Groundwater & Environmental Services, Inc.

EASTERN NEW YORK OFFICE

January 16, 2013

Michael D. MacCabe, P.E.
Senior Environmental Engineer
Division of Environmental Remediation
NYS Department of Environmental Conservation
625 Broadway, 12th Floor
Albany, NY 12233-7016

Re: Site Status Update Report
Monitoring Period: October through December 2012
Spill# 89-04339
Former Mobil #17-EMW
304 Columbia Street
Brooklyn, New York

Dear Mr. MacCabe:

Please find the enclosed *Site Status Update Report* for work performed in October through December 2012 for 304 Columbia Street in Brooklyn, New York (NYS Spill# 89-04339). During this monitoring period, the following work was performed:

Quarterly Groundwater Monitoring

The 4th quarter groundwater monitoring event was conducted on December 18, 2012. Fifteen monitoring wells were gauged (MW-1 through MW-3, MW-5, MW-7A, MW-8A, and MW-10 through MW-18) and fourteen wells (MW-1, MW-3, MW-5, MW-7A, MW-8A, and MW-10 through MW-18) were sampled and analyzed for BTEX and MTBE. Monitoring well MW-2 was not sampled due to the presence of 0.13 feet of LPH. Monitoring well MW-9 could not be located and therefore could not be gauged or sampled. Dissolved oxygen readings were collected from MW-1, MW-3, MW-5, MW-7A, MW-8A, and MW-10 through MW-18.

BTEX concentrations ranged from non-detect at two (2) wells (MW-5 and MW-15) to 10,593 µg/L (MW-10). MTBE concentrations ranged from non-detect at eight (8) wells (MW-1, MW-3, MW-5, MW-7A, MW-14, and MW-16 through MW-18) to 708 µg/L (MW-10).

Site Conceptual Model and Remedial Alternatives Analysis

GES submitted a Site Conceptual Model and Remedial Alternatives Analysis (RAA) Report to NYSDEC on December 18, 2012. Once NYSDEC approves the approach as specified in the RAA, GES will submit a Remedial Action Work Plan (RAWP) detailing excavation activities.

GES will continue to perform quarterly monitoring in March 2013. The 1st quarter 2013 Site Status Update Report will be submitted in April 2013.

Should you have any questions or comments regarding the information provided herein, please contact Jessica Ferngren at (800)360-9405 ext. 4333.

Respectfully Submitted,
Groundwater & Environmental Services, Inc.

Jessica Ferngren
Senior Project Manager

Enclosure

cc: Laurie McCarthy-Exxon Mobil Environmental Services Company

EXXONMOBIL ENVIRONMENTAL SERVICES COMPANY
SITE STATUS UPDATE REPORT

Site ID:	Former Mobil Station #17-EMW	**Regulatory Agency:**	NYSDEC - Region 2
Site Address:	304 Columbia Street Brooklyn, New York	**Regulatory Contact:**	Michael MacCabe, P.E.
ExxonMobil Contact:	Laurie McCarthy	**NYSDEC Spill #(s):**	89-04339
Consultant:	Groundwater & Environmental Services, Inc. (GES)	**GES Project Manager:**	Jessica Ferngren

Report Date: January 16, 2013

Monitoring Period: October through December 2012

Current Site Status: The site is currently an automobile repair facility.

Work Performed:

- December 18, 2012 – Conducted quarterly groundwater monitoring activities which included gauging of 15 wells (MW-1 through MW-3, MW-5, MW-7A, MW-8A, and MW-10 through MW-18) and sampling of 14 wells (MW-1, MW-3, MW-5, MW-7A, MW-8A, and MW-10 through MW-18). Monitoring well MW-2 was not sampled due to the presence of 0.13 feet of LPH. Monitoring well MW-9 could not be located and therefore no sample was collected. Dissolved oxygen readings were collected from MW-1, MW-3, MW-5, MW-7A, MW-8A, and MW-10 through MW-18.

  Submitted a Site Conceptual Model (SCM) and Remedial Alternatives Analysis (RAA) for NYSDEC review.

Groundwater Monitoring:

Number of Wells:	**Total = 16** On-site Wells: MWs (12): MW-1 through MW-3, MW-5, MW-7A, MW-11 through MW-14 and MW-16 through MW-18 Off-site Wells: MWs (4): MW-8A, MW-9, MW-10 and MW-15
Gauging Frequency:	Quarterly
LPH:	6/8/2012 MW-2 = 0.03 ft 9/7/2012 MW-2 = 0.04 ft 12/18/2012 MW-2 = 0.13 ft
Groundwater Depth:	8.61 (MW-11) to 10.83 (MW-10) feet below TOC
Groundwater Flow:	Southwesterly
Sampling Frequency:	Quarterly
Groundwater Analytical Results:	BTEX: ND at two (2) wells (MW-5 and MW-15) to 10,593 µg/L (MW-10) MTBE: ND at eight (8) wells (MW-1, MW-3, MW-5, MW-7A, MW-14, and MW-16 through MW-18) to 708 µg/L (MW-10)

Proposed Plans:

- Conduct quarterly groundwater sampling in March 2013.
- Prepare a Site Status Update Report in April 2013 documenting the quarterly site activities.
- Prepare a Remedial Action Work Plan within 45 days of SCM/RAA Report approval from NYSDEC.

Attachments:

Table 1 – Historical Groundwater Monitoring Data

Figure 1 – Groundwater Monitoring Map – December 18, 2012

Attachment A – List of Acronyms
Attachment B – Site History
Attachment C – Laboratory Analytical Results – Groundwater

TABLES

Table 1

HISTORICAL GROUNDWATER MONITORING DATA

Former Mobil Station #17-EMW
304 Columbia Street
Brooklyn, New York

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	GW Elevation (ft)	Depth to Product (ft)	Product Thickness (ft)	Prod Adj GW Elevation (ft)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	Total BTEX (µg/L)	MTBE (µg/L)	Dissolved Oxygen (mg/L)
NYSDEC TOGS 1.1.1 GWQS								**1**	**5**	**5**	**5**	**NS**	**10**	**NS**
MW-1	02/28/2005	100.00	8.48	91.52	8.47	0.01	91.53	-	-	-	-	-	-	-
	06/06/2005		8.41	91.59	8.40	0.01	91.60	-	-	-	-	-	-	-
	09/08/2005		9.10	90.90	9.02	0.08	90.96	-	-	-	-	-	-	-
	12/29/2005		7.95	92.05	7.94	0.01	92.06	-	-	-	-	-	-	-
	03/20/2006		8.69	91.31	8.60	0.09	91.38	-	-	-	-	-	-	-
	06/07/2006		7.65	92.35	-	-	92.35	-	-	-	-	-	-	-
	09/14/2006		7.70	92.30	7.51	0.19	92.44	-	-	-	-	-	-	-
	12/07/2006		7.88	92.12	7.62	0.26	92.32	-	-	-	-	-	-	-
	03/29/2007		8.44	91.56	8.28	0.16	91.68	-	-	-	-	-	-	-
	09/19/2007		9.03	90.97	8.68	0.35	91.23	-	-	-	-	-	-	-
	12/11/2007		9.10	90.90	9.08	0.02	90.92	-	-	-	-	-	-	-
	03/13/2008		8.46	91.54	-	-	91.54	220	79.8	830	414	1,543.8	14.9	-
	06/06/2008		8.61	91.39	-	-	91.39	271	89.1	817	481	1,658.1	17.3	-
	12/30/2008		8.24	91.76	-	-	91.76	216	67.8	539	336	1,158.8	13.2	-
	03/16/2009		9.41	90.59	-	-	90.59	215	78.8	761	474	1,528.8	9	-
	06/08/2009		8.23	91.77	-	-	91.77	24	88.4	551	692	1,355.4	ND<5	-
	07/20/2009		8.48	91.52	8.20	0.28	91.73	-	-	-	-	-	-	-
	09/24/2009		9.12	90.88	8.98	0.14	90.99	-	-	-	-	-	-	-
	12/03/2009		8.96	91.04	8.86	0.10	91.12	-	-	-	-	-	-	-
	03/03/2010		7.98	92.02	-	-	92.02	109	75.2	948	293	1,425.2	3.6	0.68
	06/07/2010		8.31	91.69	8.27	0.04	91.72	-	-	-	-	-	-	-
	09/01/2010		9.36	90.64	-	-	90.64	89.3	86.5	1,010	405	1,590.8	ND<20	-
	12/03/2010		9.13	90.87	9.10	0.03	90.89	-	-	-	-	-	-	-
	03/29/2011		8.01	91.99	7.84	0.17	92.12	-	-	-	-	-	-	-
	06/16/2011		5.53	94.47	5.13	0.40	94.77	-	-	-	-	-	-	-
	08/08/2011		9.06	90.94	8.88	0.18	91.08	-	-	-	-	-	-	-
	09/19/2011		7.75	92.25	7.37	0.38	92.54	-	-	-	-	-	-	-
	12/05/2011		8.24	91.76	8.12	0.12	91.85	-	-	-	-	-	-	-
	03/16/2012		9.32	90.68	9.29	0.03	90.70	-	-	-	-	-	-	-
	06/08/2012		8.44	91.56	-	-	91.56	33.0	29.2	199	147	408.2	ND<1.00	-
	09/07/2012		8.81	91.19	-	-	91.19	33.5	20.5	270	119	443.0	ND<1.00	0.45
	12/18/2012		8.93	91.07	-	-	91.07	33.5	25.4	363	203	624.9	ND<1.00	0.38
MW-2	02/28/2005	100.16	8.78	91.38	8.77	0.01	91.39	-	-	-	-	-	-	-
	06/06/2005		8.66	91.50	8.65	0.01	91.51	-	-	-	-	-	-	-
	09/08/2005		9.87	90.29	9.62	0.25	90.48	-	-	-	-	-	-	-
	12/29/2005		8.26	91.90	8.25	0.01	91.91	-	-	-	-	-	-	-
	03/20/2006		8.96	91.20	8.88	0.08	91.26	-	-	-	-	-	-	-
	06/07/2006		7.73	92.43	-	-	92.43	-	-	-	-	-	-	-
	09/14/2006		7.90	92.26	7.58	0.32	92.50	-	-	-	-	-	-	-
	12/07/2006		8.20	91.96	7.80	0.40	92.26	-	-	-	-	-	-	-
	03/29/2007		8.81	91.35	8.72	0.09	91.42	-	-	-	-	-	-	-

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Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	GW Elevation (ft)	Depth to Product (ft)	Product Thickness (ft)	Prod Adj GW Elevation (ft)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	Total BTEX (µg/L)	MTBE (µg/L)	Dissolved Oxygen (mg/L)
NYSDEC TOGS 1.1.1 GWQS								**1**	**5**	**5**	**5**	**NS**	**10**	**NS**
MW-2 Con't	06/13/2007		8.15	92.01	7.72	0.43	92.33	-	-	-	-	-	-	-
	09/19/2007		9.18	90.98	8.68	0.50	91.36	-	-	-	-	-	-	-
	12/11/2007		9.35	90.81	9.28	0.07	90.86	-	-	-	-	-	-	-
	03/13/2008		8.77	91.39	-	-	91.39	204	18	130	109	461	ND<2	-
	06/06/2008		9.10	91.06	-	-	91.06	378	25	137	93.3	633.3	71	-
	12/30/2008		8.56	91.60	-	-	91.60	305	27	50	84.4	466.4	37	-
	03/16/2009		9.71	90.45	-	-	90.45	246	18	23	53.4	340.4	67	-
	06/08/2009		8.61	91.55	8.53	0.08	91.61	-	-	-	-	-	-	-
	07/20/2009		9.47	90.69	8.35	1.12	91.53	-	-	-	-	-	-	-
	09/24/2009		9.06	91.10	9.01	0.05	91.14	-	-	-	-	-	-	-
	12/03/2009		9.75	90.41	9.05	0.70	90.94	-	-	-	-	-	-	-
	03/03/2010		8.30	91.86	8.27	0.03	91.88	-	-	-	-	-	-	-
	06/07/2010		9.07	91.09	8.36	0.71	91.62	-	-	-	-	-	-	-
	09/01/2010		9.94	90.22	-	-	90.22	530	22	202	105	859	155	-
	12/03/2010		9.37	90.79	-	-	90.79	500	52.4	336	232	1,120.4	120	-
	03/29/2011		8.74	91.42	8.08	0.66	91.92	-	-	-	-	-	-	-
	06/16/2011		9.80	90.36	8.30	1.50	91.49	-	-	-	-	-	-	-
	08/08/2011		9.43	90.73	9.06	0.37	91.01	-	-	-	-	-	-	-
	09/19/2011		7.81	92.35	7.50	0.31	92.58	-	-	-	-	-	-	-
	12/05/2011		9.10	91.06	8.42	0.68	91.57	-	-	-	-	-	-	-
	03/16/2012		10.10	90.06	9.58	0.52	90.45	-	-	-	-	-	-	-
	06/08/2012		8.75	91.41	8.72	0.03	91.43	-	-	-	-	-	-	-
	09/07/2012		8.95	91.21	8.91	0.04	91.24	-	-	-	-	-	-	-
	12/18/2012		10.02	90.14	9.89	0.13	90.24	-	-	-	-	-	-	-
MW-3	02/28/2005	100.43	9.32	91.11	-	-	91.11	120	38.5	167	151	476.5	13.1	-
	06/06/2005		9.21	91.22	-	-	91.22	37.6	22.5	135	113	308.1	3.5	-
	09/08/2005		9.67	90.76	-	-	90.76	86	23.5	47.9	139	296.4	7.8	-
	12/29/2005		8.50	91.93	-	-	91.93	11.3	0.88 J	28.9	15.3	56.38	0.88 J	-
	03/20/2006		9.98	90.45	-	-	90.45	218	12.1	94.6	61.9	386.6	24.7	-
	06/07/2006		7.51	92.92	-	-	92.92	9.9	2.6	27.2	12.1	51.8	ND<1	-
	09/14/2006		7.57	92.86	-	-	92.86	17.8	ND<1	20.8	3.9	42.5	ND<1	-
	12/07/2006		7.90	92.53	-	-	92.53	10.4	ND<1	15.7	2	28.1	0.51 J	-
	03/29/2007		8.69	91.74	-	-	91.74	0.94 J	ND<1	5.1	1	7.04	ND<1	-
	06/13/2007		7.95	92.48	-	-	92.48	3.6	ND<1	6.8	0.52 J	10.92	ND<1	-
	09/19/2007		9.45	90.98	-	-	90.98	61.8	1.70	63.2	7.8	134.50	9.5	-
	12/11/2007		9.75	90.68	-	-	90.68	71.3	12.8	101	24.8	209.9	7.4	-
	03/13/2008		8.56	91.87	-	-	91.87	10.8	ND<1	3	0.72 J	14.52	ND<1	-
	06/06/2008		9.46	90.97	-	-	90.97	76.1	9.5	46.5	17.9	150.0	15	-
	12/30/2008		8.49	91.94	-	-	91.94	5.8	0.44 J	0.28 J	ND<1	6.52	0.53 J	-
	03/16/2009		10.02	90.41	-	-	90.41	113	13.5	6	20.8	153.3	20.2	-
	06/08/2009		8.33	92.10	-	-	92.10	1.7	ND<1	1.4	ND<1	3.1	ND<1	-

