

July 31, 2015

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
Former Mobil Station #17-EMW
304 Columbia Street
Brooklyn, New York
NYSDEC Spill #89-04339**

Dear Mr. MacCabe:

Please find the enclosed *Site Status Update Report* for work performed between April and June of 2015 for Former Mobil Station #17-EMW ("the Site") located at 304 Columbia Street in Brooklyn, New York. During this monitoring period, the following work was performed:

Quarterly Groundwater Monitoring

The 2nd quarter groundwater monitoring event was conducted on June 18, 2015. Sixteen (16) monitoring wells were gauged and sampled (MW-1 through MW-3, MW-5, MW-8A, and MW-10 through MW-20). Samples collected were analyzed for BTEX and MTBE via EPA method 8260. Monitoring well MW-7A was inaccessible and was therefore not gauged or sampled. Monitoring well MW-9 could not be located and was therefore not gauged or sampled. LPH was detected in monitoring wells MW-1, MW-2, and MW-13 during the 2nd quarter 2015 groundwater monitoring event.

Dissolved BTEX concentrations ranged from non-detect at two (2) wells (MW-5 and MW-15) to 13,471 µg/L (MW-10). Dissolved MTBE concentrations ranged from non-detect at six (6) wells (MW-3, MW-5, MW-14, and MW-16 through MW-18) to 323 µg/L (MW-8A).

The next groundwater monitoring event will be conducted in September 2015 and the 3rd Quarter 2015 Site Status Update Report will be submitted in October 2015.



Should you have any questions or comments regarding the information provided herein, please contact Dennis G. Shin at (800) 360-9405, extension 4333.

Respectfully Submitted,
Groundwater & Environmental Services, Inc.

A handwritten signature in black ink, appearing to read "Chris Kelly", written in a cursive style.

Christopher J. Kelly
Junior Geologist

A handwritten signature in black ink, appearing to read "D. Shin", written in a cursive style.

Dennis G. Shin, P.E.
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:	Dennis G. Shin, P.E.

Report Date: July 31, 2015

Monitoring Period: April through June 2015

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

Work Performed:

- June 18, 2015 – Conducted quarterly groundwater monitoring activities which included the gauging and sampling of 16 monitoring wells (MW-1 through MW-3, MW-5, MW-8A, and MW-10 through MW-20). Samples collected were analyzed for BTEX and MTBE via EPA method 8260. Monitoring well MW-7A was inaccessible and was not gauged or sampled. Monitoring well MW-9 could not be located. LPH was detected in monitoring wells MW-1, MW-2, and MW-13.

Groundwater Monitoring:

Number of Wells:	Total = 18 <u>On-Site Wells:</u> MWs (14): MW-1 through MW-3, MW-5, MW-7A, MW-11 through MW-14 and MW-16 through MW-20 <u>Off-Site Wells:</u> MWs (4): MW-8A, MW-9, MW-10 and MW-15
Gauging Frequency:	Quarterly
LPH:	N/A
Groundwater Depth:	8.09 feet (MW-17) to 10.02 (MW-15) feet below TOC
Groundwater Flow:	Southwesterly
Sampling Frequency:	Quarterly
Groundwater Analytical Results:	<u>BTEX</u> : ND at two (2) wells (MW-5 and MW-15) to 13,471 µg/L (MW-10). <u>MTBE</u> : ND at six (6) wells (MW-3, MW-5, MW-14 and MW-16 through MW-18) to 323 µg/L (MW-8A).

Proposed Plans:

- Conduct quarterly groundwater sampling in September 2015.
- Prepare a Site Status Update Report in October 2015 documenting quarterly Site activities.

Attachments:

