	8	17
Toluene	ND		20.0	21.43		ug/L		107	64 - 136	7	18
trans-1,2-Dichloroethene	ND		20.0	21.07		ug/L		105	59 - 143	9	25
trans-1,3-Dichloropropene	ND		20.0	18.33		ug/L		92	63 - 142	10	18
1,2,3-Trichlorobenzene	ND		20.0	19.65		ug/L		98	36 - 150	7	43
1,2,4-Trichlorobenzene	ND		20.0	19.57		ug/L		98	47 - 147	10	24
1,1,1-Trichloroethane	ND		20.0	20.72		ug/L		104	68 - 144	8	17
1,1,2-Trichloroethane	ND		20.0	19.77		ug/L		99	70 - 130	12	18
Trichloroethene	ND		20.0	20.67		ug/L		103	63 - 135	9	17
Trichlorofluoromethane	ND		20.0	24.02		ug/L		120	44 - 150	8	32
Vinyl chloride	ND		20.0	21.82		ug/L		109	57 - 150	9	37
m,p-Xylene	ND		20.0	20.71		ug/L		104	70 - 130	9	17
o-Xylene	ND		20.0	20.19		ug/L		101	70 - 131	10	17
Xylenes, Total	ND		40.0	40.90		ug/L		102	69 - 132	10	17

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*

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

Lab Sample ID: 490-111969-3 MSD
Matrix: Water
Analysis Batch: 371574

Client Sample ID: GAC-1 EFF
Prep Type: Total/NA

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*99*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*97*		*70 - 130*
Toluene-d8 (Surr)	*101*		*70 - 130*

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

Lab Sample ID: MB 490-371341/8
Matrix: Water
Analysis Batch: 371341

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			09/20/16 16:55	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*87*		*50 - 150*		*09/20/16 16:55*	*1*

Lab Sample ID: LCS 490-371341/22
Matrix: Water
Analysis Batch: 371341

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics [C6 - C10]			1000	944.4		ug/L		94	66 - 140		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
a,a,a-Trifluorotoluene	*128*		*50 - 150*

Lab Sample ID: LCSD 490-371341/23
Matrix: Water
Analysis Batch: 371341

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
Gasoline Range Organics [C6 - C10]			1000	945.8		ug/L		95	66 - 140	0	42

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
a,a,a-Trifluorotoluene	*126*		*50 - 150*

Lab Sample ID: MB 490-371346/19
Matrix: Water
Analysis Batch: 371346

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			09/20/16 19:16	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*90*		*50 - 150*		*09/20/16 19:16*	*1*

QC Sample Results

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

TestAmerica Job ID: 490-111969-1
SDG: 125 Hanover Pike, Hampstead, MD

Lab Sample ID: LCS 490-371346/17
Matrix: Water
Analysis Batch: 371346

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics [C6 - C10]			1000	1106		ug/L		111	66 - 140		

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

Lab Sample ID: LCSD 490-371346/18
Matrix: Water
Analysis Batch: 371346

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
Gasoline Range Organics [C6 - C10]			1000	1088		ug/L		109	66 - 140	2	42

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
a,a,a-Trifluorotoluene	*89*		*50 - 150*

Lab Sample ID: 490-111969-2 MS
Matrix: Water
Analysis Batch: 371346

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		
Gasoline Range Organics [C6 - C10]	ND		1000	948.6		ug/L		95	33 - 175		

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

Lab Sample ID: 490-111969-2 MSD
Matrix: Water
Analysis Batch: 371346

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
Gasoline Range Organics [C6 - C10]	ND		1000	895.1		ug/L		90	33 - 175	6	42

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

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 490-371342/8
Matrix: Water
Analysis Batch: 371342

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			09/20/16 16:55	1
Ethylbenzene	ND		1.00		ug/L			09/20/16 16:55	1
Methyl tert-butyl ether	ND		1.00		ug/L			09/20/16 16:55	1
Toluene	ND		1.00		ug/L			09/20/16 16:55	1

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: MB 490-371342/8
Matrix: Water
Analysis Batch: 371342

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	ND		3.00		ug/L			09/20/16 16:55	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*91*		*50 - 150*		*09/20/16 16:55*	*1*

Lab Sample ID: LCS 490-371342/4
Matrix: Water
Analysis Batch: 371342

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	100	103.6		ug/L		104	69 - 129
Ethylbenzene	100	103.7		ug/L		104	70 - 130
Methyl tert-butyl ether	100	87.47		ug/L		87	57 - 138
Toluene	100	103.0		ug/L		103	66 - 127
Xylenes, Total	300	320.9		ug/L		107	69 - 123