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Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	GW Elevation (ft)	Depth to Product (ft)	Product Thickness (ft)	Prod Adj GW Elevation (ft)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	Total BTEX (µg/L)	MTBE (µg/L)	Dissolved Oxygen (mg/L)
NYSDEC TOGS 1.1.1 GWQS								**1**	**5**	**5**	**5**	**NS**	**10**	**NS**
MW-3 Con't	07/20/2009		9.39	91.04	-	-	91.04	92	4	10.6	13.4	120.0	13.2	2.08
	09/24/2009		9.57	90.86	-	-	90.86	153	12.1	79.5	97.3	341.9	ND<1	0.64
	12/03/2009		9.60	90.83	-	-	90.83	92.7	8.4	90.4	79.1	270.6	3.1	0.64
	03/03/2010		8.18	92.25	-	-	92.25	0.27 J	ND<1	1.7	1.6	3.57	ND<1	0.71
	06/07/2010		9.18	91.25	-	-	91.25	3	0.50 J	6.8	3.2	13.50	1.2	0.60
	09/01/2010		10.66	89.77	-	-	89.77	49.3	28.8	164	170	412.1	25.8	0.52
	12/03/2010		9.58	90.85	-	-	90.85	3.9	2.7	30.9	26.5	64.0	ND<1	0.56
	03/29/2011		8.25	92.18	-	-	92.18	ND<1	ND<1	0.36 J	0.33 J	0.69	ND<1	1.39
	06/16/2011		8.90	91.53	-	-	91.53	2.8 J	2.1 J	49.5	31.2	85.6	ND<5	5.28
	08/08/2011		9.51	90.92	-	-	90.92	23.1	17.4	157	114	311.5	ND<1	0.76
	03/16/2012		9.97	90.46	-	-	90.46	25	43	867	386	1,321	ND<1	-
	06/08/2012		9.27	91.16	-	-	91.16	14.9	27.0	389	208	638.9	ND<1.00	-
	09/07/2012		9.41	91.02	-	-	91.02	3.67	7.33	110	83.2	204.20	ND<1.00	0.41
	12/18/2012		9.51	90.92	-	-	90.92	19.2	31.6	378	278	706.8	ND<1.00	0.18
MW-4	02/28/2005	100.05	9.02	91.03	-	-	91.03	50	2.6	11	25	88.6	ND<1	-
	06/06/2005		9.18	90.87	-	-	90.87	4.6	ND<1	0.49 J	ND<1	5.09	ND<1	-
	12/29/2005		8.54	91.51	-	-	91.51	ND<1	ND<1	ND<1	ND<1	ND<4	ND<1	-
	03/20/2006		9.16	90.89	-	-	90.89	9.1	ND<1	0.62 J	0.59 J	10.31	ND<1	-
	06/07/2006		8.00	92.05	-	-	92.05	ND<1	ND<1	ND<1	ND<1	ND<4	ND<1	-
	09/14/2006		WELL DESTROYED	-	-	-	-	-	-	-	-	-	-	-
MW-5	02/28/2005	101.15	8.47	92.68	-	-	92.68	0.86 J	ND<1	1.6	8.1	10.56	3.1	-
	06/06/2005		8.73	92.42	-	-	92.42	ND<1	ND<1	ND<1	ND<1	ND<4	ND<1	-
	09/08/2005		-	-	-	-	-	ND<1	ND<1	4.7	7.3	12.0	ND<1	-
	12/29/2005		7.95	93.20	-	-	93.20	ND<1	ND<1	ND<1	ND<1	ND<4	ND<1	-
	03/20/2006		8.63	92.52	-	-	92.52	ND<1	ND<1	ND<1	ND<1	ND<4	ND<1	-
	06/07/2006		8.12	93.03	-	-	93.03	ND<1	ND<1	ND<1	0.65 J	0.65	ND<1	-
	12/07/2006		7.97	93.18	-	-	93.18	ND<1	ND<1	ND<1	ND<1	ND<4	ND<1	-
	03/29/2007		8.10	93.05	-	-	93.05	ND<1	ND<1	ND<1	ND<1	ND<4	ND<1	-
	06/13/2007		7.68	93.47	-	-	93.47	ND<1	ND<1	ND<1	ND<1	ND<4	ND<1	-
	09/19/2007		8.96	92.19	-	-	92.19	ND<1	ND<1	ND<1	ND<1	ND<4	ND<1	-
	12/11/2007		9.20	91.95	-	-	91.95	ND<1	ND<1	ND<1	ND<1	ND<4	ND<1	-
	03/13/2008		8.56	92.59	-	-	92.59	ND<1	ND<1	ND<1	ND<1	ND<4	ND<1	-
	06/06/2008		8.85	92.30	-	-	92.30	ND<1	ND<1	ND<1	ND<1	ND<4	ND<1	-
	12/30/2008		8.09	93.06	-	-	93.06	ND<1	ND<1	ND<1	ND<1	ND<4	ND<1	-
	03/16/2009		9.41	91.74	-	-	91.74	ND<1	ND<1	ND<1	ND<1	ND<4	ND<1	-
	06/08/2009		8.40	92.75	-	-	92.75	ND<1	ND<1	ND<1	ND<1	ND<4	ND<1	-
	07/20/2009		8.63	92.52	-	-	92.52	-	-	-	-	-	-	-
	09/24/2009		9.29	91.86	-	-	91.86	ND<1	ND<1	ND<1	ND<1	ND<4	ND<1	0.75
	12/03/2009		9.00	92.15	-	-	92.15	ND<1	ND<1	ND<1	ND<1	ND<4	ND<1	0.94
	03/03/2010		7.74	93.41	-	-	93.41	ND<1	ND<1	ND<1	0.35 J	0.35	ND<1	0.91
	06/07/2010		8.73	92.42	-	-	92.42	ND<1	ND<1	ND<1	ND<1	ND<4	ND<1	1.51

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NYSDEC TOGS 1.1.1 GWQS								**1**	**5**	**5**	**5**	**NS**	**10**	**NS**
MW-5 Con't	09/01/2010		9.61	91.54	-	-	91.54	ND<1	ND<1	ND<1	ND<1	ND<4	ND<1	1.18
	12/03/2010		9.40	91.75	-	-	91.75	ND<1	ND<1	ND<1	ND<1	ND<4	0.35 J	0.47
	03/29/2011		7.91	93.24	-	-	93.24	ND<1	ND<1	ND<1	ND<1	ND<4	ND<1	1.41
	06/16/2011		8.60	92.55	-	-	92.55	ND<1	ND<1	ND<1	0.25 J	0.25	ND<1	1.41
	08/08/2011		9.17	91.98	-	-	91.98	ND<1	ND<1	ND<1	ND<1	ND<4	1.3	4.76
	09/19/2011		7.64	93.51	-	-	93.51	ND<1	ND<1	ND<1	ND<1	ND<4	ND<1	2
	12/05/2011		8.40	92.75	-	-	92.75	ND<0.22	ND<0.15	ND<0.21	ND<0.17	ND<0.75	ND<0.18	-
	03/16/2012		9.37	91.78	-	-	91.78	ND<1	ND<1	ND<1	ND<3	ND<6	ND<1	-
	06/08/2012		8.60	92.55	-	-	92.55	ND<1.00	ND<1.00	ND<1.00	ND<3.00	ND<6.00	ND<1.00	-
	09/07/2012		9.19	91.96	-	-	91.96	ND<1.00	ND<1.00	ND<1.00	ND<3.00	ND<6.00	ND<1.00	0.45
	12/18/2012		9.01	92.14	-	-	92.14	ND<1.00	ND<1.00	ND<1.00	ND<3.00	ND<6.00	ND<1.00	0.21
MW-6A	02/28/2005	101.17	8.29	92.88	-	-	92.88	ND<1	ND<1	ND<1	ND<1	ND<4	ND<1	-
	06/06/2005		WELL DESTROYED	-	-	-	-	-	-	-	-	-	-	-
MW-7A	02/28/2005	101.24	9.67	91.57	-	-	91.57	151	3.8	3	8.8	166.6	2.5	-
	06/06/2005		9.59	91.65	-	-	91.65	13	ND<1	ND<1	ND<1	13	ND<1	-
	12/29/2005		9.27	91.97	-	-	91.97	105	1	5.2	4	115.2	3.2	-
	03/20/2006		9.57	91.67	-	-	91.67	9.4	ND<1	ND<1	0.46 J	9.86	0.51 J	-
	06/07/2006		8.72	92.52	-	-	92.52	328	9.2	20	49	406.2	1.8	-
	09/14/2006		8.52	92.72	-	-	92.72	4.7	ND<1	0.35 J	ND<1	5.05	ND<1	-
	12/07/2006		8.75	92.49	-	-	92.49	ND<1	ND<1	ND<1	ND<1	ND<4	ND<1	-
	03/29/2007		9.48	91.76	-	-	91.76	291	6	8.2	17	322.2	ND<1	-
	06/13/2007		8.56	92.68	-	-	92.68	448	18	28	53	547	2.4	-
	09/19/2007		9.55	91.69	-	-	91.69	ND<1	ND<1	ND<1	ND<1	ND<4	ND<1	-
	12/11/2007		10.27	90.97	-	-	90.97	ND<1	ND<1	ND<1	ND<1	ND<4	2.3	-
	03/13/2008		9.56	91.68	-	-	91.68	202	3.7	8.4	10	224.1	<2.0	-
	06/06/2008		9.74	91.50	-	-	91.50	4.5	ND<1	ND<1	ND<1	4.5	0.31 J	-
	12/30/2008		9.53	91.71	-	-	91.71	335	4.6	3.4	21	364.0	1.9	-
	03/16/2009		10.58	90.66	-	-	90.66	ND<1	ND<1	ND<1	ND<1	ND<4	ND<1	-
	06/08/2009		9.52	91.72	-	-	91.72	30	ND<1	ND<1	ND<1	30	ND<1	-
	07/20/2009		8.98	92.26	-	-	92.26	1	ND<1	ND<1	ND<1	1	0.48 J	10
	09/24/2009		10.07	91.17	-	-	91.17	ND<1	ND<1	ND<1	ND<1	ND<4	ND<1	0.52
	12/03/2009		10.11	91.13	-	-	91.13	ND<1	ND<1	ND<1	ND<1	ND<4	0.52 J	0.62
	03/03/2010		9.41	91.83	-	-	91.83	145	2.9	5.5	5.6	159.0	1.2	0.64
	06/07/2010		9.36	91.88	-	-	91.88	0.36 J	ND<1	ND<1	ND<1	0.36	ND<1	2.37
	09/01/2010		10.50	90.74	-	-	90.74	ND<1	ND<1	ND<1	ND<1	ND<4	ND<1	1.22
	12/03/2010		10.31	90.93	-	-	90.93	ND<1	ND<1	ND<1	ND<1	ND<4	ND<1	1.2
	03/29/2011		8.87	92.37	-	-	92.37	1.7	ND<1	ND<1	ND<1	1.7	ND<1	-
	06/16/2011		9.55	91.69	9.30	0.25	91.88	-	-	-	-	-	-	-
	08/08/2011		9.99	91.25	9.98	0.01	91.26	-	-	-	-	-	-	-
	09/19/2011		INACCESSIBLE	-	-	-	-	-	-	-	-	-	-	-
	03/16/2012		10.48	90.76	-	-	90.76	107	1.31	3.55	ND<3	111.86	1.09	-

Table 1

HISTORICAL GROUNDWATER MONITORING DATA

Former Mobil Station #17-EMW
304 Columbia Street
Brooklyn, New York

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	GW Elevation (ft)	Depth to Product (ft)	Product Thickness (ft)	Prod Adj GW Elevation (ft)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	Total BTEX (µg/L)	MTBE (µg/L)	Dissolved Oxygen (mg/L)
NYSDEC TOGS 1.1.1 GWQS								**1**	**5**	**5**	**5**	**NS**	**10**	**NS**
MW-7A Con't	06/08/2012		9.76	91.48	-	-	91.48	143	4.03	25.3	7.23	179.56	1.12	-
	09/07/2012		10.02	91.22	-	-	91.22	14.4	ND<1.00	ND<1.00	ND<3.00	14.4	ND<1.00	1.24
	12/18/2012		10.13	91.11	-	-	91.11	12.9	ND<1.00	ND<1.00	ND<3.00	12.9	ND<1.00	0.53
MW-8A	02/28/2005	100.59	10.02	90.57	-	-	90.57	1,430	369	1,020	3,180	5,999	4,720	-
	06/06/2005		9.48	91.11	-	-	91.11	1,660	391	1,150	3,960	7,161	3,980	-
	09/08/2005		10.02	90.57	-	-	90.57	2,030	447	1,200	3,880	7,557	3,640	-
	12/29/2005		9.18	91.41	-	-	91.41	434	49.3	216	675	1,374.3	250	-
	03/20/2006		9.87	90.72	-	-	90.72	2,060	467	1,220	4,040	7,787	4,730	-
	09/14/2006		8.74	91.85	-	-	91.85	2,170	510	1,380	4,320	8,380	2,370	-
	12/07/2006		8.62	91.97	-	-	91.97	1,660	430	1,350	4,570	8,010	1,980	-
	03/29/2007		9.52	91.07	-	-	91.07	1,420	341	908	2,370	5,039	2,960	-
	06/13/2007		8.55	92.04	-	-	92.04	444	155	694	1,770	3,063	380	-
	09/19/2007		9.36	91.23	-	-	91.23	1,090	267	915	2,570	4,842	1,160	-
	12/11/2007		10.13	90.46	-	-	90.46	1,530	305	1,090	3,420	6,345	1,570	-
	03/13/2008		9.69	90.90	-	-	90.90	1,580	315	1,140	3,430	6,465	1,850	-
	06/06/2008		9.35	91.24	-	-	91.24	1,230	280	1,070	2,610	5,190	806	-
	12/30/2008		9.17	91.42	-	-	91.42	82.5	21.3	131	237	471.8	22.6	-
	06/08/2009		9.18	91.41	-	-	91.41	292	64.9	348	616	1,320.9	129	-
	07/20/2009		9.10	91.49	-	-	91.49	292	72.8	324	525	1,213.8	149	1.63
	09/24/2009		10.79	89.80	-	-	89.80	984	223	909	2,320	4,436	542	1.56
	12/03/2009		9.75	90.84	-	-	90.84	1,030	235	1,060	2,240	4,565	452	0.70
	03/03/2010		9.25	91.34	-	-	91.34	691	177	762	2,070	3,700	185	0.58
	06/07/2010		9.17	91.42	-	-	91.42	1,020	213	869	2,060	4,162	766	1.02
	09/01/2010		10.18	90.41	-	-	90.41	1,520	291	1,070	3,030	5,911	939	0.97
	12/03/2010		10.00	90.59	-	-	90.59	942	253	745	1,900	3,840	555	0.91
	03/29/2011		9.46	91.13	-	-	91.13	1,070	227	831	1,860	3,988	418	0.39
	09/19/2011		8.26	92.33	-	-	92.33	779	157	533	1,060	2,529	298	1.37
	12/05/2011		9.20	91.39	-	-	91.39	1,540	222	682	1,530	3,974	637	-
	03/16/2012		10.07	90.52	-	-	90.52	2,220	386	1,410	5,250	9,266	1,100	-
	06/08/2012		9.84	90.75	-	-	90.75	808	111	434	1,200	2,553	983	10
	09/07/2012		10.00	90.59	-	-	90.59	985	154	341	953	2,433	376	1.23
	12/18/2012		10.78	89.81	-	-	89.81	1,300	231	496	2,200	4,227	336	0.18
MW-9	02/28/2005	100.10	9.45	90.65	-	-	90.65	ND<1	ND<1	ND<1	ND<1	ND<4	1.8	-
	06/06/2005		9.38	90.72	-	-	90.72	ND<1	ND<1	ND<1	ND<1	ND<4	1.1	-
	09/08/2005		10.01	90.09	-	-	90.09	ND<1	ND<1	0.73 J	2	2.73	7.3	-
	12/29/2005		8.88	91.22	-	-	91.22	ND<1	ND<1	ND<1	ND<1	ND<4	16.7	-
	03/20/2006		9.65	90.45	-	-	90.45	ND<1	ND<1	ND<1	ND<1	ND<4	9.8	-
	09/14/2006		8.93	91.17	-	-	91.17	0.93 J	ND<1	0.43 J	1.1	2.46	20.8	-
	12/07/2006		8.72	91.38	-	-	91.38	0.88 J	0.72 J	ND<1	3.6	5.20	45	-
	03/29/2007		9.09	91.01	-	-	91.01	ND<1	ND<1	ND<1	ND<1	ND<4	46.8	-
	06/13/2007		8.64	91.46	-	-	91.46	4.9	1.7	ND<1	6.4	13.0	60	-