Table 1 – Historical Groundwater Monitoring Summary

Figure 1 – Groundwater Monitoring Map – June 18, 2015

Attachment A – List of Acronyms

Attachment B – Site History

Attachment C – Laboratory Analytical Results – Groundwater

TABLES

Table 1

HISTORICAL GROUNDWATER MONITORING SUMMARY

Former Mobil Station #17-EMW

304 Columbia Street

Brooklyn, NY

Well	Date	Casing Elevation	Depth to Water	Product Thickness	Adjusted Elevation	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Xylenes, Total (ug/L)	Total BTEX (ug/L)	MTBE (ug/L)
			NYSDEC TOGS 1.1.1 WQS			1	5	5	5	NS	10
MW-1	02/28/2005	100.00	8.48	0.01	91.53	-	-	-	-	-	-
	06/06/2005		8.41	0.01	91.60	-	-	-	-	-	-
	09/08/2005		9.10	0.08	90.96	-	-	-	-	-	-
	12/29/2005		7.95	0.01	92.06	-	-	-	-	-	-
	03/20/2006		8.69	0.09	91.38	-	-	-	-	-	-
	06/07/2006		7.65	-	92.35	-	-	-	-	-	-
	09/14/2006		7.70	0.19	92.44	-	-	-	-	-	-
	12/07/2006		7.88	0.26	92.32	-	-	-	-	-	-
	03/29/2007		8.44	0.16	91.68	-	-	-	-	-	-
	06/13/2007		INACCESSIBLE	-	-	-	-	-	-	-	-
	09/19/2007		9.03	0.35	91.23	-	-	-	-	-	-
	12/11/2007		9.10	0.02	90.92	-	-	-	-	-	-
	03/13/2008		8.46	-	91.54	220	79.8	830	414	1,544	14.9
	06/06/2008		8.61	-	91.39	271	89.1	817	481	1,658	17.3
	12/30/2008		8.24	-	91.76	216	67.8	539	336	1,159	13.2
	03/16/2009		9.41	-	90.59	215	78.8	761	474	1,529	9
	06/08/2009		8.23	-	91.77	24	88.4	551	692	1,355	ND < 5
	07/20/2009		8.48	0.28	91.73	-	-	-	-	-	-
	09/24/2009		9.12	0.14	90.99	-	-	-	-	-	-
	12/03/2009		8.96	0.10	91.12	-	-	-	-	-	-
	03/03/2010		7.98	-	92.02	109	75.2	948	293	1,425	3.6
	06/07/2010		8.31	0.04	91.72	-	-	-	-	-	-
	09/01/2010		9.36	-	90.64	89.3	86.5	1,010	405	1,591	ND < 20
	12/03/2010		9.13	0.03	90.89	-	-	-	-	-	-
	03/29/2011		8.01	0.17	92.12	-	-	-	-	-	-
	06/16/2011		5.53	0.40	94.77	-	-	-	-	-	-
	08/08/2011		9.06	0.18	91.08	-	-	-	-	-	-
	09/19/2011		7.75	0.38	92.54	-	-	-	-	-	-
	12/05/2011		8.24	0.12	91.85	-	-	-	-	-	-
	03/16/2012		9.32	0.03	90.70	-	-	-	-	-	-
	06/08/2012		8.44	-	91.56	33.0	29.2	199	147	408.2	ND < 1.00
	09/07/2012		8.81	-	91.19	33.5	20.5	270	119	443	ND < 1.00
	12/18/2012		8.93	-	91.07	33.5	25.4	363	203	624.9	ND < 1.00
	03/14/2013		8.71	-	91.29	42.8	38.0	378	227	685.8	ND < 1.00
	06/24/2013		7.59	-	92.41	37.5	36.0	464	224	761.5	ND < 1.00
	09/06/2013		8.93	0.08	91.13	-	-	-	-	-	-
	09/26/2013		9.14	0.16	90.98	-	-	-	-	-	-
	10/23/2013		9.41	0.04	90.62	-	-	-	-	-	-
	11/11/2013		9.74	-	90.26	-	-	-	-	-	-
	12/10/2013		9.88	-	90.12	16.7	28.7	315	211	571.4	ND < 1.00
	01/21/2014		9.09	0.04	90.94	-	-	-	-	-	-
	03/10/2014		COULD NOT GAUGE	-	-	25.1	25.1	286	208	544.2	1.43
	06/03/2014		8.10	-	91.90	20.0	ND < 20.0	371	200	591	ND < 20.0
	10/02/2014		9.59	0.12	90.50	33.6	42.7	484	321	881.3	ND < 1.00
	12/03/2014		8.73	-	91.27	42.9	39.6	472	336	890.5	ND < 5.00
	03/11/2015		8.41	-	91.59	17.1	11.7	93.1	135	256.9	ND < 1.00
	06/18/2015		8.65	0.07	91.40	-	-	-	-	-	-
MW-2	02/28/2005	100.16	8.78	0.01	91.39	-	-	-	-	-	-
	06/06/2005		8.66	0.01	91.51	-	-	-	-	-	-
	09/08/2005		9.87	0.25	90.48	-	-	-	-	-	-
	12/29/2005		8.26	0.01	91.91	-	-	-	-	-	-
	03/20/2006		8.96	0.08	91.26	-	-	-	-	-	-
	06/07/2006		7.73	-	92.43	-	-	-	-	-	-
	09/14/2006		7.90	0.32	92.50	-	-	-	-	-	-
	12/07/2006		8.20	0.40	92.26	-	-	-	-	-	-
	03/29/2007		8.81	0.09	91.42	-	-	-	-	-	-
	06/13/2007		8.15	0.43	92.33	-	-	-	-	-	-
	09/19/2007		9.18	0.50	91.36	-	-	-	-	-	-
	12/11/2007		9.35	0.07	90.86	-	-	-	-	-	-
	03/13/2008		8.77	-	91.39	204	18	130	109	461	ND < 2
	06/06/2008		9.10	-	91.06	378	25	137	93.3	633.3	71
	12/30/2008		8.56	-	91.60	305	27	50	84.4	466.4	37
	03/16/2009		9.71	-	90.45	246	18	23	53.4	340.4	67
	06/08/2009		8.61	0.08	91.61	-	-	-	-	-	-