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
a,a,a-Trifluorotoluene	*104*		*50 - 150*

Lab Sample ID: LCSD 490-371342/24
Matrix: Water
Analysis Batch: 371342

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	100	103.4		ug/L		103	69 - 129	0	33
Ethylbenzene	100	101.8		ug/L		102	70 - 130	2	35
Methyl tert-butyl ether	100	80.92		ug/L		81	57 - 138	8	40
Toluene	100	101.6		ug/L		102	66 - 127	1	34
Xylenes, Total	300	314.0		ug/L		105	69 - 123	2	37

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
a,a,a-Trifluorotoluene	*105*		*50 - 150*

Lab Sample ID: MB 490-372291/14
Matrix: Water
Analysis Batch: 372291

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			09/22/16 23:50	1
Ethylbenzene	ND		1.00		ug/L			09/22/16 23:50	1
Methyl tert-butyl ether	ND		1.00		ug/L			09/22/16 23:50	1
Toluene	ND		1.00		ug/L			09/22/16 23:50	1
Xylenes, Total	ND		3.00		ug/L			09/22/16 23:50	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*99*		*50 - 150*		*09/22/16 23:50*	*1*

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCS 490-372291/23
Matrix: Water
Analysis Batch: 372291

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	100	97.49		ug/L		97	69 - 129
Ethylbenzene	100	97.82		ug/L		98	70 - 130
Methyl tert-butyl ether	100	94.10		ug/L		94	57 - 138
Toluene	100	97.37		ug/L		97	66 - 127
Xylenes, Total	200	194.8		ug/L		97	69 - 123

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
a,a,a-Trifluorotoluene	*95*		*50 - 150*

Lab Sample ID: LCSD 490-372291/24
Matrix: Water
Analysis Batch: 372291

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	100	98.21		ug/L		98	69 - 129	1	33
Ethylbenzene	100	98.26		ug/L		98	70 - 130	0	35
Methyl tert-butyl ether	100	96.85		ug/L		97	57 - 138	3	40
Toluene	100	97.87		ug/L		98	66 - 127	1	34
Xylenes, Total	200	195.8		ug/L		98	69 - 123	1	37

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

QC Association Summary

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

TestAmerica Job ID: 490-111969-1
SDG: 125 Hanover Pike, Hampstead, MD

GC/MS VOA

Analysis Batch: 371574

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-111969-1	A/S INF	Total/NA	Water	8260B	
490-111969-2	A/S EFF	Total/NA	Water	8260B	
490-111969-3	GAC-1 EFF	Total/NA	Water	8260B	
490-111969-5	MW-1	Total/NA	Water	8260B	
490-111969-6	MW-2	Total/NA	Water	8260B	
490-111969-7	MW-3	Total/NA	Water	8260B	
490-111969-8	MW-4	Total/NA	Water	8260B	
490-111969-9	MW-5	Total/NA	Water	8260B	
490-111969-10	MW-6	Total/NA	Water	8260B	
490-111969-11	MW-7	Total/NA	Water	8260B	
490-111969-12	MW-8	Total/NA	Water	8260B	
490-111969-13	MW-9	Total/NA	Water	8260B	
490-111969-14	MW-10	Total/NA	Water	8260B	
MB 490-371574/7	Method Blank	Total/NA	Water	8260B	
LCS 490-371574/3	Lab Control Sample	Total/NA	Water	8260B	
LCSD 490-371574/4	Lab Control Sample Dup	Total/NA	Water	8260B	
490-111969-3 MS	GAC-1 EFF	Total/NA	Water	8260B	
490-111969-3 MSD	GAC-1 EFF	Total/NA	Water	8260B	

GC VOA

Analysis Batch: 371341

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-111969-4	GAC-2 FINAL	Total/NA	Water	8015C	
MB 490-371341/8	Method Blank	Total/NA	Water	8015C	
LCS 490-371341/22	Lab Control Sample	Total/NA	Water	8015C	
LCSD 490-371341/23	Lab Control Sample Dup	Total/NA	Water	8015C	

Analysis Batch: 371342

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-111969-4	GAC-2 FINAL	Total/NA	Water	8021B	
MB 490-371342/8	Method Blank	Total/NA	Water	8021B	
LCS 490-371342/4	Lab Control Sample	Total/NA	Water	8021B	
LCSD 490-371342/24	Lab Control Sample Dup	Total/NA	Water	8021B	