Table 1

HISTORICAL GROUNDWATER MONITORING DATA

Former Mobil Station #17-EMW
304 Columbia Street
Brooklyn, New York

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	GW Elevation (ft)	Depth to Product (ft)	Product Thickness (ft)	Prod Adj GW Elevation (ft)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	Total BTEX (µg/L)	MTBE (µg/L)	Dissolved Oxygen (mg/L)
NYSDEC TOGS 1.1.1 GWQS								**1**	**5**	**5**	**5**	**NS**	**10**	**NS**
MW-9	09/19/2007		9.39	90.71	-	-	90.71	0.35 J	ND<1	ND<1	0.97 J	1.32	19.2	-
Con't	12/11/2007		9.80	90.30	-	-	90.30	ND<1	ND<1	ND<1	ND<1	ND<4	15.7	-
	03/13/2008		8.98	91.12	-	-	91.12	ND<1	ND<1	ND<1	ND<1	ND<4	6.5	-
	06/06/2008		9.19	90.91	-	-	90.91	ND<1	ND<1	ND<1	ND<1	ND<4	6.2	-
	12/30/2008		8.75	91.35	-	-	91.35	ND<1	ND<1	ND<1	ND<1	ND<4	2.6	-
	07/20/2009		9.10	91.00	-	-	91.00	-	-	-	-	-	-	-
	09/24/2009		9.71	90.39	-	-	90.39	ND<1	ND<1	ND<1	ND<1	ND<4	2.6	1.71
	12/03/2009		9.62	90.48	-	-	90.48	ND<1	ND<1	ND<1	ND<1	ND<4	4.6	0.86
	03/03/2010		8.47	91.63	-	-	91.63	ND<1	ND<1	ND<1	ND<1	ND<4	0.32 J	0.46
	06/07/2010		9.24	90.86	-	-	90.86	ND<1	ND<1	ND<1	ND<1	ND<4	2.9	1.14
	09/01/2010		10.11	89.99	-	-	89.99	ND<1	ND<1	ND<1	ND<1	ND<4	6.7	0.75
	12/03/2010		9.90	90.20	-	-	90.20	ND<1	ND<1	ND<1	ND<1	ND<4	6.7	0.82
	03/29/2011		9.04	91.06	-	-	91.06	ND<1	ND<1	ND<1	ND<1	ND<4	1.5	0.33
	12/05/2011		9.20	90.90	-	-	90.90	ND<0.22	ND<0.15	ND<0.21	ND<.17	ND<0.75	10.1	-
	03/16/2012		10.33	89.77	-	-	89.77	ND<1	ND<1	ND<1	ND<3	ND<6	9.21	-
	06/08/2012		9.44	90.66	-	-	90.66	ND<1.00	ND<1.00	ND<1.00	ND<3.00	ND<6.00	12.6	-
	09/07/2012		9.79	90.31	-	-	90.31	ND<1.00	ND<1.00	ND<1.00	ND<3.00	ND<6.00	11.0	0.73
	12/18/2012		CNL	-	-	-	-	-	-	-	-	-	-	-
MW-10	02/28/2005	100.50	9.94	90.56	-	-	90.56	5,040	763	1,520	7,160	14,483	10,300	-
	06/06/2005		9.03	91.47	-	-	91.47	823	97.6	298	1,390	2,608.6	1,560	-
	09/08/2005		9.90	90.60	-	-	90.60	2,780	331	1,000	3,840	7,951	5,030	-
	12/29/2005		8.90	91.60	-	-	91.60	754	192	942	1,900	3,788	833	-
	03/20/2006		9.54	90.96	-	-	90.96	6,220	803	1,640	6,970	15,633	10,500	-
	06/07/2006		9.01	91.49	-	-	91.49	4,580	459	1,150	4,290	10,479	6,210	-
	09/14/2006		8.58	91.92	-	-	91.92	4,900	625	1,520	5,930	12,975	6,740	-
	12/07/2006		8.52	91.98	-	-	91.98	3,070	504	2,030	7,360	12,964	1,410	-
	03/29/2007		9.40	91.10	-	-	91.10	7,050	1,180	3,550	11,900	23,680	6,820	-
	06/13/2007		8.42	92.08	-	-	92.08	1,450	231	909	2,980	5,570	466	-
	09/19/2007		9.22	91.28	-	-	91.28	3,380	445	1,400	4,500	9,725	1,310	-
	12/11/2007		11.03	89.47	-	-	89.47	3,030	411	1,360	4,010	8,811	1,750	-
	03/13/2008		9.56	90.94	-	-	90.94	4,270	530	1,520	5,160	11,480	2,470	-
	06/06/2008		9.25	91.25	-	-	91.25	3,080	414	1,510	4,450	9,454	1,260	-
	12/30/2008		9.05	91.45	-	-	91.45	903	115	649	1,500	3,167	213	-
	06/08/2009		8.97	91.53	-	-	91.53	1,110	143	658	1,440	3,351	166	-
	07/20/2009		8.98	91.52	-	-	91.52	1,050	157	593	1,250	3,050	97.1	1.47
	09/24/2009		9.59	90.91	-	-	90.91	2,390	374	1,490	3,210	7,464	315	1.53
	12/03/2009		9.55	90.95	-	-	90.95	3,380	673	3,900	3,990	11,943	698	0.52
	03/03/2010		9.25	91.25	-	-	91.25	3,450	440	1,400	3,440	8,730	1,810	1.21
	06/07/2010		9.02	91.48	-	-	91.48	3,210	403	1,260	2,760	7,633	1,380	1.27
	09/01/2010		10.00	90.50	-	-	90.50	4,870	485	1,830	4,040	11,225	1,580	2.1
	12/03/2010		9.80	90.70	-	-	90.70	3,950	496	1,510	3,180	9,136	ND<10	0.82

Table 1

HISTORICAL GROUNDWATER MONITORING DATA

Former Mobil Station #17-EMW
304 Columbia Street
Brooklyn, New York

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	GW Elevation (ft)	Depth to Product (ft)	Product Thickness (ft)	Prod Adj GW Elevation (ft)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	Total BTEX (µg/L)	MTBE (µg/L)	Dissolved Oxygen (mg/L)
NYSDEC TOGS 1.1.1 GWQS								**1**	**5**	**5**	**5**	**NS**	**10**	**NS**
MW-10 Con't	03/29/2011		9.35	91.15	-	-	91.15	5,450	594	1,550	3,700	11,294	1,640	1.19
	06/16/2011		8.80	91.70	-	-	91.70	5,410	555	1,450	3,580	10,995	1,160	1.32
	08/08/2011		9.72	90.78	-	-	90.78	6,180	645	1,450	3,460	11,735	1,030	0.65
	09/19/2011		8.19	92.31	-	-	92.31	1,810	162	497	957	3,426	191	4.48
	12/05/2011		9.00	91.50	-	-	91.50	3,790	443	1,910	3,860	10,003	610	-
	03/16/2012		10.51	89.99	-	-	89.99	5,350	744	2,220	5,690	14,004	1,210	-
	06/08/2012		9.47	91.03	-	-	91.03	3,780	343	859	1,720	6,702	860	7
	09/07/2012		10.04	90.46	-	-	90.46	3,930	334	738	2,290	7,292	777	11.63
	12/18/2012		10.83	89.67	-	-	89.67	5,460	623	1,170	3,340	10,593	708	0.21
MW-11	02/28/2005	99.62	8.14	91.48	-	-	91.48	619	576	1,050	4,270	6,515	77	-
	06/06/2005		8.07	91.55	-	-	91.55	616	410	1,070	5,050	7,146	71	-
	09/08/2005		8.81	90.81	8.78	0.03	90.83	-	-	-	-	-	-	-
	12/29/2005		11.63	87.99	-	-	87.99	697	249	1,170	3,630	5,746	57	-
	03/20/2006		8.13	91.49	-	-	91.49	625	294	1,070	4,130	6,119	39	-
	06/07/2006		7.45	92.17	-	-	92.17	-	-	-	-	-	-	-
	09/14/2006		7.13	92.49	7.11	0.02	92.51	-	-	-	-	-	-	-
	12/07/2006		7.30	92.32	7.28	0.02	92.34	-	-	-	-	-	-	-
	03/29/2007		7.94	91.68	-	-	91.68	531	199	1,030	1,580	3,340	ND<10	-
	06/13/2007		7.18	92.44	-	-	92.44	438	125	738	935	2,236	32	-
	09/19/2007		8.11	91.51	-	-	91.51	718	231	1,050	1,800	3,799	36	-
	12/11/2007		8.70	90.92	8.68	0.02	90.94	-	-	-	-	-	-	-
	03/13/2008		8.20	91.42	-	-	91.42	336	153	860	1,530	2,879	ND<5	-
	06/06/2008		8.17	91.45	-	-	91.45	617	194	954	1,410	3,175	37	-
	12/30/2008		7.91	91.71	-	-	91.71	473	185	990	1,730	3,378	23.9	-
	03/16/2009		9.06	90.56	-	-	90.56	423	192	770	1,610	2,995	20.9	-
	06/08/2009		7.87	91.75	-	-	91.75	575	209	1,110	2,330	4,224	27.4	-
	07/20/2009		7.93	91.69	7.85	0.08	91.75	-	-	-	-	-	-	-
	09/24/2009		8.59	91.03	8.54	0.05	91.07	-	-	-	-	-	-	-
	12/03/2009		8.51	91.11	-	-	91.11	797	142	1,280	1,020	3,239	46.9	0.41
	03/03/2010		7.66	91.96	-	-	91.96	518	110	1,060	1,010	2,698	23.4	1.18
	06/07/2010		7.94	91.68	-	-	91.68	382	33.1	901	498	1,814.1	23.1	1.09
	09/01/2010		8.98	90.64	-	-	90.64	510	131	1,300	1,620	3,561	ND<100	0.88
	12/03/2010		8.71	90.91	-	-	90.91	513	206	911	1,560	3,190	11.3	0.68
	03/29/2011		7.45	92.17	-	-	92.17	68.3	7.60	199	234	508.90	3.20	2.15
	06/16/2011		7.71	91.91	-	-	91.91	148	23.3	293	315	779.3	2.80	4.32
	08/08/2011		8.54	91.08	-	-	91.08	308	48.5	380	385	1,121.5	7.90	2.72
	09/19/2011		6.98	92.64	-	-	92.64	57	12.3	162	171	402.3	1.40	1.27
	12/05/2011		7.81	91.81	-	-	91.81	144	52	304	455	955	4	-
	03/16/2012		8.98	90.64	-	-	90.64	637	149	794	1,580	3,160	12	-
	06/08/2012		8.14	91.48	-	-	91.48	492	161	611	1,090	2,354	9.70	-
	09/07/2012		8.18	91.44	-	-	91.44	604	164	699	1,240	2,707	7.61	0.80

Table 1

HISTORICAL GROUNDWATER MONITORING DATA

Former Mobil Station #17-EMW
304 Columbia Street
Brooklyn, New York

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	GW Elevation (ft)	Depth to Product (ft)	Product Thickness (ft)	Prod Adj GW Elevation (ft)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	Total BTEX (µg/L)	MTBE (µg/L)	Dissolved Oxygen (mg/L)
NYSDEC TOGS 1.1.1 GWQS								**1**	**5**	**5**	**5**	**NS**	**10**	**NS**
MW-11	12/18/2012		8.61	91.01	-	-	91.01	587	184	702	1,320	2,793	7.11	0.25
MW-12	02/28/2005	100.85	9.38	91.47	-	-	91.47	127	6.6	50	57	240.6	24.8	-
	06/06/2005		9.17	91.68	-	-	91.68	250	8.2	29.2	51.4	338.8	129	-
	03/20/2006		9.17	91.68	-	-	91.68	229	9	35.5	50.2	323.7	26.6	-
	06/07/2006		8.68	92.17	-	-	92.17	470	17.4	81.1	86.8	655.3	96.7	-
	09/14/2006		8.13	92.72	-	-	92.72	476	14	42.9	63.2	596.1	55	-
	12/07/2006		8.37	92.48	-	-	92.48	225	7.3	5.1	22.5	259.9	29.4	-
	03/29/2007		9.16	91.69	-	-	91.69	193	3.7	4	12.5	213.2	44.3	-
	06/13/2007		8.28	92.57	-	-	92.57	274	8.3	5.8	24.7	312.8	86.5	-
	09/19/2007		9.16	91.69	-	-	91.69	285	6.2	4.2	20.5	315.9	33	-
	12/11/2007		9.90	90.95	-	-	90.95	249	5	4.2	17.6	275.8	31.6	-
	03/13/2008		9.21	91.64	-	-	91.64	172	3.6	11	14.4	201.0	ND<1	-
	06/06/2008		9.33	91.52	-	-	91.52	134	4.4	8.5	15.8	162.7	20.6	-
	12/30/2008		9.22	91.63	-	-	91.63	603	12.3	115	53.9	784.2	41	-
	03/16/2009		10.21	90.64	-	-	90.64	144	3.2	32.2	17.7	197.1	12.9	-
	06/08/2009		9.16	91.69	-	-	91.69	474	8.6	69.2	33.5	585.3	147	-
	07/20/2009		9.38	91.47	-	-	91.47	14.5	0.56 J	15.2	2.4	32.66	41.9	3.15
	09/24/2009		9.71	91.14	-	-	91.14	54.8	3.1	37.8	21.4	117.1	113	1.56
	12/03/2009		9.75	91.10	-	-	91.10	120	3.9	52.7	28.5	205.1	88.4	1.44
	03/03/2010		9.15	91.70	-	-	91.70	148	3.6	23.1	16.1	190.8	41.4	0.98
	06/07/2010		8.97	91.88	-	-	91.88	22.9	1.1	8.4	7.2	39.6	8.6	0.80
	09/01/2010		10.22	90.63	-	-	90.63	111	2.4	10.7	11.6	135.7	23	3.10
	12/03/2010		10.00	90.85	-	-	90.85	87	1.6	7.5	7	103.1	20.3	3.01
	03/29/2011		8.53	92.32	-	-	92.32	2.1	ND<1	0.34 J	0.32 J	2.76	6.7	0.47
	06/16/2011		8.90	91.95	-	-	91.95	3.5	0.36 J	0.72 J	1.3	5.88	8.9	4.17
	08/08/2011		9.70	91.15	-	-	91.15	24	1.4	3.5	6.6	35.5	32.5	2.23
	09/19/2011		8.39	92.46	-	-	92.46	2.8	0.35 J	2.4	3.2	8.75	ND<1	1.5
	03/16/2012		10.17	90.68	-	-	90.68	27	1.05	8.41	4.22	40.68	24	-
	06/08/2012		9.42	91.43	-	-	91.43	30.2	ND<1.00	4.87	ND<3.00	35.07	24.3	-
	09/07/2012		9.66	91.19	-	-	91.19	38.2	ND<1.00	4.92	ND<3.00	43.12	ND<1.00	0.42
	12/18/2012		9.98	90.87	-	-	90.87	50.5	1.02	5.07	ND<3.00	56.59	13.4	0.27
MW-13	02/28/2005	100.04	8.83	91.21	6.66	2.17	92.84	-	-	-	-	-	-	-
	06/06/2005		8.54	91.50	8.53	0.01	91.51	-	-	-	-	-	-	-
	09/08/2005		9.37	90.67	9.16	0.21	90.83	-	-	-	-	-	-	-
	12/29/2005		8.65	91.39	8.64	0.01	91.40	-	-	-	-	-	-	-
	03/20/2006		6.67	93.37	6.66	0.01	93.38	-	-	-	-	-	-	-
	06/07/2006		7.61	92.43	-	-	92.43	-	-	-	-	-	-	-
	09/14/2006		7.34	92.70	7.32	0.02	92.72	-	-	-	-	-	-	-
	12/07/2006		7.71	92.33	7.56	0.15	92.44	-	-	-	-	-	-	-
	03/29/2007		8.53	91.51	-	-	91.51	76.5	ND<5	ND<5	ND<5	76.5	9.3	-
	06/13/2007		7.55	92.49	-	-	92.49	56.1	2.6	172	56.9	287.6	11	-