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304 Columbia Street

Brooklyn, NY

Well	Date	Casing Elevation	Depth to Water	Product Thickness	Adjusted Elevation	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Xylenes, Total (ug/L)	Total BTEX (ug/L)	MTBE (ug/L)
			NYSDEC TOGS 1.1.1 WQS			1	5	5	5	NS	10
MW-2	07/20/2009	100.16	9.47	1.12	91.53	-	-	-	-	-	-
(cont)	09/24/2009		9.06	0.05	91.14	-	-	-	-	-	-
	12/03/2009		9.75	0.70	90.94	-	-	-	-	-	-
	03/03/2010		8.30	0.03	91.88	-	-	-	-	-	-
	06/07/2010		9.07	0.71	91.62	-	-	-	-	-	-
	09/01/2010		9.94	-	90.22	530	22	202	105	859	155
	12/03/2010		9.37	-	90.79	500	52.4	336	232	1,120	120
	03/29/2011		8.74	0.66	91.92	-	-	-	-	-	-
	06/16/2011		9.80	1.50	91.49	-	-	-	-	-	-
	08/08/2011		9.43	0.37	91.01	-	-	-	-	-	-
	09/19/2011		7.81	0.31	92.58	-	-	-	-	-	-
	12/05/2011		9.10	0.68	91.57	-	-	-	-	-	-
	03/16/2012		10.10	0.52	90.45	-	-	-	-	-	-
	06/08/2012		8.75	0.03	91.43	-	-	-	-	-	-
	09/07/2012		8.95	0.04	91.24	-	-	-	-	-	-
	12/18/2012		10.02	0.13	90.24	-	-	-	-	-	-
	03/14/2013		9.65	0.05	90.55	-	-	-	-	-	-
	06/24/2013		8.30	0.35	92.12	-	-	-	-	-	-
	09/06/2013		9.07	0.05	91.13	-	-	-	-	-	-
	10/07/2013		9.34	-	90.82	-	-	-	-	-	-
	10/23/2013		9.70	0.03	90.48	-	-	-	-	-	-
	11/11/2013		10.05	-	90.11	-	-	-	-	-	-
	12/10/2013		10.08	-	90.08	258	18.5	204	109	589.5	39.1
	01/21/2014		9.33	-	90.83	-	-	-	-	-	-
	03/10/2014		COULD NOT GAUGE	-	-	-	-	-	-	-	-
	06/03/2014		8.34	0.06	91.87	-	-	-	-	-	-
	10/02/2014		9.76	0.12	90.49	487	23.7	201	162	873.7	2.63
	12/03/2014		8.96	-	91.20	754	34.5	353	177	1,319	ND < 5.00
	03/11/2015		INACCESSIBLE	-	-	-	-	-	-	-	-
	06/18/2015		9.12	0.26	91.24	-	-	-	-	-	-
MW-3	02/28/2005	100.43	9.32	-	91.11	120	38.5	167	151	476.5	13.1
	06/06/2005		9.21	-	91.22	37.6	22.5	135	113	308.1	3.5
	09/08/2005		9.67	-	90.76	86	23.5	47.9	139	296.4	7.8
	12/29/2005		8.50	-	91.93	11.3	0.88 J	28.9	15.3	56.38	0.88 J
	03/20/2006		9.98	-	90.45	218	12.1	94.6	61.9	386.6	24.7
	06/07/2006		7.51	-	92.92	9.9	2.6	27.2	12.1	51.8	ND < 1
	09/14/2006		7.57	-	92.86	17.8	ND < 1	20.8	3.9	42.5	ND < 1
	12/07/2006		7.90	-	92.53	10.4	ND < 1	15.7	2	28.1	0.51 J
	03/29/2007		8.69	-	91.74	0.94 J	ND < 1	5.1	1	7.04	ND < 1
	06/13/2007		7.95	-	92.48	3.6	ND < 1	6.8	0.52 J	10.92	ND < 1
	09/19/2007		9.45	-	90.98	61.8	1.70	63.2	7.8	134.5	9.5
	12/11/2007		9.75	-	90.68	71.3	12.8	101	24.8	209.9	7.4
	03/13/2008		8.56	-	91.87	10.8	ND < 1	3	0.72 J	14.52	ND < 1
	06/06/2008		9.46	-	90.97	76.1	9.5	46.5	17.9	150	15
	12/30/2008		8.49	-	91.94	5.8	0.44 J	0.28 J	ND < 1	6.52	0.53 J
	03/16/2009		10.02	-	90.41	113	13.5	6	20.8	153.3	20.2
	06/08/2009		8.33	-	92.10	1.7	ND < 1	1.4	ND < 1	3.1	ND < 1
	07/20/2009		9.39	-	91.04	92	4	10.6	13.4	120	13.2
	09/24/2009		9.57	-	90.86	153	12.1	79.5	97.3	341.9	ND < 1
	12/03/2009		9.60	-	90.83	92.7	8.4	90.4	79.1	270.6	3.1
	03/03/2010		8.18	-	92.25	0.27 J	ND < 1	1.7	1.6	3.57	ND < 1
	06/07/2010		9.18	-	91.25	3	0.50 J	6.8	3.2	13.5	1.2
	09/01/2010		10.66	-	89.77	49.3	28.8	164	170	412.1	25.8
	12/03/2010		9.58	-	90.85	3.9	2.7	30.9	26.5	64	ND < 1
	03/29/2011		8.25	-	92.18	ND < 1	ND < 1	0.36 J	0.33 J	0.69	ND < 1
	06/16/2011		8.90	-	91.53	2.8 J	2.1 J	49.5	31.2	85.6	ND < 5
	08/08/2011		9.51	-	90.92	23.1	17.4	157	114	311.5	ND < 1
	03/16/2012		9.97	-	90.46	25	43	867	386	1,321	ND < 1
	06/08/2012		9.27	-	91.16	14.9	27.0	389	208	638.9	ND < 1.00
	09/07/2012		9.41	-	91.02	3.67	7.33	110	83.2	204.2	ND < 1.00
	12/18/2012		9.51	-	90.92	19.2	31.6	378	278	706.8	ND < 1.00
	03/14/2013		9.47	-	90.96	15.7	36.7	319	277	648.4	1.42
	06/24/2013		8.07	-	92.36	ND < 1.00	3.05	63.9	68.2	135.15	ND < 1.00
	09/04/2013		9.72	-	90.71	7.74	14.1	127	113	261.84	6.86