Analysis Batch: 371346

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-111969-1	A/S INF	Total/NA	Water	8015C	
490-111969-2	A/S EFF	Total/NA	Water	8015C	
490-111969-3	GAC-1 EFF	Total/NA	Water	8015C	
490-111969-5	MW-1	Total/NA	Water	8015C	
490-111969-6	MW-2	Total/NA	Water	8015C	
490-111969-7	MW-3	Total/NA	Water	8015C	
490-111969-8	MW-4	Total/NA	Water	8015C	
490-111969-9	MW-5	Total/NA	Water	8015C	
490-111969-10	MW-6	Total/NA	Water	8015C	
490-111969-11	MW-7	Total/NA	Water	8015C	
490-111969-12	MW-8	Total/NA	Water	8015C	
490-111969-13	MW-9	Total/NA	Water	8015C	
490-111969-14	MW-10	Total/NA	Water	8015C	

GC VOA (Continued)

Analysis Batch: 371346 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 490-371346/19	Method Blank	Total/NA	Water	8015C	
LCS 490-371346/17	Lab Control Sample	Total/NA	Water	8015C	
LCSD 490-371346/18	Lab Control Sample Dup	Total/NA	Water	8015C	
490-111969-2 MS	A/S EFF	Total/NA	Water	8015C	
490-111969-2 MSD	A/S EFF	Total/NA	Water	8015C	

Analysis Batch: 372291

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-111969-4	GAC-2 FINAL	Total/NA	Water	8021B	
MB 490-372291/14	Method Blank	Total/NA	Water	8021B	
LCS 490-372291/23	Lab Control Sample	Total/NA	Water	8021B	
LCSD 490-372291/24	Lab Control Sample Dup	Total/NA	Water	8021B	

Lab Chronicle

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

TestAmerica Job ID: 490-111969-1
SDG: 125 Hanover Pike, Hampstead, MD

Client Sample ID: A/S INF
Date Collected: 09/16/16 13:20
Date Received: 09/17/16 09:50

Lab Sample ID: 490-111969-1
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	371574	09/21/16 10:18	NC	TAL NSH
Total/NA	Analysis	8015C		1	5 mL	5 mL	371346	09/20/16 19:49	A1B	TAL NSH

Client Sample ID: A/S EFF
Date Collected: 09/16/16 13:10
Date Received: 09/17/16 09:50

Lab Sample ID: 490-111969-2
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	371574	09/21/16 04:50	NC	TAL NSH
Total/NA	Analysis	8015C		1	5 mL	5 mL	371346	09/20/16 20:22	A1B	TAL NSH

Client Sample ID: GAC-1 EFF
Date Collected: 09/16/16 13:00
Date Received: 09/17/16 09:50

Lab Sample ID: 490-111969-3
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	371574	09/21/16 04:21	NC	TAL NSH
Total/NA	Analysis	8015C		1	5 mL	5 mL	371346	09/20/16 22:31	A1B	TAL NSH

Client Sample ID: GAC-2 FINAL
Date Collected: 09/16/16 12:50
Date Received: 09/17/16 09:50

Lab Sample ID: 490-111969-4
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	8015C		1	5 mL	5 mL	371341	09/20/16 21:03	GWM	TAL NSH
Total/NA	Analysis	8021B		1	5 mL	5 mL	371342	09/20/16 21:03	GWM	TAL NSH
Total/NA	Analysis	8021B		1	5 mL	5 mL	372291	09/23/16 03:59	GWM	TAL NSH

Client Sample ID: MW-1
Date Collected: 09/16/16 15:15
Date Received: 09/17/16 09:50

Lab Sample ID: 490-111969-5
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	371574	09/21/16 05:20	NC	TAL NSH
Total/NA	Analysis	8015C		1	5 mL	5 mL	371346	09/20/16 23:03	A1B	TAL NSH

Lab Chronicle

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

TestAmerica Job ID: 490-111969-1
SDG: 125 Hanover Pike, Hampstead, MD

Client Sample ID: MW-2
Lab Sample ID: 490-111969-6
Date Collected: 09/16/16 16:00
Matrix: Water
Date Received: 09/17/16 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	10 mL	10 mL	371574	09/21/16 05:50	NC	TAL NSH
Total/NA	Analysis	8015C		1	5 mL	5 mL	371346	09/20/16 23:35	A1B	TAL NSH