Table 1

HISTORICAL GROUNDWATER MONITORING DATA

Former Mobil Station #17-EMW
304 Columbia Street
Brooklyn, New York

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	GW Elevation (ft)	Depth to Product (ft)	Product Thickness (ft)	Prod Adj GW Elevation (ft)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	Total BTEX (µg/L)	MTBE (µg/L)	Dissolved Oxygen (mg/L)
NYSDEC TOGS 1.1.1 GWQS								**1**	**5**	**5**	**5**	**NS**	**10**	**NS**
MW-13 Con't	09/19/2007		8.53	91.51	8.51	0.02	91.53	-	-	-	-	-	-	-
	12/11/2007		9.30	90.74	9.28	0.02	90.76	-	-	-	-	-	-	-
	03/13/2008		8.58	91.46	-	-	91.46	179	6.1	303	74.7	562.8	13.3	-
	06/06/2008		8.70	91.34	-	-	91.34	245	10.2	354	95.8	705.0	20.8	-
	12/30/2008		8.37	91.67	-	-	91.67	226	20.3	394	136	776.3	12.3	-
	03/16/2009		9.76	90.28	-	-	90.28	270	22.8	423	135	850.8	11.9	-
	06/08/2009		8.24	91.80	-	-	91.80	68.6	6.2	129	36.8	240.6	11.7	-
	07/20/2009		8.31	91.73	-	-	91.73	39	7.9	300	88.6	435.5	15.9	1.98
	09/24/2009		9.01	91.03	-	-	91.03	115	4.1	295	44.1	458.2	10.8	0.74
	12/03/2009		8.96	91.08	-	-	91.08	219	7	295	53	574	13.6	1.03
	03/03/2010		7.90	92.14	-	-	92.14	31.8	2.3	109	18.5	161.6	4.8	0.59
	06/07/2010		8.33	91.71	-	-	91.71	21.2	1.7	149	19.9	191.8	18.6	0.94
	09/01/2010		9.44	90.60	-	-	90.60	541	120	884	1,490	3,035	16.9	0.81
	12/03/2010		9.13	90.91	-	-	90.91	321	114	685	1,240	2,360	ND<5	0.66
	03/29/2011		7.90	92.14	-	-	92.14	6	ND<1	8.7	5.2	19.9	3	1.08
	06/16/2011		5.30	94.74	-	-	94.74	31.5	2	62	34.4	129.9	10.5	3.23
	08/08/2011		9.04	91.00	-	-	91.00	212	40.6	260	284	796.6	3.1	7.89
	09/19/2011		7.36	92.68	-	-	92.68	12.3	2	174	57.5	245.8	1.3	8.73
	12/05/2011		8.25	91.79	-	-	91.79	20	1.8	110	44	175.8	3.4	-
	03/16/2012		9.44	90.60	-	-	90.60	194	56	505	294	1,049	1.71	-
	06/08/2012		8.62	91.42	-	-	91.42	135	38.6	331	235	739.6	2.74	-
	09/07/2012		8.92	91.12	-	-	91.12	178	39.2	421	237	875.2	ND<1.00	0.31
	12/18/2012		9.09	90.95	-	-	90.95	308	84.5	663	452	1,507.5	2.82	0.21
MW-14	02/28/2005	100.04	12.87	87.17	-	-	87.17	4.2	0.61 J	1.7	6.7	13.21	2.5	-
	06/06/2005		13.02	87.02	-	-	87.02	12.6	1	2.4	9.3	25.3	ND<1	-
	03/20/2006		13.03	87.01	12.53	0.50	87.39	-	-	-	-	-	-	-
	06/07/2006		8.19	91.85	8.12	0.07	91.90	-	-	-	-	-	-	-
	12/07/2006		13.30	86.74	8.55	4.75	90.30	-	-	-	-	-	-	-
	03/29/2007		10.52	89.52	-	-	89.52	118	4.8	1.4	11.3	135.5	ND<1	-
	06/13/2007		8.38	91.66	-	-	91.66	125	5.6	5.4	41.1	177.1	ND<1	-
	09/19/2007		10.08	89.96	-	-	89.96	121	5	4.1	31.3	161.4	ND<1	-
	12/11/2007		10.95	89.09	10.90	0.05	89.13	-	-	-	-	-	-	-
	03/13/2008		9.73	90.31	-	-	90.31	66.7	2.7	0.76 J	4.6	74.76	ND<1	-
	06/06/2008		10.05	89.99	-	-	89.99	95.5	3.6	1.3	5.8	106.2	ND<1	-
	12/30/2008		9.59	90.45	-	-	90.45	85.3	2.5	0.51 J	2.1	90.41	ND<1	-
	03/16/2009		10.44	89.60	-	-	89.60	101	4.1	0.77 J	4.3	110.17	ND<1	-
	06/08/2009		9.46	90.58	-	-	90.58	54.8	2.3	1.2	4.2	62.5	ND<1	-
	07/20/2009		9.30	90.74	-	-	90.74	51.6	1.3	0.58 J	2.3	55.78	ND<1	3.2
	09/24/2009		10.00	90.04	-	-	90.04	102	3.8	0.90 J	5.9	112.60	ND<1	0.69
	12/03/2009		9.81	90.23	-	-	90.23	147	4.3	1.1	4.6	157.0	ND<1	0.47
	03/03/2010		8.90	91.14	-	-	91.14	13.5	ND<1	ND<1	ND<1	13.5	ND<1	0.71

Table 1

HISTORICAL GROUNDWATER MONITORING DATA

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Brooklyn, New York

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	GW Elevation (ft)	Depth to Product (ft)	Product Thickness (ft)	Prod Adj GW Elevation (ft)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	Total BTEX (µg/L)	MTBE (µg/L)	Dissolved Oxygen (mg/L)
NYSDEC TOGS 1.1.1 GWQS								**1**	**5**	**5**	**5**	**NS**	**10**	**NS**
MW-14 Con't	06/07/2010		9.31	90.73	-	-	90.73	50.3	0.95 J	0.32 J	1.2	52.77	ND<1	0.59
	09/01/2010		10.36	89.68	-	-	89.68	139	3.4	1.2	3.7	147.3	ND<1	0.44
	12/03/2010		10.11	89.93	-	-	89.93	114	4	0.86 J	3.2	122.06	ND<1	0.39
	03/29/2011		8.60	91.44	-	-	91.44	12.7	ND<1	ND<1	ND<1	12.7	ND<1	1.89
	06/16/2011		9.20	90.84	-	-	90.84	41.4	0.55 J	0.27 J	0.53 J	42.75	ND<1	2.4
	08/08/2011		9.87	90.17	-	-	90.17	84.1	0.77 J	ND<1	ND<1	84.87	ND<1	2.42
	09/19/2011		8.22	91.82	-	-	91.82	3.8	ND<1	ND<1	ND<1	3.8	ND<1	1.08
	12/05/2011		9.19	90.85	-	-	90.85	64	0.39	0.22	0.60	65.21	ND<0.18	-
	03/16/2012		10.36	89.68	-	-	89.68	91	1.28	ND<1	ND<3	92.28	ND<1	-
	06/08/2012		9.62	90.42	-	-	90.42	74.8	ND<1.00	ND<1.00	ND<3.00	74.8	ND<1.00	-
	09/07/2012		9.82	90.22	-	-	90.22	117	1.96	ND<1.00	ND<3.00	118.96	ND<1.00	3.35
	12/18/2012		9.84	90.20	-	-	90.20	70.8	1.60	ND<1.00	ND<3.00	72.40	ND<1.00	0.16
MW-15	09/27/2006	100.47	10.72	89.75	-	-	89.75	616	21.1	21.7	64.4	723.2	425	-
	12/07/2006		9.29	91.18	-	-	91.18	522	16.6	8.2	54.5	601.3	114	-
	03/29/2007		9.81	90.66	-	-	90.66	389	14	5.9	30.7	439.6	59.5	-
	06/13/2007		8.99	91.48	-	-	91.48	924	26.7	6	56.8	1,013.5	191	-
	09/19/2007		9.72	90.75	-	-	90.75	747	16.6	3.5	34.1	801.2	104	-
	12/11/2007		10.29	90.18	-	-	90.18	800	15.1	2.8 J	40	857.9	119	-
	03/13/2008		9.85	90.62	-	-	90.62	662	6.4	2.9 J	15.2	686.5	83.4	-
	06/06/2008		9.63	90.84	-	-	90.84	509	5.6	1.2	12.7	528.5	81.1	-
	12/30/2008		9.50	90.97	-	-	90.97	164	1.9	0.58 J	4.6	171.08	16.8	-
	03/16/2009		10.69	89.78	-	-	89.78	540	5.8	1.2	9.5	556.5	57.2	-
	06/08/2009		9.45	91.02	-	-	91.02	141	ND<1	ND<1	1	142	14.8	-
	07/20/2009		9.33	91.14	-	-	91.14	80.7	1.2	0.93 J	3.7	86.53	19.1	1.46
	09/24/2009		9.91	90.56	-	-	90.56	162	3.9	7.3	8.6	181.8	74.5	1.11
	12/03/2009		9.98	90.49	-	-	90.49	432	8.6	7.3	17.4	465.3	52.2	0.77
	03/03/2010		9.41	91.06	-	-	91.06	606	6.4	8.1	18.5	639.0	99.2	0.81
	06/07/2010		9.42	91.05	-	-	91.05	200	3.6	6.2	6.3	216.1	24.7	1.08
	09/01/2010		10.06	90.41	-	-	90.41	194	3.6	2.8	5.3	205.7	101	1.61
	12/03/2010		12.20	88.27	-	-	88.27	405	7.6	6.9	13.7	433.2	93.3	0.72
	03/29/2011		9.52	90.95	-	-	90.95	119	0.86 J	ND<1	0.89 J	120.75	26.8	0.34
	06/16/2011		9.34	91.13	-	-	91.13	8	ND<1	ND<1	ND<1	8	3.4	0.90
	08/08/2011		9.93	90.54	-	-	90.54	81.1	2.3	0.85 J	4.2	88.45	45.1	0.93
	09/19/2011		8.49	91.98	-	-	91.98	43.2	1.5	0.94 J	4.6	50.24	25.8	0.81
	12/05/2011		9.40	91.07	-	-	91.07	5	ND<0.15	ND<0.21	0.51	5.51	5.4	-
	03/16/2012		10.57	89.90	-	-	89.90	31	ND<1	ND<1	ND<3	31	58	-
	06/08/2012		9.67	90.80	-	-	90.80	3.89	ND<1.00	ND<1.00	ND<3.00	3.89	8.11	-
	09/07/2012		9.83	90.64	-	-	90.64	ND<1.00	ND<1.00	ND<1.00	ND<3.00	ND<6.00	10.2	0.79
	12/18/2012		9.99	90.48	-	-	90.48	ND<1.00	ND<1.00	ND<1.00	ND<3.00	ND<6.00	11.3	0.47
MW-16	09/27/2006	100.42	11.90	88.52	-	-	88.52	1,600	159	1,220	2,520	5,499	2.3 J	-
	12/07/2006		18.97	81.45	10.25	8.72	87.99	-	-	-	-	-	-	-

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304 Columbia Street
Brooklyn, New York

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	GW Elevation (ft)	Depth to Product (ft)	Product Thickness (ft)	Prod Adj GW Elevation (ft)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	Total BTEX (µg/L)	MTBE (µg/L)	Dissolved Oxygen (mg/L)
NYSDEC TOGS 1.1.1 GWQS								**1**	**5**	**5**	**5**	**NS**	**10**	**NS**
MW-16 Con't	03/29/2007		11.36	89.06	-	-	89.06	2,320	87.1	430	1,110	3,947.1	ND<20	-
	06/13/2007		10.82	89.60	10.68	0.14	89.71	-	-	-	-	-	-	-
	09/19/2007		10.98	89.44	10.76	0.22	89.61	-	-	-	-	-	-	-
	12/11/2007		9.80	90.62	9.77	0.03	90.64	-	-	-	-	-	-	-
	03/13/2008		10.89	89.53	-	-	89.53	1,200	34.1	146	303	1,683.1	ND<10	-
	06/06/2008		10.06	90.36	-	-	90.36	1,350	49.6	225	394	2,018.6	16.1	-
	12/30/2008		9.66	90.76	-	-	90.76	958	59.8	393	662	2,072.8	7.7	-
	03/16/2009		10.70	89.72	-	-	89.72	1,320	44	141	222	1,727	3.7	-
	06/08/2009		9.64	90.78	-	-	90.78	2,830	158	667	1,010	4,665	ND<20	-
	07/20/2009		9.56	90.86	9.47	0.09	90.93	-	-	-	-	-	-	-
	09/24/2009		9.96	90.46	9.80	0.16	90.58	-	-	-	-	-	-	-
	12/03/2009		9.85	90.57	9.76	0.09	90.64	-	-	-	-	-	-	-
	03/03/2010		8.90	91.52	-	-	91.52	940	104	1,070	2,020	4,134	3.5 J	0.71
	06/07/2010		9.28	91.14	9.00	0.28	91.35	-	-	-	-	-	-	-
	09/01/2010		10.21	90.21	-	-	90.21	2,590	131	492	828	4,041	ND<20	-
	12/03/2010		9.67	90.75	9.66	0.01	90.76	-	-	-	-	-	-	-
	03/29/2011		8.45	91.97	-	-	91.97	312	26.3	284	319	941.3	ND<2.5	1.37
	06/16/2011		8.75	91.67	-	-	91.67	1,490	76.6	433	634	2,633.6	ND<10	1.89
	08/08/2011		9.44	90.98	9.41	0.03	91.00	-	-	-	-	-	-	-
	09/19/2011		7.89	92.53	-	-	92.53	68.3	4.1	59.9	77.1	209.4	ND<1	1.12
	12/05/2011		8.77	91.65	-	-	91.65	655	26	237	246	1,164	ND<0.37	-
	03/16/2012		9.96	90.46	-	-	90.46	1,400	59	157	342	1,958	ND<1	-
	06/08/2012		9.22	91.20	-	-	91.20	1,310	49.2	157	229	1,745.2	ND<1.00	-
	09/07/2012		9.36	91.06	-	-	91.06	2,060	81.1	303	380	2,824.1	ND<1.00	0.27
	12/18/2012		9.56	90.86	-	-	90.86	1,130	63.4	423	329	1,945.4	ND<1.00	0.52
MW-17	09/28/2006	100.05	10.59	89.46	-	-	89.46	4.8	64.2	378	1,420	1,867.0	202	-
	12/07/2006		10.90	89.15	-	-	89.15	19.9	97.6	335	1,090	1,542.5	29.8	-
	03/29/2007		10.18	89.87	-	-	89.87	15.4	145	432	1,300	1,892.4	19.4	-
	06/13/2007		9.55	90.50	-	-	90.50	11.1	76.9	228	695	1,011.0	21.3	-
	09/19/2007		9.71	90.34	-	-	90.34	11.4	69.3	252	665	997.7	13.6	-
	12/11/2007		10.17	89.88	-	-	89.88	4.8	32.9	148	386	571.7	4.3	-
	03/13/2008		9.17	90.88	-	-	90.88	20.4	143	695	2,160	3,018.4	8.2	-
	06/06/2008		9.03	91.02	-	-	91.02	2.6	14.2	63.7	178	258.5	3.4	-
	12/30/2008		8.51	91.54	-	-	91.54	18.1	60.3	421	418	917.4	2.3	-
	03/16/2009		9.42	90.63	-	-	90.63	3.8	20.4	134	184	342.2	2.1	-
	06/08/2009		8.19	91.86	-	-	91.86	244	80.1	773	439	1,536.1	7.7	-
	07/20/2009		8.23	91.82	-	-	91.82	27.4	145	726	1,100	1,998.4	1.7	1.88
	09/24/2009		8.93	91.12	-	-	91.12	10.6	47.7	324	369	751.3	ND<1	0.86
	12/03/2009		8.91	91.14	-	-	91.14	32.7	161	854	1,170	2,217.7	1.7 J	0.58
	03/03/2010		8.02	92.03	-	-	92.03	7.5	37.7	225	289	559.2	1.4 J	0.91
	06/07/2010		8.33	91.72	-	-	91.72	7.6	35	259	274	575.6	0.83 J	0.62