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			NYSDEC TOGS 1.1.1 WQS			1	5	5	5	NS	10
MW-3	09/06/2013	100.43	9.76	-	90.67	7.74	14.1	127	113	261.84	6.86
(cont)	11/11/2013		10.85	-	89.58	-	-	-	-	-	-
	12/10/2013		10.55	-	89.88	4.18	18.5	222	211	455.68	ND < 1.00
	01/21/2014		9.78	-	90.65	-	-	-	-	-	-
	03/10/2014		COULD NOT GAUGE	-	-	1.60	5.32	75.7	118	200.62	1.26
	06/03/2014		8.56	-	91.87	ND < 1.00	1.26	28.3	43.2	72.76	ND < 1.00
	10/02/2014		10.29	-	90.14	3.21	4.44	12.2	118	137.85	ND < 1.00
	12/03/2014		9.50	-	90.93	1.08	2.15	20.8	61.7	85.73	ND < 1.00
	03/11/2015		8.19	-	92.24	ND < 1.00	ND < 1.00	1.63	2.95	4.58	ND < 1.00
	06/18/2015		9.52	-	90.91	ND < 1.00	1.12	5.18	26.4	32.7	ND < 1.00
MW-4	02/28/2005	100.05	9.02	-	91.03	50	2.6	11	25	88.6	ND < 1
	06/06/2005		9.18	-	90.87	4.6	ND < 1	0.49 J	ND < 1	5.09	ND < 1
	12/29/2005		8.54	-	91.51	ND < 1	ND < 1	ND < 1	ND < 1	ND	ND < 1
	03/20/2006		9.16	-	90.89	9.1	ND < 1	0.62 J	0.59 J	10.31	ND < 1
	06/07/2006		8.00	-	92.05	ND < 1	ND < 1	ND < 1	ND < 1	ND	ND < 1
	09/14/2006	NSD	DESTROYED	-	-	-	-	-	-	-	-
MW-5	02/28/2005	101.15	8.47	-	92.68	0.86 J	ND < 1	1.6	8.1	10.56	3.1
	06/06/2005		8.73	-	92.42	ND < 1	ND < 1	ND < 1	ND < 1	ND	ND < 1
	09/08/2005		-	-	-	ND < 1	ND < 1	4.7	7.3	12	ND < 1
	12/29/2005		7.95	-	93.20	ND < 1	ND < 1	ND < 1	ND < 1	ND	ND < 1
	03/20/2006		8.63	-	92.52	ND < 1	ND < 1	ND < 1	ND < 1	ND	ND < 1
	06/07/2006		8.12	-	93.03	ND < 1	ND < 1	ND < 1	0.65 J	0.65	ND < 1
	12/07/2006		7.97	-	93.18	ND < 1	ND < 1	ND < 1	ND < 1	ND	ND < 1
	03/29/2007		8.10	-	93.05	ND < 1	ND < 1	ND < 1	ND < 1	ND	ND < 1
	06/13/2007		7.68	-	93.47	ND < 1	ND < 1	ND < 1	ND < 1	ND	ND < 1
	09/19/2007		8.96	-	92.19	ND < 1	ND < 1	ND < 1	ND < 1	ND	ND < 1
	12/11/2007		9.20	-	91.95	ND < 1	ND < 1	ND < 1	ND < 1	ND	ND < 1
	03/13/2008		8.56	-	92.59	ND < 1	ND < 1	ND < 1	ND < 1	ND	ND < 1
	06/06/2008		8.85	-	92.30	ND < 1	ND < 1	ND < 1	ND < 1	ND	ND < 1
	12/30/2008		8.09	-	93.06	ND < 1	ND < 1	ND < 1	ND < 1	ND	ND < 1
	03/16/2009		9.41	-	91.74	ND < 1	ND < 1	ND < 1	ND < 1	ND	ND < 1
	06/08/2009		8.40	-	92.75	ND < 1	ND < 1	ND < 1	ND < 1	ND	ND < 1
	07/20/2009		8.63	-	92.52	-	-	-	-	-	-
	09/24/2009		9.29	-	91.86	ND < 1	ND < 1	ND < 1	ND < 1	ND	ND < 1