Client Sample ID: MW-3
Lab Sample ID: 490-111969-7
Date Collected: 09/16/16 15:45
Matrix: Water
Date Received: 09/17/16 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	10 mL	10 mL	371574	09/21/16 06:20	NC	TAL NSH
Total/NA	Analysis	8015C		1	5 mL	5 mL	371346	09/21/16 00:07	A1B	TAL NSH

Client Sample ID: MW-4
Lab Sample ID: 490-111969-8
Date Collected: 09/16/16 15:30
Matrix: Water
Date Received: 09/17/16 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	10 mL	10 mL	371574	09/21/16 06:50	NC	TAL NSH
Total/NA	Analysis	8015C		1	5 mL	5 mL	371346	09/21/16 00:39	A1B	TAL NSH

Client Sample ID: MW-5
Lab Sample ID: 490-111969-9
Date Collected: 09/16/16 15:00
Matrix: Water
Date Received: 09/17/16 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	10 mL	10 mL	371574	09/21/16 07:49	NC	TAL NSH
Total/NA	Analysis	8015C		1	5 mL	5 mL	371346	09/21/16 01:10	A1B	TAL NSH

Client Sample ID: MW-6
Lab Sample ID: 490-111969-10
Date Collected: 09/16/16 16:40
Matrix: Water
Date Received: 09/17/16 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	10 mL	10 mL	371574	09/21/16 07:19	NC	TAL NSH
Total/NA	Analysis	8015C		1	5 mL	5 mL	371346	09/21/16 01:42	A1B	TAL NSH

Client Sample ID: MW-7
Lab Sample ID: 490-111969-11
Date Collected: 09/16/16 17:00
Matrix: Water
Date Received: 09/17/16 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	10 mL	10 mL	371574	09/21/16 08:19	NC	TAL NSH

Lab Chronicle

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

TestAmerica Job ID: 490-111969-1
SDG: 125 Hanover Pike, Hampstead, MD

Client Sample ID: MW-7
Date Collected: 09/16/16 17:00
Date Received: 09/17/16 09:50

Lab Sample ID: 490-111969-11
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	8015C		1	5 mL	5 mL	371346	09/21/16 02:14	A1B	TAL NSH

Client Sample ID: MW-8
Date Collected: 09/16/16 13:30
Date Received: 09/17/16 09:50

Lab Sample ID: 490-111969-12
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	371574	09/21/16 09:19	NC	TAL NSH
Total/NA	Analysis	8015C		1	5 mL	5 mL	371346	09/21/16 02:45	A1B	TAL NSH

Client Sample ID: MW-9
Date Collected: 09/16/16 13:40
Date Received: 09/17/16 09:50

Lab Sample ID: 490-111969-13
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	371574	09/21/16 09:48	NC	TAL NSH
Total/NA	Analysis	8015C		1	5 mL	5 mL	371346	09/21/16 03:17	A1B	TAL NSH

Client Sample ID: MW-10
Date Collected: 09/16/16 13:50
Date Received: 09/17/16 09:50

Lab Sample ID: 490-111969-14
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	371574	09/21/16 08:49	NC	TAL NSH
Total/NA	Analysis	8015C		1	5 mL	5 mL	371346	09/21/16 03:49	A1B	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: 490-111969-1
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
8021B	Volatile Organic Compounds (GC)	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