Table 1

HISTORICAL GROUNDWATER MONITORING DATA

Former Mobil Station #17-EMW
304 Columbia Street
Brooklyn, New York

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	GW Elevation (ft)	Depth to Product (ft)	Product Thickness (ft)	Prod Adj GW Elevation (ft)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	Total BTEX (µg/L)	MTBE (µg/L)	Dissolved Oxygen (mg/L)
NYSDEC TOGS 1.1.1 GWQS								**1**	**5**	**5**	**5**	**NS**	**10**	**NS**
MW-17 Con't	09/01/2010		9.01	91.04	-	-	91.04	16.3	91.3	716	675	1,498.6	ND<2	1.04
	12/03/2010		8.80	91.25	-	-	91.25	19.8	103	757	881	1,760.8	ND<1	0.97
	03/29/2011		7.83	92.22	-	-	92.22	6.3	14.7	166	90.9	277.9	1.2 J	-
	06/16/2011		7.96	92.09	7.90	0.06	92.14	-	-	-	-	-	-	-
	08/08/2011		8.62	91.43	8.58	0.04	91.46	-	-	-	-	-	-	-
	09/19/2011		7.12	92.93	7.11	0.01	92.94	-	-	-	-	-	-	-
	12/05/2011		7.86	92.19	-	-	92.19	9.3	43	230	209	491.3	1	-
	03/16/2012		9.40	90.65	9.33	0.07	90.70	-	-	-	-	-	-	-
	06/08/2012		8.49	91.56	-	-	91.56	23.7	78.4	402	239	743.1	ND<1.00	-
	09/07/2012		8.49	91.56	-	-	91.56	24.6	89.0	279	304	696.6	ND<1.00	0.99
	12/18/2012		8.62	91.43	-	-	91.43	18.8	72.5	275	332	698.3	ND<1.00	0.10
MW-18	09/28/2006	101.41	12.54	88.87	-	-	88.87	1,470	137	499	1,160	3,266	5.8	-
	12/07/2006		12.76	88.65	-	-	88.65	2,490	210	518	1,820	5,038	ND<10	-
	03/29/2007		12.33	89.08	-	-	89.08	2,190	170	510	1,100	3,970	ND<20	-
	06/13/2007		11.10	90.31	-	-	90.31	2,400	296	1,040	3,360	7,096	ND<10	-
	09/19/2007		12.02	89.39	-	-	89.39	1,820	114	397	951	3,282	ND<2.5	-
	12/11/2007		13.40	88.01	-	-	88.01	1,670	63.6	241	439	2,413.6	ND<5	-
	03/13/2008		13.12	88.29	-	-	88.29	1,770	94.2	399	649	2,912.2	ND<10	-
	06/06/2008		13.24	88.17	-	-	88.17	2,410	156	746	1,220	4,532	ND<10	-
	12/30/2008		12.58	88.83	-	-	88.83	1,970	80.4	319	620	2,989.4	ND<5	-
	03/16/2009		12.85	88.56	-	-	88.56	1,850	79.7	254	417	2,600.7	ND<5	-
	06/08/2009		12.51	88.90	-	-	88.90	1,680	79.8	302	480	2,541.8	ND<10	-
	07/20/2009		12.65	88.76	-	-	88.76	1,570	83.7	301	537	2,491.7	ND<10	1.62
	09/24/2009		12.96	88.45	-	-	88.45	1,010	48.8	131	363	1,552.8	ND<1	0.63
	12/03/2009		12.76	88.65	-	-	88.65	1,380	57.2	355	720	2,512.2	ND<5	0.50
	03/03/2010		11.90	89.51	-	-	89.51	1,790	80.6	400	548	2,818.6	ND<10	0.49
	06/07/2010		12.47	88.94	-	-	88.94	1,630	103	502	548	2,783	ND<5	0.51
	09/01/2010		12.83	88.58	-	-	88.58	2,580	102	347	637	3,666	ND<20	0.40
	12/03/2010		12.87	88.54	-	-	88.54	1,020	39.4	119	175	1,353.4	ND<10	0.39
	03/29/2011		10.46	90.95	-	-	90.95	746	34.7	137	163	1,080.7	ND<5	1.39
	06/16/2011		11.00	90.41	-	-	90.41	2,180	123	548	738	3,589	ND<10	1.47
	08/08/2011		10.71	90.70	-	-	90.70	2,440	104	261	374	3,179	ND<10	7.53
	09/19/2011		10.34	91.07	-	-	91.07	1,200	64.8	318	425	2,007.8	ND<5	1.02
	12/05/2011		9.9	91.51	-	-	91.51	1,620	65	287	345	2,317	ND<0.92	-
	03/16/2012		10.66	90.75	-	-	90.75	1,740	101	1,310	1,510	4,661	ND<1	-
	06/08/2012		9.83	91.58	-	-	91.58	153	11.9	109	137	410.9	ND<1.00	-
	09/07/2012		10.05	91.36	-	-	91.36	1,070	53.8	451	337	1,911.8	ND<1.00	1.08
	12/18/2012		10.18	91.23	-	-	91.23	944	52.9	160	315	1,471.9	ND<1.00	0.12

Table 1

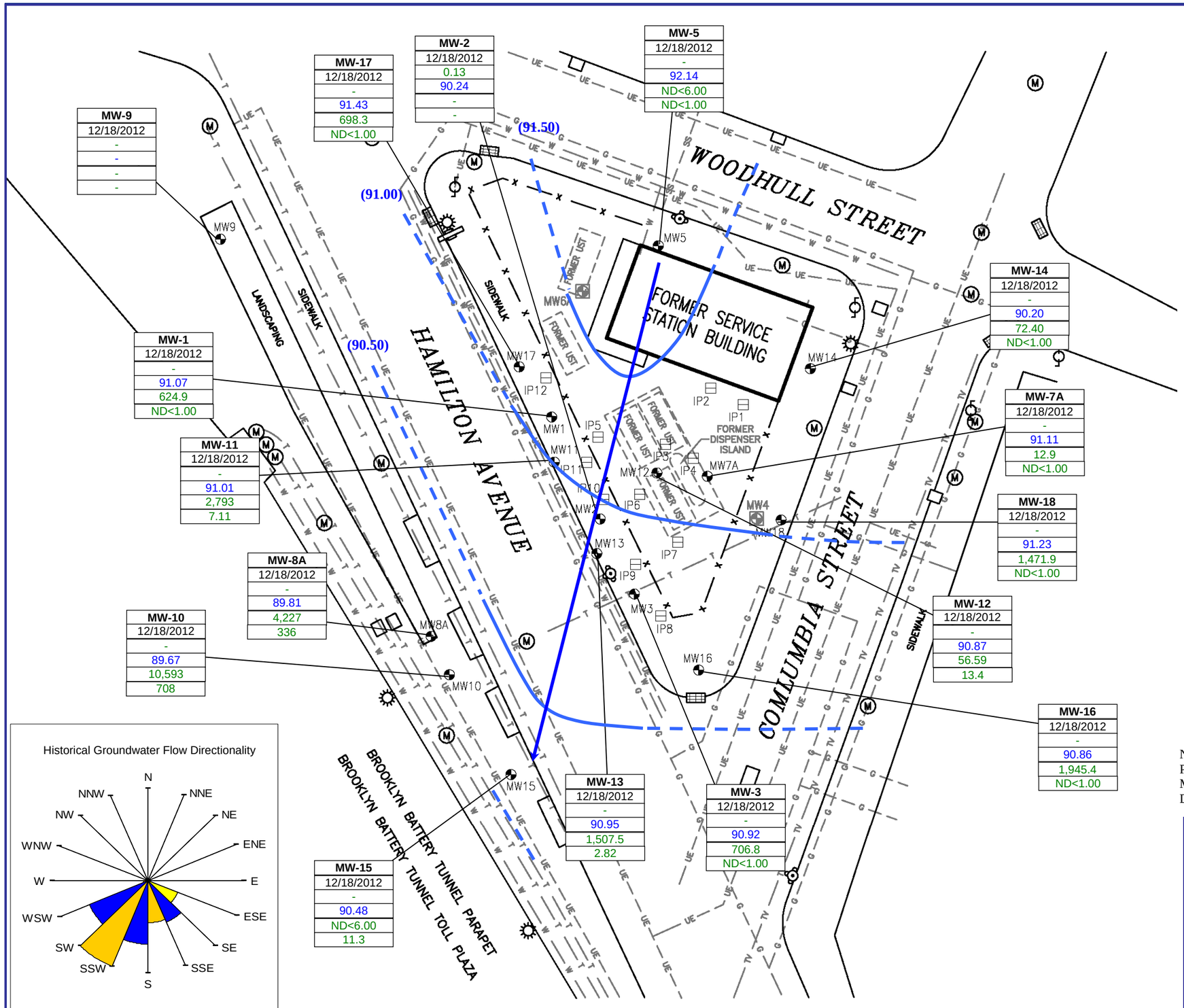
HISTORICAL GROUNDWATER MONITORING DATA

Former Mobil Station #17-EMW
304 Columbia Street
Brooklyn, New York

Notes:

NYSDEC TOGS 1.1.1 GWQS	= TOGS (1.1.1) Ambient Water Quality Standards Guidance Values and Groundwater Effluent Limitations, amended April 2000.
-	= Not analyzed or measured
BRL	= Below laboratory reporting limit
BTEX	= Benzene, toluene, ethylbenzene and total xylenes
CNL	= Could not locate
ft	= Feet
GWQS	= Ground Water Quality Standard
J	= Estimated value
mg/L	= Milligrams/liter
MTBE	= Methyl tertiary-butyl ether
ND<#	= Not detected. Where an analyte is not detected, a reporting limit is given.
NS	= No standard
NSD	= No survey data
Shaded cells	= Above regulatory limits
ug/L	= Micrograms/liter
VOCs	= Volatile organic compounds

FIGURE



LEGEND

- FENCE
- CATCH BASIN
- UTILITY MANHOLE
- UTILITY POLE
- LIGHT POLE
- FIRE HYDRANT
- MONITORING WELL
- ABANDONED/DESTROYED MONITORING WELL
- INJECTION POINT
- SS — UNDERGROUND SANITARY SEWER LINE
- TV — UNDERGROUND TELEVISION LINE
- T — UNDERGROUND TELEPHONE LINE
- UE — UNDERGROUND ELECTRIC LINE
- W — UNDERGROUND WATER LINE
- G — UNDERGROUND GAS LINE

MW-3	WELL IDENTIFICATION
12/18/2012	SAMPLE DATE
-	GROUNDWATER ELEVATION (feet)
90.92	LPH THICKNESS
706.8	TOTAL BTEX CONCENTRATION (µg/L)
ND<1.00	MTBE CONCENTRATION (µg/L)

LPH	LIQUID PHASE HYDROCARBONS
µg/L	MICROGRAMS PER LITER
BTEX	BENZENE, TOLUENE, ETHYLBENZENE AND TOTAL XYLENES
MTBE	METHYL *tert-* BUTYL ETHER
ND <#	WHERE AN ANALYTE IS NOT DETECTED. A METHOD DETECTION LIMIT IS GIVEN.
NS	NOT SAMPLED
ND	LPH NOT PRESENT
(91.00)	GROUNDWATER ELEVATION
	GROUNDWATER CONTOUR LINE (ft)
	INFERRED GROUNDWATER CONTOUR
	GROUNDWATER FLOW DIRECTION

NOTES: GROUNDWATER ELEVATIONS FOR WELLS WITH PRODUCT ARE ADJUSTED USING A SPECIFIC GRAVITY OF 0.75. MONITORING WELL MW-14 WAS NOT USED TO DETERMINE FLOW DIRECTION. MONITORING WELL MW-9 COULD NOT BE LOCATED.

DRAFTED BY: MW (NY-E)	**GROUNDWATER MONITORING MAP December 18, 2012**	
CHECKED BY: JF (NY-E)	**Former Mobil Service Station 17-EMW (17-EMW) 304 Columbia Street Brooklyn, New York**	
REVIEWED BY:	**Groundwater & Environmental Services, Inc.** 89 CABOT COURT, SUITE A, HAUPPAUGE, NEW YORK 11788	
NORTH	SCALE IN FEET 0 30	DATE **01-02-2013** / FIGURE **1**

ATTACHMENT A

LIST OF ACRONYMS

AS :	Air Sparge
BTEX :	Benzene, Toluene, Ethylbenzene and Total Xylenes
Cat-Ox :	Catalytic Oxidizer
COC :	Chemical of Concern
CP-51 SCG :	Soil quality standards as defined by the NYSDEC *Commissioner Policy 51/ Soil Cleanup Guidance,* amended October 21, 2010 (updated soil cleanup levels to TAGM 4046)
DO :	Dissolved Oxygen
DTW :	Depth to Water
EPA :	Environmental Protection Agency
ESA :	Environmental Site Assessment
eV :	Electron Volt
F&T :	Fate and Transport
ft bgs :	Feet Below Ground Surface
GES :	Groundwater & Environmental Services, Inc.
GPR :	Ground Penetrating Radar
HIT :	High Intensity Targeted
HVE :	High Vacuum Extraction
IP :	Injection Point
IRM :	Interim Remedial Measure
ISCO :	In-situ Chemical Oxidation
lbs/hr	Pounds Per Hour
LNAPL :	Light Non-Aqueous Phase Liquids
LPH :	Liquid Phase Hydrocarbons
mV :	Millivolts
MNA :	Monitored Natural Attenuation
MPE :	Multi-Phase Extraction
MTBE :	Methyl Tertiary Butyl Ether
MW :	Monitoring Well
ND :	Not Detected
NYSDEC :	New York State Department of Environmental Conservation
NYCDEP :	New York City Department of Environmental Protection
O&M :	Operations and Maintenance
ORP :	Oxidation-Reduction Potential
PID :	Photo-Ionization Detector
ppm_{v} :	Parts Per Million by Volume
P&T :	Pump and Treat
RAP	Remedial Action Plan
RSCOs :	Recommended Soil Cleanup Objectives as defined by TAGM 4046
SRS :	Sensitive Receptor Survey
STARS :	*Spills Technology and Remediation Series #1,* amended August 1992
STIP :	Stipulation Agreement.
SVE :	Soil Vapor Extraction
SVOCs :	Semi Volatile Organic Compounds
TAGM :	*Technical and Administrative Guidance Memorandum (#4046): Determination of Soil Cleanup Objectives,* amended January 24, 1994
TOC :	Top of Casing

LIST OF ACRONYMS (CONTINUED)

µg/kg :	Micrograms per kilogram
µg/L :	Micrograms per liter
UST :	Underground Storage Tank
VGAC :	Vapor-Phase Granulated Activated Carbon
VEGE :	Vacuum Enhanced Groundwater Extraction
VOCs :	Volatile Organic Compounds
WQS :	Groundwater quality standards as defined by the June 1998 *Technical and Operation Guidance Series* 1.1.1, *Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations* and the April 2000 *Addendum*.

ATTACHMENT B

SITE HISTORY

Former Mobil Station #17-EMW
304 Columbia Street
Brooklyn, New York

The site is currently an automobile repair facility. There are currently three (3) closed New York State Department of Environmental Conservation (NYSDEC) spills associated with the site:

- NYSDEC Spill #93-12498 was opened on January 24, 1994 in response to a tank test failure. The spill was closed on May 14, 2003.

- NYSDEC Spill #05-02047 was opened on May 19, 2005 in response to a used oil spill. The spill was closed on April 26, 2010.

- NYSDEC Spill #06-10200 was opened on December 7, 2006 in response to an unknown spill event. The spill was closed on April 26, 2010.

There is one (1) active NYSDEC spill associated with the site:

- NYSDEC Spill #89-04339 was opened on August 1, 1989 during UST removal activities. The spill remains open.

The active spill, along with historical site investigation and remediation activities conducted at the site has been summarized below.

- July 1989 –A tank removal and replacement was conducted on behalf of Mobil Oil Corporation. 15 underground storage tanks (USTs) were removed from the site and four new USTs were installed. Petroleum-impacted soil and liquid phase hydrocarbons (LPH) were discovered during tank removal activities. Approximately 650 tons of petroleum-impacted soil was exvacated and disposed of at a state certified landfill.

- July 25, 1989 – A site assessment was conducted at the site. Five (5) monitoring wells were installed (W-1 through W-5). Liquid phase hydrocarbons were present in W-2 and W-3.

- August 1, 1989 – Spill number 89-04339 was assigned to the site by the New York State Department of Environmental Conservation.

- December 1996 – A subsurface investigation prior to site divestment, which included the installation of three (3) Geoprobe soil borings.

- April 22 through 25, 1997 – Site divestment activities included the removal of one (1) 1,000 gallon waste oil UST, one (1) 4,000 gallon, abandoned, single-walled steel gasoline tank, two (2) 4,000 gallon, double-walled gasoline fiberglass tanks, one (1) 4,000 gallon, double-walled fiberglass, abandoned gasoline tank, one(1) pump island, all associated piping and three (3) hydraulic lifts. Approximately 235.06 tons of petroleum-contaminated soil was excavated and disposed of at a state certified landfill. Seven (7) on-site monitoring wells were destroyed during tank closure activities and site renovations.

- March 25 and April 6, 1998 – A subsurface investigation was conducted which included the installation of four (4) groundwater monitoring wells were installed (MW-1 through MW-3 and MW-5).

- October 11, 1999 – An Environmental Site Assessment was conducted and included the installation of five (5) soil borings to varying depths from 8 to 34 feet below ground surface (B-1 through B-5).

- May 10 and 15, 2002 – A site investigation work plan was submitted for proposed delineation and included the installation of ten on-site soil borings and four off-site soil borings (along north side of Hamilton Avenue) using a Geoprobe to 16 feet below ground surface with groundwater sampling.

- June 24, 2002 – NYSDEC approved the site investigation plans and proposed schedules submitted on May 10 and 15, 2002. The NYSDEC requested four additional borings along Columbia Street and two additional borings along Woodhull Street. The NYSDEC requested a sensitive receptor survey (SRS) and UST investigation of the former tank field to evaluate existence and/or proper abandonment of 1,000-gallon USTs from 1997.

- July 22 through 26, 2002 – A subsurface investigation was conducted and included six (6) on-site soil borings (SB-1, 2, 4, 7, 8, and 9) and ten (10) off-site soil borings (SB-11 through SB-20).