	12/03/2009		9.00	-	92.15	ND < 1	ND < 1	ND < 1	ND < 1	ND	ND < 1
	03/03/2010		7.74	-	93.41	ND < 1	ND < 1	ND < 1	0.35 J	0.35	ND < 1
	06/07/2010		8.73	-	92.42	ND < 1	ND < 1	ND < 1	ND < 1	ND	ND < 1
	09/01/2010		9.61	-	91.54	ND < 1	ND < 1	ND < 1	ND < 1	ND	ND < 1
	12/03/2010		9.40	-	91.75	ND < 1	ND < 1	ND < 1	ND < 1	ND	0.35 J
	03/29/2011		7.91	-	93.24	ND < 1	ND < 1	ND < 1	ND < 1	ND	ND < 1
	06/16/2011		8.60	-	92.55	ND < 1	ND < 1	ND < 1	0.25 J	0.25	ND < 1
	08/08/2011		9.17	-	91.98	ND < 1	ND < 1	ND < 1	ND < 1	ND	1.3
	09/19/2011		7.64	-	93.51	ND < 1	ND < 1	ND < 1	ND < 1	ND	ND < 1
	12/05/2011		8.40	-	92.75	ND < 0.22	ND < 0.15	ND < 0.21	ND < 0.17	ND	ND < 0.18
	03/16/2012		9.37	-	91.78	ND < 1	ND < 1	ND < 1	ND < 3	ND	ND < 1
	06/08/2012		8.60	-	92.55	ND < 1.00	ND < 1.00	ND < 1.00	ND < 3.00	ND	ND < 1.00
	09/07/2012		9.19	-	91.96	ND < 1.00	ND < 1.00	ND < 1.00	ND < 3.00	ND	ND < 1.00
	12/18/2012		9.01	-	92.14	ND < 1.00	ND < 1.00	ND < 1.00	ND < 3.00	ND	ND < 1.00
	03/14/2013		8.42	-	92.73	ND < 1.00	ND < 1.00	ND < 1.00	ND < 3.00	ND	ND < 1.00
	06/24/2013		8.16	-	92.99	ND < 1.00	ND < 1.00	ND < 1.00	ND < 3.00	ND	ND < 1.00
	09/04/2013		9.21	-	91.94	ND < 1.00	ND < 1.00	ND < 1.00	ND < 2.00	ND	ND < 1.00
	09/06/2013		9.22	-	91.93	ND < 1.00	ND < 1.00	ND < 1.00	ND < 2.00	ND	ND < 1.00
	12/10/2013		9.68	-	91.47	ND < 1.00	ND < 1.00	ND < 1.00	ND < 3.00	ND	ND < 1.00
	01/21/2014		INACCESSIBLE	-	-	-	-	-	-	-	-
	03/10/2014		COULD NOT GAUGE	-	-	ND < 1.00	ND < 1.00	ND < 1.00	ND < 3.00	ND	ND < 1.00
	06/03/2014		8.52	-	92.63	ND < 1.00	ND < 1.00	ND < 1.00	ND < 2.00	ND	ND < 1.00
	10/02/2014		10.11	-	91.04	ND < 1.00	ND < 1.00	ND < 1.00	ND < 2.00	ND	ND < 1.00
	12/03/2014		9.20	-	91.95	ND < 1.00	ND < 1.00	ND < 1.00	ND < 2.00	ND	ND < 1.00
	03/11/2015		8.65	-	92.50	ND < 1.00	ND < 1.00	ND < 1.00	ND < 2.00	ND	ND < 1.00
	06/18/2015		8.60	-	92.55	ND < 1.00	ND < 1.00	ND < 1.00	ND < 3.00	ND	ND < 1.00
MW-6A	02/28/2005	101.17	8.29	-	92.88	ND < 1	ND < 1	ND < 1	ND < 1	-	ND < 1
	06/06/2005	NSD	DESTROYED	-	-	-	-	-	-	-	-
MW-7A	02/28/2005	101.24	9.67	-	91.57	151	3.8	3	8.8	166.6	2.5
	06/06/2005		9.59	-	91.65	13	ND < 1	ND < 1	ND < 1	13	ND < 1