Certification Summary

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

TestAmerica Job ID: 490-111969-1
SDG: 125 Hanover Pike, Hampstead, MD

Laboratory: TestAmerica Nashville

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

Authority	Program	EPA Region	Certification ID	Expiration Date
A2LA	A2LA		NA: NELAP & A2LA	12-31-17
A2LA	ISO/IEC 17025		0453.07	12-31-17
Alaska (UST)	State Program	10	UST-087	07-24-17
Arizona	State Program	9	AZ0473	05-05-17
Arkansas DEQ	State Program	6	88-0737	04-25-17
California	State Program	9	2938	10-31-16
Connecticut	State Program	1	PH-0220	12-31-17
Florida	NELAP	4	E87358	06-30-17
Georgia	State Program	4	N/A	12-31-17
Illinois	NELAP	5	200010	12-09-16 *
Iowa	State Program	7	131	04-01-18
Kansas	NELAP	7	E-10229	10-31-16 *
Kentucky (UST)	State Program	4	19	06-30-17
Kentucky (WW)	State Program	4	90038	12-31-16
Louisiana	NELAP	6	30613	06-30-17
Maine	State Program	1	TN00032	11-03-17
Maryland	State Program	3	316	03-31-17
Massachusetts	State Program	1	M-TN032	06-30-17
Minnesota	NELAP	5	047-999-345	12-31-16 *
Mississippi	State Program	4	N/A	06-30-16 *
Montana (UST)	State Program	8	NA	02-24-20
Nevada	State Program	9	TN00032	07-31-17
New Hampshire	NELAP	1	2963	10-09-16 *
New Jersey	NELAP	2	TN965	06-30-17
New York	NELAP	2	11342	03-31-17
North Carolina (WW/SW)	State Program	4	387	12-31-16
North Dakota	State Program	8	R-146	06-30-17
Ohio VAP	State Program	5	CL0033	07-10-17
Oklahoma	State Program	6	9412	08-31-17
Oregon	NELAP	10	TN200001	04-27-17
Pennsylvania	NELAP	3	68-00585	06-30-17
Rhode Island	State Program	1	LAO00268	12-30-16
South Carolina	State Program	4	84009 (001)	02-18-17
South Carolina (Do Not Use - DW)	State Program	4	84009 (002)	12-16-17
Tennessee	State Program	4	2008	02-23-17
Texas	NELAP	6	T104704077	08-31-17
USDA	Federal		P330-13-00306	10-30-16
Utah	NELAP	8	TN00032	07-31-17
Virginia	NELAP	3	460152	06-14-17
Washington	State Program	10	C789	07-19-17
West Virginia DEP	State Program	3	219	02-28-17
Wisconsin	State Program	5	998020430	08-31-17
Wyoming (UST)	A2LA	8	453.07	12-31-17

* Certification renewal pending - certification considered valid.

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
Nashville, TN

COOLER RECEIPT FORM

490-111969 Chain of Custody

Cooler Received/Opened On 9/17/2016 @ 0950

Time Samples Removed From Cooler_____ Time Samples Placed In Storage_____ (2 Hour Window)

1. Tracking # 1448 (last 4 digits, FedEx) Courier: _FedEx_

   IR Gun ID 14740456 pH Strip Lot HC58117 Chlorine Strip Lot 71130

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: (2) 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) _____

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 DA 9-17-16

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

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) DA

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) DA

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) DA

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

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

* One vial was BIS for sample GAC-1 EFF.
* one vial was BIS for sample MW-9.

BIS = Broken in shipment

Loc: 490
111969

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

9/23/2016

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

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: John Canzeri	Site Contact: Mike Parsons	11/10/2015	COC No:
AECOM	Tel/Fax: 301-289-3805	Lab Contact: Salomon, Sherry	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			Job / SDG No.:
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 + Oxy 8260	BTEX/MTBE 8021	Full VOCs 8260+Oxy	Full VOCs 524.2+Oxy	TPH-GRO 8015	Sample Specific Notes:
1	A/S INF	9/16/16	1320	Grab	W	6	N	N	*				*	
2	A/S EFF		1310	Grab	W	6	N	N	*				*	
3	GAC-1 EFF		1300	Grab	W	6	N	N	*				*	
4	GAC-2 FINAL		1250	Grab	W	6	N	N		*			*	
5	MW-1		1515	Grab	W	6	N	N			*		*	
6	MW-2		1600	Grab	W	6	N	N			*		*	
7	MW-3		1545	Grab	W	6	N	N			*		*	
8	MW-4		1530	Grab	W	6	N	N			*		*	
9	MW-5		1500	Grab	W	6	N	N			*		*	
10	MW-6		1640	Grab	W	6	N	N			*		*	
11	MW-7		1700	Grab	W	6	N	N			*		*	
12	MW-8		1330	Grab	W	6	N	N			*		*	
13	MW-9		1340	Grab	W	6	N	N			*		*	
14	MW-10		1350	Grab	W	6	N	N			*		*	
	~~7-11 Potable (P.O.U.)~~			Grab	W	3	N	N				*		
	Preservation Used: 1= Ice, 2= HCl, 3= H2SO4, 4=HNO3, 5=NaOH, 6= Other								2	2	2	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

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

Relinquished by:	Company: AECOM	Date/Time: 9/16/16 1730	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received by:	Company: TAN	Date/Time: 9-17-16 0950
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

Temp. 3.2

Form No. CA-C-WI-002, Rev. 4.6, dated 09/02/2015

Login Sample Receipt Checklist

Client: AECOM

Job Number: 490-111969-1
SDG Number: 125 Hanover Pike, Hampstead, MD

Login Number: 111969
List Number: 1
Creator: Armstrong, Daniel

List Source: TestAmerica Nashville

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	3.2C
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	False	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	