- December 2, 2002 – A Subsurface Investigation Report (SIR) was submitted to the NYSDEC for fieldwork completed in July 2002. Recommendations were made for additional off-site borings/monitoring wells along Hamilton Avenue.

- February 10, 2003 – Site visit between the NYSDEC and ExxonMobil to discuss proposed monitoring well locations.

- February 21, 2003 – A revised proposed monitoring well/soil boring location map in regards to site discussion on February 10, 2003 to the NYSDEC via email.

- March 20, 2003 – Letter received from NYSDEC to ExxonMobil approving the on- and off-site borings and monitoring wells submitted on a revised map dated February 21, 2003.

- May 12, 2003 – A subsurface investigation was conducted which included the installation of five (5) monitoring wells.

- September 16, 2003 – A Corrective Action Plan (CAP) was submitted which included a proposed pilot test and future remedial plan.

- September 25, 2003 – The NYSDEC requested the CAP be expanded to include details on the pilot test and possible installation of additional wells.

- November 18, 2003 – Letter from the NYSDEC approving the amended CAP.

- February 9, 2004 – A subsurface investigation was conducted which included the installation of three (3) soil borings which were completed as monitoring wells (MW-11 through MW-13).

- February 27, 2004 – A high vacuum dual-phase extraction (HVDPE)/enhanced fluid recovery (EFR) event was conducted. During the event, preliminary data was collected to conduct an HVDPE/EFR pilot test.

- November 4, 2004 – A supplemental subsurface investigationwas conducted in which one (1) soil boring was installed and completed as a monitoring well (MW-14).

- January 2005 through March 2006 – Enhanced fluid recovery events (EFR) were conducted on a monthly basis. A passive bailer was installed in monitoring well (MW-14) on September 23, 2005. Monitoring wells MW-6, MW-7, and MW-8 were destroyed during construction activities and MW-6A was destroyed in March 2005 during construction for a billboard sign.

- June 2008 – Subsurface investigation was conducted to further evaluate current soil and groundwater hydrocarbon concentrations for additional on- and off-site delineation.

- June 15 through 16, 2009 – Chemical oxidation injections were performed where approximately 1,800 gallons of sodium persulfate and 2,700 gallons of ISOTEC's patented catalyst were injected into twelve injection points located on site.

- June 22 and 23, 2010 - Approximately 1,680 gallons of a diluted Enviroclean surfactant solution was injected at MW-1, MW-2, MW-3, MW-13, and MW-16 in order to address LPH observed at the site prior to continuation of chemical injections. On June 24, 25, and 28, 2010, approximately 710 gallons of fluids were recovered during EFR events from the five injection wells.

- July 26 through 28 and August 2 through 4, 2010 – Surfactant injection and recovery events were performed. A diluted Enviroclean surfactant solution was injected at MW-1 through MW-3, MW-13, and MW-16. Approximately 836 gallons of fluids were recovered during EFR events from the five injection wells.

- December 6 through 9, 2010 –An In-Situ Chemical Oxidation (ISCO) pilot test was conducted targeting off-siteareas within the eastern sidewalk along Hamilton Avenue and onsite areas within the former gasoline UST area. Twelve injection points were installed. A total of 7,200 gallons of sodium persulfate (at approximately 10.0% concentration) activated with chelated iron catalyst (ASP), including 2,400 gallons of catalystand 4,800 gallons of oxidizer, were injected.

- August 15 and August 18, 2011 – An ISCO event was conducted targeting off-site areas within the eastern sidewalk along Hamilton Avenue and on-site areas within the former gasoline underground storage tank (UST) area. A total of 7,200 gallons of Activated Sodium Persulfate (ASP), including 2,400 gallons of catalyst and 4,800 gallons of oxidizer, were injected.

- July 9 through 11, 2012- A Limited Off-Site Investigation was conducted within the eastern sidewalk along Hamilton Avenue to delineate soil impacts. Vertical Delineation: Soil analytical data results reported concentrations of STARS list compounds above CP-51 soil cleanup levels ranging from 8 to 20 feet below ground surface. Groundwater was encountered between 7 and 10 feet below ground surface within the recently advanced boring locations. This is evidence of a saturated smear zone that exists below the eastern sidewalk of Hamilton Avenue. Horizontal Delineation: Soil analytical data results reported concentrations of STARS list compounds above CP-51 soil cleanup levels within soil borings SB103 through SB107. Soil borings could not be completed south of SB107 due to underground utility obstructions. MW-17, located north of SB103, has contained measurable LPH within the last year. Horizontal delineation of soil impacts extend from SB101 south to MW-16 where increases of BTEX and MTBE have been reported in groundwater within the last year.

- December 18, 2012 – A Site Conceptual Model (SCM) and Remedial Alternatives Analysis (RAA) Report was submitted to NYSDEC.

ATTACHMENT C

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: 490-15273-1
TestAmerica SDG: 304 Columbia St., Brooklyn, NY
Client Project/Site: 17-EMW

For:
Groundwater & Environmental Services Inc
89A Cabot Court
Hauppauge, New York 11788

Attn: Jessica Ferngren

Authorized for release by:
12/28/2012 2:23:34 PM

John Smeathers
Project Manager I
john.smeathers@testamericainc.com

Table of Contents

Sample Summary

Client: Groundwater & Environmental Services Inc
Project/Site: 17-EMW

TestAmerica Job ID: 490-15273-1
SDG: 304 Columbia St., Brooklyn, NY

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
490-15273-1	MW-1	Ground Water	12/18/12 13:50	12/20/12 08:30
490-15273-2	MW-3	Ground Water	12/18/12 08:40	12/20/12 08:30
490-15273-3	MW-5	Ground Water	12/18/12 10:10	12/20/12 08:30
490-15273-4	MW-7A	Ground Water	12/18/12 15:10	12/20/12 08:30
490-15273-5	MW-8A	Ground Water	12/18/12 12:10	12/20/12 08:30
490-15273-6	MW-10	Ground Water	12/18/12 11:40	12/20/12 08:30
490-15273-7	MW-11	Ground Water	12/18/12 12:40	12/20/12 08:30
490-15273-8	MW-12	Ground Water	12/18/12 14:40	12/20/12 08:30
490-15273-9	MW-13	Ground Water	12/18/12 10:40	12/20/12 08:30
490-15273-10	MW-14	Ground Water	12/18/12 09:40	12/20/12 08:30
490-15273-11	MW-15	Ground Water	12/18/12 11:10	12/20/12 08:30
490-15273-12	MW-16	Ground Water	12/18/12 08:10	12/20/12 08:30
490-15273-13	MW-17	Ground Water	12/18/12 13:10	12/20/12 08:30
490-15273-14	MW-18	Ground Water	12/18/12 09:10	12/20/12 08:30

Job ID: 490-15273-1

Laboratory: TestAmerica Nashville

Narrative

Job Narrative
490-15273-1

Comments
No additional comments.

Receipt
The samples were received on 12/20/2012 8:30 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.9º C.

Except:

The Chain of Custody was received without analysis selected. Client confirmed analysis as 8260 BTEX/MTBE.

GC/MS VOA
Method(s) 8260B: Surrogate recovery for the following sample(s) was outside control limits: MW-17 (490-15273-13). Evidence of matrix interferences is not obvious. Sample to be repeated at a dilution.

Method(s) 8260B: The following sample(s) submitted for volatiles analysis was received with insufficient preservation (pH >2): MW-1 (490-15273-1), MW-10 (490-15273-6), MW-11 (490-15273-7), MW-10 (490-15273-6) .

Method(s) 8260B: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with batch 46553.

No other analytical or quality issues were noted.

VOA Prep
No analytical or quality issues were noted.

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
X	Surrogate is outside control limits

Glossary

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

Client: Groundwater & Environmental Services Inc
Project/Site: 17-EMW

TestAmerica Job ID: 490-15273-1
SDG: 304 Columbia St., Brooklyn, NY

Client Sample ID: MW-1
Date Collected: 12/18/12 13:50
Date Received: 12/20/12 08:30

Lab Sample ID: 490-15273-1
Matrix: Ground Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**33.5**		1.00		ug/L			12/22/12 03:07	1
Toluene	**25.4**		1.00		ug/L			12/22/12 03:07	1
Ethylbenzene	**363**		10.0		ug/L			12/26/12 15:59	10
Xylenes, Total	**203**		3.00		ug/L			12/22/12 03:07	1
Methyl tert-butyl ether	ND		1.00		ug/L			12/22/12 03:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*97*		*70 - 130*		*12/22/12 03:07*	*1*
Dibromofluoromethane (Surr)	*95*		*70 - 130*		*12/26/12 15:59*	*10*
Toluene-d8 (Surr)	*117*		*70 - 130*		*12/22/12 03:07*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*		*12/26/12 15:59*	*10*
1,2-Dichloroethane-d4 (Surr)	*95*		*70 - 130*		*12/22/12 03:07*	*1*
1,2-Dichloroethane-d4 (Surr)	*93*		*70 - 130*		*12/26/12 15:59*	*10*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*		*12/22/12 03:07*	*1*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*		*12/26/12 15:59*	*10*

Client: Groundwater & Environmental Services Inc
Project/Site: 17-EMW

TestAmerica Job ID: 490-15273-1
SDG: 304 Columbia St., Brooklyn, NY

Client Sample ID: MW-3
Date Collected: 12/18/12 08:40
Date Received: 12/20/12 08:30

Lab Sample ID: 490-15273-2
Matrix: Ground Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**19.2**		1.00		ug/L			12/22/12 03:35	1
Toluene	**31.6**		1.00		ug/L			12/22/12 03:35	1
Ethylbenzene	**378**		10.0		ug/L			12/26/12 16:27	10
Xylenes, Total	**278**		3.00		ug/L			12/22/12 03:35	1
Methyl tert-butyl ether	ND		1.00		ug/L			12/22/12 03:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*91*		*70 - 130*		*12/22/12 03:35*	*1*
Dibromofluoromethane (Surr)	*94*		*70 - 130*		*12/26/12 16:27*	*10*
Toluene-d8 (Surr)	*106*		*70 - 130*		*12/22/12 03:35*	*1*
Toluene-d8 (Surr)	*99*		*70 - 130*		*12/26/12 16:27*	*10*
1,2-Dichloroethane-d4 (Surr)	*91*		*70 - 130*		*12/22/12 03:35*	*1*
1,2-Dichloroethane-d4 (Surr)	*94*		*70 - 130*		*12/26/12 16:27*	*10*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*		*12/22/12 03:35*	*1*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*		*12/26/12 16:27*	*10*

Client: Groundwater & Environmental Services Inc
Project/Site: 17-EMW

TestAmerica Job ID: 490-15273-1
SDG: 304 Columbia St., Brooklyn, NY

Client Sample ID: MW-5
Date Collected: 12/18/12 10:10
Date Received: 12/20/12 08:30

Lab Sample ID: 490-15273-3
Matrix: Ground 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			12/22/12 04:03	1
Toluene	ND		1.00		ug/L			12/22/12 04:03	1
Ethylbenzene	ND		1.00		ug/L			12/22/12 04:03	1
Xylenes, Total	ND		3.00		ug/L			12/22/12 04:03	1
Methyl tert-butyl ether	ND		1.00		ug/L			12/22/12 04:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*90*		*70 - 130*		*12/22/12 04:03*	*1*
Toluene-d8 (Surr)	*96*		*70 - 130*		*12/22/12 04:03*	*1*
1,2-Dichloroethane-d4 (Surr)	*90*		*70 - 130*		*12/22/12 04:03*	*1*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*		*12/22/12 04:03*	*1*

Client: Groundwater & Environmental Services Inc
Project/Site: 17-EMW

TestAmerica Job ID: 490-15273-1
SDG: 304 Columbia St., Brooklyn, NY

Client Sample ID: MW-7A
Date Collected: 12/18/12 15:10
Date Received: 12/20/12 08:30

Lab Sample ID: 490-15273-4
Matrix: Ground Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**12.9**		1.00		ug/L			12/22/12 04:31	1
Toluene	ND		1.00		ug/L			12/22/12 04:31	1
Ethylbenzene	ND		1.00		ug/L			12/22/12 04:31	1
Xylenes, Total	ND		3.00		ug/L			12/22/12 04:31	1
Methyl tert-butyl ether	ND		1.00		ug/L			12/22/12 04:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*92*		*70 - 130*		*12/22/12 04:31*	*1*
Toluene-d8 (Surr)	*97*		*70 - 130*		*12/22/12 04:31*	*1*
1,2-Dichloroethane-d4 (Surr)	*92*		*70 - 130*		*12/22/12 04:31*	*1*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*		*12/22/12 04:31*	*1*

Client: Groundwater & Environmental Services Inc
Project/Site: 17-EMW

TestAmerica Job ID: 490-15273-1
SDG: 304 Columbia St., Brooklyn, NY

Client Sample ID: MW-8A
Date Collected: 12/18/12 12:10
Date Received: 12/20/12 08:30

Lab Sample ID: 490-15273-5
Matrix: Ground Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1300		10.0		ug/L			12/26/12 18:49	10
Toluene	231		10.0		ug/L			12/26/12 18:49	10
Ethylbenzene	496		10.0		ug/L			12/26/12 18:49	10
Xylenes, Total	2200		30.0		ug/L			12/26/12 18:49	10
Methyl tert-butyl ether	336		10.0		ug/L			12/26/12 18:49	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*94*		*70 - 130*		*12/26/12 18:49*	*10*
Toluene-d8 (Surr)	*108*		*70 - 130*		*12/26/12 18:49*	*10*
1,2-Dichloroethane-d4 (Surr)	*92*		*70 - 130*		*12/26/12 18:49*	*10*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*		*12/26/12 18:49*	*10*

Client: Groundwater & Environmental Services Inc
Project/Site: 17-EMW

TestAmerica Job ID: 490-15273-1
SDG: 304 Columbia St., Brooklyn, NY

Client Sample ID: MW-10
Date Collected: 12/18/12 11:40
Date Received: 12/20/12 08:30

Lab Sample ID: 490-15273-6
Matrix: Ground Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	5460		100		ug/L			12/26/12 20:14	100
Toluene	623		10.0		ug/L			12/26/12 19:45	10
Ethylbenzene	1170		10.0		ug/L			12/26/12 19:45	10
Xylenes, Total	3340		30.0		ug/L			12/26/12 19:45	10
Methyl tert-butyl ether	708		10.0		ug/L			12/26/12 19:45	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*92*		*70 - 130*		*12/26/12 19:45*	*10*
Dibromofluoromethane (Surr)	*95*		*70 - 130*		*12/26/12 20:14*	*100*
Toluene-d8 (Surr)	*128*		*70 - 130*		*12/26/12 19:45*	*10*
Toluene-d8 (Surr)	*98*		*70 - 130*		*12/26/12 20:14*	*100*
1,2-Dichloroethane-d4 (Surr)	*95*		*70 - 130*		*12/26/12 19:45*	*10*
1,2-Dichloroethane-d4 (Surr)	*91*		*70 - 130*		*12/26/12 20:14*	*100*
4-Bromofluorobenzene (Surr)	*113*		*70 - 130*		*12/26/12 19:45*	*10*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*		*12/26/12 20:14*	*100*

Client Sample ID: MW-11
Date Collected: 12/18/12 12:40
Date Received: 12/20/12 08:30

Lab Sample ID: 490-15273-7
Matrix: Ground Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	587		10.0		ug/L			12/26/12 15:31	10
Toluene	184		1.00		ug/L			12/26/12 15:03	1
Ethylbenzene	702		10.0		ug/L			12/26/12 15:31	10
Xylenes, Total	1320		30.0		ug/L			12/26/12 15:31	10
Methyl tert-butyl ether	7.11		1.00		ug/L			12/26/12 15:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*91*		*70 - 130*		*12/22/12 05:56*	*1*
Dibromofluoromethane (Surr)	*95*		*70 - 130*		*12/26/12 15:03*	*1*
Dibromofluoromethane (Surr)	*96*		*70 - 130*		*12/26/12 15:31*	*10*
Toluene-d8 (Surr)	*114*		*70 - 130*		*12/22/12 05:56*	*1*
Toluene-d8 (Surr)	*113*		*70 - 130*		*12/26/12 15:03*	*1*
Toluene-d8 (Surr)	*99*		*70 - 130*		*12/26/12 15:31*	*10*
1,2-Dichloroethane-d4 (Surr)	*97*		*70 - 130*		*12/22/12 05:56*	*1*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 130*		*12/26/12 15:03*	*1*
1,2-Dichloroethane-d4 (Surr)	*95*		*70 - 130*		*12/26/12 15:31*	*10*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*		*12/22/12 05:56*	*1*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*		*12/26/12 15:03*	*1*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*		*12/26/12 15:31*	*10*