Table 1

HISTORICAL GROUNDWATER MONITORING SUMMARY

Former Mobil Station #17-EMW

304 Columbia Street

Brooklyn, NY

Well	Date	Casing Elevation	Depth to Water	Product Thickness	Adjusted Elevation	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Xylenes, Total (ug/L)	Total BTEX (ug/L)	MTBE (ug/L)
			NYSDEC TOGS 1.1.1 WQS			1	5	5	5	NS	10
MW-7A	12/29/2005	101.24	9.27	-	91.97	105	1	5.2	4	115.2	3.2
(cont)	03/20/2006		9.57	-	91.67	9.4	ND < 1	ND < 1	0.46 J	9.86	0.51 J
	06/07/2006		8.72	-	92.52	328	9.2	20	49	406.2	1.8
	09/14/2006		8.52	-	92.72	4.7	ND < 1	0.35 J	ND < 1	5.05	ND < 1
	12/07/2006		8.75	-	92.49	ND < 1	ND < 1	ND < 1	ND < 1	ND	ND < 1
	03/29/2007		9.48	-	91.76	291	6	8.2	17	322.2	ND < 1
	06/13/2007		8.56	-	92.68	448	18	28	53	547	2.4
	09/19/2007		9.55	-	91.69	ND < 1	ND < 1	ND < 1	ND < 1	ND	ND < 1
	12/11/2007		10.27	-	90.97	ND < 1	ND < 1	ND < 1	ND < 1	ND	2.3
	03/13/2008		9.56	-	91.68	202	3.7	8.4	10	224.1	ND < 2.0
	06/06/2008		9.74	-	91.50	4.5	ND < 1	ND < 1	ND < 1	4.5	0.31 J
	12/30/2008		9.53	-	91.71	335	4.6	3.4	21	364	1.9
	03/16/2009		10.58	-	90.66	ND < 1	ND < 1	ND < 1	ND < 1	ND	ND < 1
	06/08/2009		9.52	-	91.72	30	ND < 1	ND < 1	ND < 1	30	ND < 1
	07/20/2009		8.98	-	92.26	1	ND < 1	ND < 1	ND < 1	1	0.48 J
	09/24/2009		10.07	-	91.17	ND < 1	ND < 1	ND < 1	ND < 1	ND	ND < 1
	12/03/2009		10.11	-	91.13	ND < 1	ND < 1	ND < 1	ND < 1	ND	0.52 J
	03/03/2010		9.41	-	91.83	145	2.9	5.5	5.6	159	1.2
	06/07/2010		9.36	-	91.88	0.36 J	ND < 1	ND < 1	ND < 1	0.36	ND < 1
	09/01/2010		10.50	-	90.74	ND < 1	ND < 1	ND < 1	ND < 1	ND	ND < 1
	12/03/2010		10.31	-	90.93	ND < 1	ND < 1	ND < 1	ND < 1	ND	ND < 1
	03/29/2011		8.87	-	92.37	1.7	ND < 1	ND < 1	ND < 1	1.7	ND < 1
	06/16/2011		9.55	0.25	91.88	-	-	-	-	-	-
	08/08/2011		9.99	0.01	91.26	-	-	-	-	-	-
	09/19/2011		INACCESSIBLE	-	-	-	-	-	-	-	-
	03/16/2012		10.48	-	90.76	107	1.31	3.55	ND < 3	111.86	1.09
	06/08/2012		9.76	-	91.48	143	4.03	25.3	7.23	179.56	1.12
	09/07/2012		10.02	-	91.22	14.4	ND < 1.00	ND < 1.00	ND < 3.00	14.4	ND < 1.00
	12/18/2012		10.13	-	91.11	12.9	ND < 1.00	ND < 1.00	ND < 3.00	12.9	ND < 1.00
	03/14/2013		9.85	-	91.39	88.8	1.84	12.4	8.73	111.77	ND < 1.00
	06/24/2013		8.76	-	92.48	45.8	ND < 1.00	3.81	ND < 3.00	49.61	ND < 1.00
	09/04/2013		9.96	0.05	91.32	ND < 1.00	ND < 1.00	ND < 1.00	ND < 2.00	ND	ND < 1.00
	09/06/2013		10.05	0.06	91.24	ND < 1.00	ND < 1.00	ND < 1.00	ND < 2.00	ND	ND < 1.00
	12/10/2013		INACCESSIBLE	-	-	-	-	-	-	-	-
	01/21/2014		INACCESSIBLE	-	-	-	-	-	-	-	-
	03/10/2014		COULD NOT GAUGE	-	-	9.00	ND < 1.00	ND < 1.00	ND < 3.00	9	ND < 1.00
	06/03/2014		9.21	-	92.03	2.07	ND < 1.00	ND < 1.00	ND < 2.00	2.07	ND < 1.00
	10/02/2014		10.60	-	90.64	3.16	ND < 1.00	ND < 1.00	ND < 2.00	3.16	ND < 1.00
	12/03/2014		9.77	-	91.47	6.83	ND < 1.00	ND < 1.00	ND < 2.00	6.83	ND < 1.00
	03/11/2015		INACCESSIBLE	-	-	-	-	-	-	-	-
	06/18/2015		INACCESSIBLE	-	-	-	-	-	-	-	-
MW-8A	02/28/2005	100.59	10.02	-	90.57	1,430	369	1,020	3,180	5,999	4,720
	06/06/2005		9.48	-	91.11	1,660	391	1,150	3,960	7,161	3,980
	09/08/2005		10.02	-	90.57	2,030	447	1,200	3,880	7,557	3,640
	12/29/2005		9.18	-	91.41	434	49.3	216	675	1,374	250
	03/20/2006		9.87	-	90.72	2,060	467	1,220	4,040	7,787	4,730
	09/14/2006		8.74	-	91.85	2,170	510	1,380	4,320	8,380	2,370
	12/07/2006		8.62	-	91.97	1,660	430	1,350	4,570	8,010	1,980
	03/29/2007		9.52	-	91.07	1,420	341	908	2,370	5,039	2,960
	06/13/2007		8.55	-	92.04	444	155	694	1,770	3,063	380
	09/19/2007		9.36	-	91.23	1,090	267	915	2,570	4,842	1,160
	12/11/2007		10.13	-	90.46	1,530	305	1,090	3,420	6,345	1,570
	03/13/2008		9.69	-	90.90	1,580	315	1,140	3,430	6,465	1,850
	06/06/2008		9.35	-	91.24	1,230	280	1,070	2,610	5,190	806
	12/30/2008		9.17	-	91.42	82.5	21.3	131	237	471.8	22.6
	06/08/2009		9.18	-	91.41	292	64.9	348	616	1,321	129
	07/20/2009		9.10	-	91.49	292	72.8	324	525	1,214	149
	09/24/2009		10.79	-	89.80	984	223	909	2,320	4,436	542
	12/03/2009		9.75	-	90.84	1,030	235	1,060	2,240	4,565	452
	03/03/2010		9.25	-	91.34	691	177	762	2,070	3,700	185
	06/07/2010		9.17	-	91.42	1,020	213	869	2,060	4,162	766
	09/01/2010		10.18	-	90.41	1,520	291	1,070	3,030	5,911	939
	12/03/2010		10.00	-	90.59	942	253	745	1,900	3,840	555
	03/29/2011		9.46	-	91.13	1,070	227	831	1,860	3,988	418

Table 1

HISTORICAL GROUNDWATER MONITORING SUMMARY

Former Mobil Station #17-EMW

304 Columbia Street

Brooklyn, NY

Well	Date	Casing Elevation	Depth to Water	Product Thickness	Adjusted Elevation	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Xylenes, Total (ug/L)	Total BTEX (ug/L)	MTBE (ug/L)
			NYSDEC TOGS 1.1.1 WQS			1	5	5	5	NS	10
MW-8A	09/19/2011	100.59	8.26	-	92.33	779	157	533	1,060	2,529	298
(cont)	12/05/2011		9.20	-	91.39	1,540	222	682	1,530	3,974	637
	03/16/2012		10.07	-	90.52	2,220	386	1,410	5,250	9,266	1,100
	06/08/2012		9.84	-	90.75	808	111	434	1,200	2,553	983
	09/07/2012		10.00	-	90.59	985	154	341	953	2,433	376
	12/18/2012		10.78	-	89.81	1,300	231	496	2,200	4,227	336
	03/14/2013		11.08	-	89.51	1,160	188	551	2,360	4,259	330
	06/24/2013		9.31	-	91.28	991	155	482	1,930	3,558	157
	09/06/2013		10.82	-	89.77	1,670	306	1,250	3,790	7,016	337
	12/10/2013		11.44	-	89.15	1,370	226	742	3,210	5,548	333
	01/21/2014		INACCESSIBLE	-	-	-	-	-	-	-	-
	03/10/2014		COULD NOT GAUGE	-	-	1,860	299	989	3,320	6,468	390
	06/03/2014		10.68	-	89.91	1,400	251	361	909	2,921	278
	10/02/2014		11.05	-	89.54	1,500	286	1,120	3,720	6,626	367
	12/03/2014		10.01	-	90.58	2,200	303	1,700	4,730	8,933	347
	03/11/2015		10.30	-	90.29	1,480	326	1,670	6,450	9,926	429
	06/18/2015		9.81	-	90.78	1,900	303	1,690	5,850	9,743	323
MW-9	02/28/2005	100.10	9.45	-	90.65	ND < 1	ND < 1	ND < 1	ND < 1	ND	1.8
	06/06/2005		9.38	-	90.72	ND < 1	ND < 1	ND < 1	ND < 1	ND	1.1
	09/08/2005		10.01	-	90.09	ND < 1	ND < 1	0.73 J	2	2.73	7.3
	12/29/2005		8.88	-	91.22	ND < 1	ND < 1	ND < 1	ND < 1	ND	16.7
	03/20/2006		9.65	-	90.45	ND < 1	ND < 1	ND < 1	ND < 1	ND	9.8
	09/14/2006		8.93	-	91.17	0.93 J	ND < 1	0.43 J	1.1	2.46	20.8
	12/07/2006		8.72	-	91.38	0.88 J	0.72 J	ND < 1	3.6	5.2	45
	03/29/2007		9.09	-	91.01	ND < 1	ND < 1	ND < 1	ND < 1	ND	46.8
	06/13/2007		8.64	-	91.46	4.9	1.7	ND < 1	6.4	13	60
	09/19/2007		9.39	-	90.71	0.35 J	ND < 1	ND < 1	0.97 J	1.32	19.2
	12/11/2007		9.80	-	90.30	ND < 1	ND < 1	ND < 1	ND < 1	ND	15.7
	03/13/2008		8.98	-	91.12	ND < 1	ND < 1	ND < 1	ND < 1	ND	6.5
	06/06/2008		9.19	-	90.91	ND < 1	ND < 1	ND < 1	ND < 1	ND	6.2
	12/30/2008		8.75	-	91.35	ND < 1	ND < 1	ND < 1	ND < 1	ND	2.6
	07/20/2009		9.10	-	91.00	-	-	-	-	-	-
	09/24/2009		9.71	-	90.39	ND < 1	ND < 1	ND < 1	ND < 1	ND	2.6
	12/03/2009		9.62	-	90.48	ND < 1	ND < 1	ND < 1	ND < 1	ND	4.6
	03/03/2010		8.47	-	91.63	ND < 1	ND < 1	ND < 1	ND < 1	ND	0.32 J
	06/07/2010		9.24	-	90.86	ND < 1	ND < 1	ND < 1	ND < 1	ND	2.9
	09/01/2010		10.11	-	89.99	ND < 1	ND < 1	ND < 1	ND < 1	ND	6.7
	12/03/2010		9.90	-	90.20	ND < 1	ND < 1	ND < 1	ND < 1	ND	6.7
	03/29/2011		9.04	-	91.06	ND < 1	ND < 1	ND < 1	ND < 1	ND	1.5
	12/05/2011		9.20	-	90.90	ND < 0.22	ND < 0.15	ND < 0.21	0.17	0.17	10.1
	03/16/2012		10.33	-	89.77	ND < 1	ND < 1	ND < 1	ND < 3	ND	9.21
	06/08/2012		9.44	-	90.66	ND < 1.00	ND < 1.00	ND < 1.00	ND < 3.00	ND	12.6
	09/07/2012		9.79	-	90.31	ND < 1.00	ND < 1.00	ND < 1.00	ND < 3.00	ND	11.0
	12/18/2012		CNL	-	-	-	-	-	-	-	-
	03/14/2013		CNL	-	-	-	-	-	-	-	-
	06/24/2013		CNL	-	-	-	-	-	-	-	-
	09/06/2013		CNL	-	-	-	-	-	-	-	-
	12/10/2013		CNL	-	-	-	-	-	-	-	-
	01/21/2014		CNL	-	-	-	-	-	-	-	-
	03/10/2014		CNL	-	-	-	-	-	-	-	-
	06/03/2014		CNL	-	-	-	-	-	-	-	-
	10/02/2014		CNL	-	-	-	-	-	-	-	-
	12/03/2014		CNL	-	-	-	-	-	-	-	-
	03/11/2015		CNL	-	-	-	-	-	-	-	-
	06/18/2015		CNL	-	-	-	-	-	-	-	-
MW-10	02/28/2005	100.50	9.94	-	90.56	5,040	763	1,520	7,160	14,483	10,300
	06/06/2005		9.03	-	91.47	823	97.6	298	1,390	2,609	1,560
	09/08/2005		9.90	-	90.60	2,780	331	1,000	3,840	7,951	5,030
	12/29/2005		8.90	-	91.60	754	192	942	1,900	3,788	833
	03/20/2006		9.54	-	90.96	6,220	803	1,640	6,970	15,633	10,500
	06/07/2006		9.01	-	91.49	4,580	459	1,150	4,290	10,479	6,210
	09/14/2006		8.58	-	91.92	4,900	625	1,520	5,930	12,975	6,740
	12/07/2006		8.52	-	91.98	3,070	504	2,030	7,360	12,964	1,410
	03/29/2007		9.40	-	91.10	7,050	1,180	3,550	11,900	23,680	6,820