Client Sample ID: MW-12
Date Collected: 12/18/12 14:40
Date Received: 12/20/12 08:30

Lab Sample ID: 490-15273-8
Matrix: Ground Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**50.5**		1.00		ug/L			12/26/12 14:34	1
Toluene	**1.02**		1.00		ug/L			12/26/12 14:34	1
Ethylbenzene	**5.07**		1.00		ug/L			12/26/12 14:34	1
Xylenes, Total	ND		3.00		ug/L			12/26/12 14:34	1
Methyl tert-butyl ether	**13.4**		1.00		ug/L			12/26/12 14:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*92*		*70 - 130*		*12/22/12 06:24*	*1*
Dibromofluoromethane (Surr)	*96*		*70 - 130*		*12/26/12 14:34*	*1*
Toluene-d8 (Surr)	*105*		*70 - 130*		*12/22/12 06:24*	*1*
Toluene-d8 (Surr)	*107*		*70 - 130*		*12/26/12 14:34*	*1*
1,2-Dichloroethane-d4 (Surr)	*91*		*70 - 130*		*12/22/12 06:24*	*1*
1,2-Dichloroethane-d4 (Surr)	*96*		*70 - 130*		*12/26/12 14:34*	*1*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*		*12/22/12 06:24*	*1*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*		*12/26/12 14:34*	*1*

Client: Groundwater & Environmental Services Inc
Project/Site: 17-EMW

TestAmerica Job ID: 490-15273-1
SDG: 304 Columbia St., Brooklyn, NY

Client Sample ID: MW-13
Date Collected: 12/18/12 10:40
Date Received: 12/20/12 08:30

Lab Sample ID: 490-15273-9
Matrix: Ground Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	308		10.0		ug/L			12/26/12 16:56	10
Toluene	84.5		1.00		ug/L			12/22/12 06:52	1
Ethylbenzene	663		10.0		ug/L			12/26/12 16:56	10
Xylenes, Total	452		3.00		ug/L			12/22/12 06:52	1
Methyl tert-butyl ether	2.82		1.00		ug/L			12/22/12 06:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*93*		*70 - 130*		*12/22/12 06:52*	*1*
Dibromofluoromethane (Surr)	*96*		*70 - 130*		*12/26/12 16:56*	*10*
Toluene-d8 (Surr)	*110*		*70 - 130*		*12/22/12 06:52*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*		*12/26/12 16:56*	*10*
1,2-Dichloroethane-d4 (Surr)	*83*		*70 - 130*		*12/22/12 06:52*	*1*
1,2-Dichloroethane-d4 (Surr)	*91*		*70 - 130*		*12/26/12 16:56*	*10*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*		*12/22/12 06:52*	*1*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*		*12/26/12 16:56*	*10*

Client: Groundwater & Environmental Services Inc
Project/Site: 17-EMW

TestAmerica Job ID: 490-15273-1
SDG: 304 Columbia St., Brooklyn, NY

Client Sample ID: MW-14
Date Collected: 12/18/12 09:40
Date Received: 12/20/12 08:30

Lab Sample ID: 490-15273-10
Matrix: Ground Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**70.8**		1.00		ug/L			12/26/12 14:06	1
Toluene	**1.60**		1.00		ug/L			12/26/12 14:06	1
Ethylbenzene	ND		1.00		ug/L			12/26/12 14:06	1
Xylenes, Total	ND		3.00		ug/L			12/26/12 14:06	1
Methyl tert-butyl ether	ND		1.00		ug/L			12/22/12 07:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*95*		*70 - 130*		*12/22/12 07:20*	*1*
Dibromofluoromethane (Surr)	*96*		*70 - 130*		*12/26/12 14:06*	*1*
Toluene-d8 (Surr)	*103*		*70 - 130*		*12/22/12 07:20*	*1*
Toluene-d8 (Surr)	*104*		*70 - 130*		*12/26/12 14:06*	*1*
1,2-Dichloroethane-d4 (Surr)	*87*		*70 - 130*		*12/22/12 07:20*	*1*
1,2-Dichloroethane-d4 (Surr)	*93*		*70 - 130*		*12/26/12 14:06*	*1*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*		*12/22/12 07:20*	*1*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*		*12/26/12 14:06*	*1*

Client: Groundwater & Environmental Services Inc
Project/Site: 17-EMW

TestAmerica Job ID: 490-15273-1
SDG: 304 Columbia St., Brooklyn, NY

Client Sample ID: MW-15
Date Collected: 12/18/12 11:10
Date Received: 12/20/12 08:30

Lab Sample ID: 490-15273-11
Matrix: Ground 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			12/22/12 02:39	1
Toluene	ND		1.00		ug/L			12/22/12 02:39	1
Ethylbenzene	ND		1.00		ug/L			12/22/12 02:39	1
Xylenes, Total	ND		3.00		ug/L			12/22/12 02:39	1
Methyl tert-butyl ether	**11.3**		1.00		ug/L			12/22/12 02:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*94*		*70 - 130*		*12/22/12 02:39*	*1*
Toluene-d8 (Surr)	*95*		*70 - 130*		*12/22/12 02:39*	*1*
1,2-Dichloroethane-d4 (Surr)	*92*		*70 - 130*		*12/22/12 02:39*	*1*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*		*12/22/12 02:39*	*1*

Client: Groundwater & Environmental Services Inc
Project/Site: 17-EMW

TestAmerica Job ID: 490-15273-1
SDG: 304 Columbia St., Brooklyn, NY

Client Sample ID: MW-16
Date Collected: 12/18/12 08:10
Date Received: 12/20/12 08:30

Lab Sample ID: 490-15273-12
Matrix: Ground Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**1130**		10.0		ug/L			12/26/12 17:24	10
Toluene	**63.4**		1.00		ug/L			12/22/12 07:48	1
Ethylbenzene	**423**		10.0		ug/L			12/26/12 17:24	10
Xylenes, Total	**329**		3.00		ug/L			12/22/12 07:48	1
Methyl tert-butyl ether	ND		1.00		ug/L			12/22/12 07:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*98*		*70 - 130*		*12/22/12 07:48*	*1*
Dibromofluoromethane (Surr)	*95*		*70 - 130*		*12/26/12 17:24*	*10*
Toluene-d8 (Surr)	*117*		*70 - 130*		*12/22/12 07:48*	*1*
Toluene-d8 (Surr)	*116*		*70 - 130*		*12/26/12 17:24*	*10*
1,2-Dichloroethane-d4 (Surr)	*102*		*70 - 130*		*12/22/12 07:48*	*1*
1,2-Dichloroethane-d4 (Surr)	*84*		*70 - 130*		*12/26/12 17:24*	*10*
4-Bromofluorobenzene (Surr)	*122*		*70 - 130*		*12/22/12 07:48*	*1*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*		*12/26/12 17:24*	*10*

Client Sample ID: MW-17
Date Collected: 12/18/12 13:10
Date Received: 12/20/12 08:30

Lab Sample ID: 490-15273-13
Matrix: Ground Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**18.8**		1.00		ug/L			12/22/12 08:16	1
Toluene	**72.5**		10.0		ug/L			12/26/12 17:52	10
Ethylbenzene	**275**		10.0		ug/L			12/26/12 17:52	10
Xylenes, Total	**332**		30.0		ug/L			12/26/12 17:52	10
Methyl tert-butyl ether	ND		1.00		ug/L			12/22/12 08:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*96*		*70 - 130*		*12/22/12 08:16*	*1*
Dibromofluoromethane (Surr)	*94*		*70 - 130*		*12/26/12 17:52*	*10*
Toluene-d8 (Surr)	*250*	*X*	*70 - 130*		*12/22/12 08:16*	*1*
Toluene-d8 (Surr)	*119*		*70 - 130*		*12/26/12 17:52*	*10*
1,2-Dichloroethane-d4 (Surr)	*85*		*70 - 130*		*12/22/12 08:16*	*1*
1,2-Dichloroethane-d4 (Surr)	*93*		*70 - 130*		*12/26/12 17:52*	*10*
4-Bromofluorobenzene (Surr)	*206*	*X*	*70 - 130*		*12/22/12 08:16*	*1*
4-Bromofluorobenzene (Surr)	*118*		*70 - 130*		*12/26/12 17:52*	*10*

Client: Groundwater & Environmental Services Inc
Project/Site: 17-EMW

TestAmerica Job ID: 490-15273-1
SDG: 304 Columbia St., Brooklyn, NY

Client Sample ID: MW-18
Date Collected: 12/18/12 09:10
Date Received: 12/20/12 08:30

Lab Sample ID: 490-15273-14
Matrix: Ground Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**944**		10.0		ug/L			12/26/12 18:21	10
Toluene	**52.9**		1.00		ug/L			12/22/12 08:45	1
Ethylbenzene	**160**		1.00		ug/L			12/22/12 08:45	1
Xylenes, Total	**315**		3.00		ug/L			12/22/12 08:45	1
Methyl tert-butyl ether	ND		1.00		ug/L			12/22/12 08:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*96*		*70 - 130*		*12/22/12 08:45*	*1*
Dibromofluoromethane (Surr)	*94*		*70 - 130*		*12/26/12 18:21*	*10*
Toluene-d8 (Surr)	*122*		*70 - 130*		*12/22/12 08:45*	*1*
Toluene-d8 (Surr)	*101*		*70 - 130*		*12/26/12 18:21*	*10*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 130*		*12/22/12 08:45*	*1*
1,2-Dichloroethane-d4 (Surr)	*91*		*70 - 130*		*12/26/12 18:21*	*10*
4-Bromofluorobenzene (Surr)	*119*		*70 - 130*		*12/22/12 08:45*	*1*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*		*12/26/12 18:21*	*10*

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

Lab Sample ID: MB 490-45946/5
Matrix: Water
Analysis Batch: 45946

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			12/22/12 02:11	1
Toluene	ND		1.00		ug/L			12/22/12 02:11	1
Ethylbenzene	ND		1.00		ug/L			12/22/12 02:11	1
Xylenes, Total	ND		3.00		ug/L			12/22/12 02:11	1
Methyl tert-butyl ether	ND		1.00		ug/L			12/22/12 02:11	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*93*		*70 - 130*		*12/22/12 02:11*	*1*
Toluene-d8 (Surr)	*96*		*70 - 130*		*12/22/12 02:11*	*1*
1,2-Dichloroethane-d4 (Surr)	*89*		*70 - 130*		*12/22/12 02:11*	*1*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*		*12/22/12 02:11*	*1*

Lab Sample ID: LCS 490-45946/3
Matrix: Water
Analysis Batch: 45946

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	51.68		ug/L		103	80 - 121
Toluene	50.0	51.78		ug/L		104	80 - 126
Ethylbenzene	50.0	51.03		ug/L		102	80 - 130
Xylenes, Total	150	154.1		ug/L		103	80 - 132
Methyl tert-butyl ether	50.0	37.33		ug/L		75	72 - 133

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*95*		*70 - 130*
Toluene-d8 (Surr)	*97*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*89*		*70 - 130*
4-Bromofluorobenzene (Surr)	*89*		*70 - 130*

Lab Sample ID: LCSD 490-45946/4
Matrix: Water
Analysis Batch: 45946

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	50.0	53.67		ug/L		107	80 - 121	4	17
Toluene	50.0	53.56		ug/L		107	80 - 126	3	15
Ethylbenzene	50.0	52.52		ug/L		105	80 - 130	3	15
Xylenes, Total	150	158.6		ug/L		106	80 - 132	3	15
Methyl tert-butyl ether	50.0	39.55		ug/L		79	72 - 133	6	16

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*95*		*70 - 130*
Toluene-d8 (Surr)	*95*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*88*		*70 - 130*
4-Bromofluorobenzene (Surr)	*90*		*70 - 130*

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

Lab Sample ID: 490-15273-11 MS
Matrix: Ground Water
Analysis Batch: 45946

Client Sample ID: MW-15
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	ND		50.0	53.55		ug/L		106	75 - 133
Toluene	ND		50.0	53.19		ug/L		106	75 - 136
Ethylbenzene	ND		50.0	52.40		ug/L		105	79 - 139
Xylenes, Total	ND		150	155.9		ug/L		104	74 - 141
Methyl tert-butyl ether	11.3		50.0	62.14		ug/L		102	66 - 141

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*95*		*70 - 130*
Toluene-d8 (Surr)	*97*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*89*		*70 - 130*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*

Lab Sample ID: 490-15273-11 MSD
Matrix: Ground Water
Analysis Batch: 45946

Client Sample ID: MW-15
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	54.43		ug/L		108	75 - 133	2	17
Toluene	ND		50.0	49.99		ug/L		100	75 - 136	6	15
Ethylbenzene	ND		50.0	53.40		ug/L		107	79 - 139	2	15
Xylenes, Total	ND		150	158.5		ug/L		106	74 - 141	2	15
Methyl tert-butyl ether	11.3		50.0	62.91		ug/L		103	66 - 141	1	16

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*93*		*70 - 130*
Toluene-d8 (Surr)	*83*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*92*		*70 - 130*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*

Lab Sample ID: MB 490-46553/5
Matrix: Water
Analysis Batch: 46553

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			12/26/12 13:38	1
Toluene	ND		1.00		ug/L			12/26/12 13:38	1
Ethylbenzene	ND		1.00		ug/L			12/26/12 13:38	1
Xylenes, Total	ND		3.00		ug/L			12/26/12 13:38	1
Methyl tert-butyl ether	ND		1.00		ug/L			12/26/12 13:38	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*95*		*70 - 130*		*12/26/12 13:38*	*1*
Toluene-d8 (Surr)	*98*		*70 - 130*		*12/26/12 13:38*	*1*
1,2-Dichloroethane-d4 (Surr)	*92*		*70 - 130*		*12/26/12 13:38*	*1*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*		*12/26/12 13:38*	*1*

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

Lab Sample ID: LCS 490-46553/3
Matrix: Water
Analysis Batch: 46553

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	46.58		ug/L		93	80 - 121		
Toluene			50.0	47.06		ug/L		94	80 - 126		
Ethylbenzene			50.0	46.59		ug/L		93	80 - 130		
Xylenes, Total			150	139.8		ug/L		93	80 - 132		
Methyl tert-butyl ether			50.0	41.75		ug/L		84	72 - 133		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*96*		*70 - 130*
Toluene-d8 (Surr)	*98*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*89*		*70 - 130*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*

Lab Sample ID: LCSD 490-46553/4
Matrix: Water
Analysis Batch: 46553

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	46.17		ug/L		92	80 - 121	1	17
Toluene			50.0	46.50		ug/L		93	80 - 126	1	15
Ethylbenzene			50.0	46.34		ug/L		93	80 - 130	1	15
Xylenes, Total			150	138.8		ug/L		93	80 - 132	1	15
Methyl tert-butyl ether			50.0	41.34		ug/L		83	72 - 133	1	16

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*95*		*70 - 130*
Toluene-d8 (Surr)	*98*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*92*		*70 - 130*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*

GC/MS VOA

Analysis Batch: 45946

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-15273-1	MW-1	Total/NA	Ground Water	8260B	
490-15273-2	MW-3	Total/NA	Ground Water	8260B	
490-15273-3	MW-5	Total/NA	Ground Water	8260B	
490-15273-4	MW-7A	Total/NA	Ground Water	8260B	
490-15273-7	MW-11	Total/NA	Ground Water	8260B	
490-15273-8	MW-12	Total/NA	Ground Water	8260B	
490-15273-9	MW-13	Total/NA	Ground Water	8260B	
490-15273-10	MW-14	Total/NA	Ground Water	8260B	
490-15273-11	MW-15	Total/NA	Ground Water	8260B	
490-15273-11 MS	MW-15	Total/NA	Ground Water	8260B	
490-15273-11 MSD	MW-15	Total/NA	Ground Water	8260B	
490-15273-12	MW-16	Total/NA	Ground Water	8260B	
490-15273-13	MW-17	Total/NA	Ground Water	8260B	
490-15273-14	MW-18	Total/NA	Ground Water	8260B	
LCS 490-45946/3	Lab Control Sample	Total/NA	Water	8260B	
LCSD 490-45946/4	Lab Control Sample Dup	Total/NA	Water	8260B	
MB 490-45946/5	Method Blank	Total/NA	Water	8260B	

Analysis Batch: 46553

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-15273-1	MW-1	Total/NA	Ground Water	8260B	
490-15273-2	MW-3	Total/NA	Ground Water	8260B	
490-15273-5	MW-8A	Total/NA	Ground Water	8260B	
490-15273-6	MW-10	Total/NA	Ground Water	8260B	
490-15273-6	MW-10	Total/NA	Ground Water	8260B	
490-15273-7	MW-11	Total/NA	Ground Water	8260B	
490-15273-7	MW-11	Total/NA	Ground Water	8260B	
490-15273-8	MW-12	Total/NA	Ground Water	8260B	
490-15273-9	MW-13	Total/NA	Ground Water	8260B	
490-15273-10	MW-14	Total/NA	Ground Water	8260B	
490-15273-12	MW-16	Total/NA	Ground Water	8260B	
490-15273-13	MW-17	Total/NA	Ground Water	8260B	
490-15273-14	MW-18	Total/NA	Ground Water	8260B	
LCS 490-46553/3	Lab Control Sample	Total/NA	Water	8260B	
LCSD 490-46553/4	Lab Control Sample Dup	Total/NA	Water	8260B	
MB 490-46553/5	Method Blank	Total/NA	Water	8260B	

Client Sample ID: MW-1

Lab Sample ID: 490-15273-1

Date Collected: 12/18/12 13:50

Matrix: Ground Water

Date Received: 12/20/12 08:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	45946	12/22/12 03:07	MG	TAL NSH
Total/NA	Analysis	8260B		10	46553	12/26/12 15:59	MG	TAL NSH

Client Sample ID: MW-3

Lab Sample ID: 490-15273-2

Date Collected: 12/18/12 08:40

Matrix: Ground Water

Date Received: 12/20/12 08:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	45946	12/22/12 03:35	MG	TAL NSH
Total/NA	Analysis	8260B		10	46553	12/26/12 16:27	MG	TAL NSH

Client Sample ID: MW-5

Lab Sample ID: 490-15273-3

Date Collected: 12/18/12 10:10

Matrix: Ground Water

Date Received: 12/20/12 08:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	45946	12/22/12 04:03	MG	TAL NSH

Client Sample ID: MW-7A

Lab Sample ID: 490-15273-4

Date Collected: 12/18/12 15:10

Matrix: Ground Water

Date Received: 12/20/12 08:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	45946	12/22/12 04:31	MG	TAL NSH

Client Sample ID: MW-8A

Lab Sample ID: 490-15273-5

Date Collected: 12/18/12 12:10

Matrix: Ground Water

Date Received: 12/20/12 08:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		10	46553	12/26/12 18:49	MG	TAL NSH

Client Sample ID: MW-10

Lab Sample ID: 490-15273-6

Date Collected: 12/18/12 11:40

Matrix: Ground Water

Date Received: 12/20/12 08:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		10	46553	12/26/12 19:45	MG	TAL NSH
Total/NA	Analysis	8260B		100	46553	12/26/12 20:14	MG	TAL NSH

Lab Chronicle

Client: Groundwater & Environmental Services Inc
Project/Site: 17-EMW

TestAmerica Job ID: 490-15273-1
SDG: 304 Columbia St., Brooklyn, NY

Client Sample ID: MW-11

Date Collected: 12/18/12 12:40
Date Received: 12/20/12 08:30

Lab Sample ID: 490-15273-7
Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	45946	12/22/12 05:56	MG	TAL NSH
Total/NA	Analysis	8260B		1	46553	12/26/12 15:03	MG	TAL NSH
Total/NA	Analysis	8260B		10	46553	12/26/12 15:31	MG	TAL NSH

Client Sample ID: MW-12

Date Collected: 12/18/12 14:40
Date Received: 12/20/12 08:30

Lab Sample ID: 490-15273-8
Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	45946	12/22/12 06:24	MG	TAL NSH
Total/NA	Analysis	8260B		1	46553	12/26/12 14:34	MG	TAL NSH

Client Sample ID: MW-13

Date Collected: 12/18/12 10:40
Date Received: 12/20/12 08:30

Lab Sample ID: 490-15273-9
Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	45946	12/22/12 06:52	MG	TAL NSH
Total/NA	Analysis	8260B		10	46553	12/26/12 16:56	MG	TAL NSH

Client Sample ID: MW-14

Date Collected: 12/18/12 09:40
Date Received: 12/20/12 08:30

Lab Sample ID: 490-15273-10
Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	45946	12/22/12 07:20	MG	TAL NSH
Total/NA	Analysis	8260B		1	46553	12/26/12 14:06	MG	TAL NSH

Client Sample ID: MW-15

Date Collected: 12/18/12 11:10
Date Received: 12/20/12 08:30

Lab Sample ID: 490-15273-11
Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	45946	12/22/12 02:39	MG	TAL NSH

Client Sample ID: MW-16

Date Collected: 12/18/12 08:10
Date Received: 12/20/12 08:30

Lab Sample ID: 490-15273-12
Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	45946	12/22/12 07:48	MG	TAL NSH

Lab Chronicle

Client: Groundwater & Environmental Services Inc
Project/Site: 17-EMW

TestAmerica Job ID: 490-15273-1
SDG: 304 Columbia St., Brooklyn, NY

Client Sample ID: MW-16

Date Collected: 12/18/12 08:10
Date Received: 12/20/12 08:30

Lab Sample ID: 490-15273-12

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		10	46553	12/26/12 17:24	MG	TAL NSH

Client Sample ID: MW-17

Date Collected: 12/18/12 13:10
Date Received: 12/20/12 08:30

Lab Sample ID: 490-15273-13

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	45946	12/22/12 08:16	MG	TAL NSH
Total/NA	Analysis	8260B		10	46553	12/26/12 17:52	MG	TAL NSH

Client Sample ID: MW-18

Date Collected: 12/18/12 09:10
Date Received: 12/20/12 08:30

Lab Sample ID: 490-15273-14

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	45946	12/22/12 08:45	MG	TAL NSH
Total/NA	Analysis	8260B		10	46553	12/26/12 18:21	MG	TAL NSH

Laboratory References:

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

Method Summary

Client: Groundwater & Environmental Services Inc
Project/Site: 17-EMW

TestAmerica Job ID: 490-15273-1
SDG: 304 Columbia St., Brooklyn, NY

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	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: Groundwater & Environmental Services Inc
Project/Site: 17-EMW

TestAmerica Job ID: 490-15273-1
SDG: 304 Columbia St., Brooklyn, NY

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
	ACIL		393	10-30-13
A2LA	ISO/IEC 17025		0453.07	12-31-13
Alabama	State Program	4	41150	05-31-13
Alaska (UST)	State Program	10	UST-087	07-24-13
Arizona	State Program	9	AZ0473	05-05-13
Arkansas DEQ	State Program	6	88-0737	04-25-13
California	NELAP	9	1168CA	10-31-13
Canadian Assoc Lab Accred (CALA)	Canada		3744	03-08-14
Colorado	State Program	8	N/A	02-28-13
Connecticut	State Program	1	PH-0220	12-31-13
Florida	NELAP	4	E87358	06-30-13
Illinois	NELAP	5	200010	12-09-13
Iowa	State Program	7	131	05-01-14
Kansas	NELAP	7	E-10229	10-31-13
Kentucky	State Program	4	90038	12-31-12
Kentucky (UST)	State Program	4	19	09-15-13
Louisiana	NELAP	6	LA120025	12-31-12
Louisiana	NELAP	6	30613	06-30-13
Maryland	State Program	3	316	03-31-13
Massachusetts	State Program	1	M-TN032	06-30-13
Minnesota	NELAP	5	047-999-345	12-31-12
Mississippi	State Program	4	N/A	06-30-13
Montana (UST)	State Program	8	NA	01-01-15
Nevada	State Program	9	TN00032	07-31-13
New Hampshire	NELAP	1	2963	10-09-13
New Jersey	NELAP	2	TN965	06-30-13
New York	NELAP	2	11342	04-01-13
North Carolina DENR	State Program	4	387	12-31-12
North Dakota	State Program	8	R-146	06-30-13
Ohio VAP	State Program	5	CL0033	01-19-14
Oklahoma	State Program	6	9412	08-31-13
Oregon	NELAP	10	TN200001	04-30-13
Pennsylvania	NELAP	3	68-00585	06-30-13
Rhode Island	State Program	1	LAO00268	12-30-12
South Carolina	State Program	4	84009 (001)	02-28-13
South Carolina	State Program	4	84009 (002)	02-23-14
Tennessee	State Program	4	2008	02-23-14
Texas	NELAP	6	T104704077-09-TX	08-31-13
USDA	Federal		S-48469	11-02-13
Utah	NELAP	8	TAN	06-30-13
Virginia	NELAP	3	460152	06-14-13
Washington	State Program	10	C789	07-19-13
West Virginia DEP	State Program	3	219	02-28-13
Wisconsin	State Program	5	998020430	08-31-13
Wyoming (UST)	A2LA	8	453.07	12-31-13

Smeathers, John

From: Mellissa Winslow [MWinslow@gesonline.com]
Sent: Friday, December 21, 2012 9:58 AM
To: Smeathers, John
Cc: Jessica Ferngren
Subject: RE: 17-EMW

Hi John,

All samples for ExxonMobil 17-EMW should be analyzed for 8260 BTEX and MTBE. Thank you!

Mellissa

Mellissa J. Winslow
Junior Environmental Scientist
Groundwater & Environmental Services, Inc.
89 Cabot Court, Suite A
Hauppauge, NY 11788
Office: 800-360-9405 ext. 3134

From: Smeathers, John [mailto:John.Smeathers@testamericainc.com]
Sent: Friday, December 21, 2012 9:38 AM
To: Mellissa Winslow
Subject: FW: 17-EMW

Melissa,

Can you check on this since Jessica is out of the office?

John Smeathers
Project Manager I

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Please be aware that the Nashville laboratory will be closed on Tuesday, December 25th and Tuesday, January 1st. Third party couriers (FedEx, UPS, DHL, etc.) will not be delivering samples on the 25th or the 1st and the laboratory will not be staffed to accept sample drop-offs. In order to maintain sample integrity, TestAmerica advises clients not to ship samples to the laboratory on Monday, December 24th or Monday, December 31st. **TestAmerica Nashville will not accept responsibility for samples shipped on these days and arrive above the required temperature.**

From: Smeathers, John
Sent: Friday, December 21, 2012 8:34 AM
To: 'Jessica Ferngren'
Subject: 17-EMW

Jessica,

These samples arrived at the lab yesterday without the COC filled out with any analysis. 3 – 40 ml HCL VOAs were received for each sample.

John Smeathers
Project Manager I

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

2960 Foster Creighton Drive
Nashville, TN 37604
TEL 615.301.5033/FAX 615.726.3404

Please be aware that the Nashville laboratory will be closed on Tuesday, December 25th and Tuesday, January 1st. Third party couriers (FedEx, UPS, DHL, etc.) will not be delivering samples on the 25th or the 1st and the laboratory will not be staffed to accept sample drop-offs. In order to maintain sample integrity, TestAmerica advises clients not to ship samples to the laboratory on Monday, December 24th or Monday, December 31st. **TestAmerica Nashville will not accept responsibility for samples shipped on these days and arrive above the required temperature.**

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
Nashville, TN

490-15273 Chain of Custody

COOLER RECEIPT FORM

Cooler Received/Opened On 12/20/2012 @ 0830

1. Tracking # 9856 (last 4 digits, FedEx)

Courier: Fedex IR Gun ID 94660220

2. Temperature of rep. sample or temp blank when opened: 3.9 *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: (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) (M)

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) (M)

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) (M)

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. Were 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) (M)

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

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

#17) No analyses requested. (M)

BIS = Broken in shipment
Cooler Receipt Form.doc

LF-1
End of Form

Revised 11/28/12

Loc: 490
15273

12/28/2012

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Nashville Division
2960 Foster Creighton
Nashville, TN 37204

Phone: 615-726-0177
Toll Free: 800-765-0980
Fax: 615-726-3404

ExxonMobil

Consultant Name: Groundwater & Environmental Services, Inc.
Address: 89 Cabot Court, Suite A
City/State/Zip: Hauppauge, New York
ExxonMobil Project Manager: Laurie McCarthy
Consultant Project Manager: Jessica Ferngren
Consultant Telephone Number: 800-360-9405 x 4333 Fax No.: 631-582-4410
Sampler Name: (Print) BRIAN J. DUNN
Sampler Signature:

TA Account #: PO #:
Invoice To: Groundwater & Environmental Services, Inc.
Report To: LILabs@gesonline.com
Project Name: 17-EMW
Retail # (MRN):
Major Project (AFE#):
Site Address: 334 Columbia St. Brooklyn NY.
Regulatory District:

Sample ID / Description	Date Sampled	Time Sampled	No. of Containers Shipped	Grab	Composite	Field Filtered	Preservative: Ice	HNO_3 (Red Label)	HCl (Blue Label)	NaOH (Orange Label)	H_2SO_4 Plastic (Yellow Label)	H_2SO_4 Glass(Yellow Label)	None (Black Label)	Other (Specify)	Matrix: Groundwater	Wastewater	Drinking Water	Sludge	Soil	Other (specify):	Analyze For:											RUSH TAT (Pre-Schedule)	Standard TAT	Fax Results	Send QC with report
MW-1	12/18/12	1350	3	X					X						X						X										-1				
MW-3	"	0840	"	"					"						"						"										2				
MW-5	"	1010	"	"					"						"						"										3				
MW-7A	"	1510	"	"					"						"						"										4				
MW-8A	"	1210	"	"					"						"						"										5				
MW-10	"	1140	"	"					"						"						"										6				
MW-11	"	1240	"	"					"						"						"										7				
MW-12	"	1440	"	"					"						"						"										8				
MW-13	"	1040	"	"					"						"						"										9				
MW-14	"	0840	"	"					"						"						"										10				

Special Instructions:

Method of Shipment: FEDEX

Relinquished by:	Date	Time	Received by:	Date	Time
	12/18/12	1500	FEDEX	12/19/12	1500
Relinquished by:	Date	Time	Received by TestAmerica:	Date	Time
			TAW	12-20-12	0830

Laboratory Comments:
Temperature Upon Receipt: 3.9c
VOCs Free of Headspace? Y N
Sample Containers Intact? Y N

Loc: 490
15273
#1
A

12/28/2012

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Nashville Division
2960 Foster Creighton
Nashville, TN 37204

Phone: 615-726-0177
Toll Free: 800-765-0980
Fax: 615-726-3404

ExxonMobil

Consultant Name: Groundwater & Environmental Services, Inc.
Address: 89 Cabot Court, Suite A
City/State/Zip: Hauppauge, New York
ExxonMobil Project Manager: Laurie McCarthy
Consultant Project Manager: Jessica Ferngren
Consultant Telephone Number: 800-360-9405 x 4333 Fax No.: 631-582-4410
Sampler Name: (Print) BRIAN J. DUNN
Sampler Signature:

TA Account #: PO #:
Invoice To: Groundwater & Environmental Services, Inc.
Report To: LILabs@gesonline.com
Project Name: 17-EMW
Retail # (MRN):
Major Project (AFE#):
Site Address: 304 COLUMBIA ST. BROOKLYN N.Y.
Regulatory District:

Sample ID / Description	Date Sampled	Time Sampled	No. of Containers Shipped	Grab	Composite	Field Filtered	Preservative: Ice	HNO_3 (Red Label)	HCl (Blue Label)	NaOH (Orange Label)	H_2SO_4 Plastic (Yellow Label)	H_2SO_4 Glass(Yellow Label)	None (Black Label)	Other (Specify)	Matrix: Groundwater	Wastewater	Drinking Water	Sludge	Soil	Other (specify):	Analyze For:											RUSH TAT (Pre-Schedule)	Standard TAT	Fax Results	Send QC with report
MW-15	12/18/12	1110	3	X					X						X															11				
MW-16	"	0810	"	"					"						"															12				
MW-17	"	1310	"	"					"						"															13				
MW-18	↓	0910	↓	↓					↓						↓															14				

Special Instructions:

Method of Shipment: FEDEX

Relinquished by:	Date	Time	Received by:	Date	Time
	12/19/12	1500	FED EX	12/19/12	1500
Relinquished by:	Date	Time	Received by TestAmerica:	Date	Time
				12.20.12	0830

Laboratory Comments:
Temperature Upon Receipt: 3.9c
VOCs Free of Headspace? Y N
Sample Containers Intact? Y N

Login Sample Receipt Checklist

Client: Groundwater & Environmental Services Inc

Job Number: 490-15273-1
SDG Number: 304 Columbia St., Brooklyn, NY

Login Number: 15273
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.	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	