Table 1

HISTORICAL GROUNDWATER MONITORING SUMMARY

Former Mobil Station #17-EMW

304 Columbia Street

Brooklyn, NY

Well	Date	Casing Elevation	Depth to Water	Product Thickness	Adjusted Elevation	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Xylenes, Total (ug/L)	Total BTEX (ug/L)	MTBE (ug/L)
			NYSDEC TOGS 1.1.1 WQS			1	5	5	5	NS	10
MW-10	06/13/2007	100.50	8.42	-	92.08	1,450	231	909	2,980	5,570	466
(cont)	09/19/2007		9.22	-	91.28	3,380	445	1,400	4,500	9,725	1,310
	12/11/2007		11.03	-	89.47	3,030	411	1,360	4,010	8,811	1,750
	03/13/2008		9.56	-	90.94	4,270	530	1,520	5,160	11,480	2,470
	06/06/2008		9.25	-	91.25	3,080	414	1,510	4,450	9,454	1,260
	12/30/2008		9.05	-	91.45	903	115	649	1,500	3,167	213
	06/08/2009		8.97	-	91.53	1,110	143	658	1,440	3,351	166
	07/20/2009		8.98	-	91.52	1,050	157	593	1,250	3,050	97.1
	09/24/2009		9.59	-	90.91	2,390	374	1,490	3,210	7,464	315
	12/03/2009		9.55	-	90.95	3,380	673	3,900	3,990	11,943	698
	03/03/2010		9.25	-	91.25	3,450	440	1,400	3,440	8,730	1,810
	06/07/2010		9.02	-	91.48	3,210	403	1,260	2,760	7,633	1,380
	09/01/2010		10.00	-	90.50	4,870	485	1,830	4,040	11,225	1,580
	12/03/2010		9.80	-	90.70	3,950	496	1,510	3,180	9,136	ND < 10
	03/29/2011		9.35	-	91.15	5,450	594	1,550	3,700	11,294	1,640
	06/16/2011		8.80	-	91.70	5,410	555	1,450	3,580	10,995	1,160
	08/08/2011		9.72	-	90.78	6,180	645	1,450	3,460	11,735	1,030
	09/19/2011		8.19	-	92.31	1,810	162	497	957	3,426	191
	12/05/2011		9.00	-	91.50	3,790	443	1,910	3,860	10,003	610
	03/16/2012		10.51	-	89.99	5,350	744	2,220	5,690	14,004	1,210
	06/08/2012		9.47	-	91.03	3,780	343	859	1,720	6,702	860
	09/07/2012		10.04	-	90.46	3,930	334	738	2,290	7,292	777
	12/18/2012		10.83	-	89.67	5,460	623	1,170	3,340	10,593	708
	03/14/2013		10.99	-	89.51	5,030	469	1,280	3,010	9,789	712
	06/24/2013		8.51	-	91.99	2,680	330	927	2,900	6,837	137
	09/06/2013		10.66	-	89.84	5,290	524	1,360	3,150	10,324	383
	12/10/2013		11.36	-	89.14	6,080	560	1,410	4,520	12,570	464
	03/10/2014		COULD NOT GAUGE	-	-	6,990	680	1,770	5,550	14,990	657
	06/03/2014		9.71	-	90.79	3,400	455	1,250	3,700	8,805	476
	10/02/2014		10.90	-	89.60	5,540	636	2,200	5,670	14,046	601
	12/03/2014		9.91	-	90.59	5,250	664	2,050	5,380	13,344	612
	03/11/2015		10.24	-	90.26	5,880	766	2,300	7,140	16,086	309
	06/18/2015		9.69	-	90.81	5,580	631	1,780	5,480	13,471	202
MW-11	02/28/2005	99.62	8.14	-	91.48	619	576	1,050	4,270	6,515	77
	06/06/2005		8.07	-	91.55	616	410	1,070	5,050	7,146	71
	09/08/2005		8.81	0.03	90.83	-	-	-	-	-	-
	12/29/2005		11.63	-	87.99	697	249	1,170	3,630	5,746	57
	03/20/2006		8.13	-	91.49	625	294	1,070	4,130	6,119	39
	06/07/2006		7.45	-	92.17	-	-	-	-	-	-
	09/14/2006		7.13	0.02	92.51	-	-	-	-	-	-
	12/07/2006		7.30	0.02	92.34	-	-	-	-	-	-
	03/29/2007		7.94	-	91.68	531	199	1,030	1,580	3,340	ND < 10
	06/13/2007		7.18	-	92.44	438	125	738	935	2,236	32
	09/19/2007		8.11	-	91.51	718	231	1,050	1,800	3,799	36
	12/11/2007		8.70	0.02	90.94	-	-	-	-	-	-
	03/13/2008		8.20	-	91.42	336	153	860	1,530	2,879	ND < 5
	06/06/2008		8.17	-	91.45	617	194	954	1,410	3,175	37
	12/30/2008		7.91	-	91.71	473	185	990	1,730	3,378	23.9
	03/16/2009		9.06	-	90.56	423	192	770	1,610	2,995	20.9
	06/08/2009		7.87	-	91.75	575	209	1,110	2,330	4,224	27.4
	07/20/2009		7.93	0.08	91.75	-	-	-	-	-	-
	09/24/2009		8.59	0.05	91.07	-	-	-	-	-	-
	12/03/2009		8.51	-	91.11	797	142	1,280	1,020	3,239	46.9
	03/03/2010		7.66	-	91.96	518	110	1,060	1,010	2,698	23.4
	06/07/2010		7.94	-	91.68	382	33.1	901	498	1,814	23.1
	09/01/2010		8.98	-	90.64	510	131	1,300	1,620	3,561	ND < 100
	12/03/2010		8.71	-	90.91	513	206	911	1,560	3,190	11.3
	03/29/2011		7.45	-	92.17	68.3	7.60	199	234	508.9	3.20
	06/16/2011		7.71	-	91.91	148	23.3	293	315	779.3	2.80
	08/08/2011		8.54	-	91.08	308	48.5	380	385	1,122	7.90
	09/19/2011		6.98	-	92.64	57	12.3	162	171	402.3	1.40
	12/05/2011		7.81	-	91.81	144	52	304	455	955	4
	03/16/2012		8.98	-	90.64	637	149	794	1,580	3,160	12
	06/08/2012		8.14	-	91.48	492	161	611	1,090	2,354	9.70

Table 1

HISTORICAL GROUNDWATER MONITORING SUMMARY

Former Mobil Station #17-EMW

304 Columbia Street

Brooklyn, NY

Well	Date	Casing Elevation	Depth to Water	Product Thickness	Adjusted Elevation	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Xylenes, Total (ug/L)	Total BTEX (ug/L)	MTBE (ug/L)
			NYSDEC TOGS 1.1.1 WQS			1	5	5	5	NS	10
MW-11	09/07/2012	99.62	8.18	-	91.44	604	164	699	1,240	2,707	7.61
(cont)	12/18/2012		8.61	-	91.01	587	184	702	1,320	2,793	7.11
	03/14/2013		8.40	-	91.22	487	150	608	934	2,179	7.78
	06/24/2013		7.27	-	92.35	403	113	495	447	1,458	3.98
	09/04/2013		8.50	-	91.12	513	147	947	1,230	2,837	3.54
	09/06/2013		8.56	-	91.06	513	147	947	1,230	2,837	3.54
	10/07/2013		8.76	-	90.86	-	-	-	-	-	-
	10/23/2013		9.03	-	90.59	-	-	-	-	-	-
	11/11/2013		9.42	-	90.20	-	-	-	-	-	-
	12/10/2013		9.92	-	89.70	490	107	561	869	2,027	2.93
	01/21/2014		8.65	-	90.97	-	-	-	-	-	-
	03/10/2014		COULD NOT GAUGE	-	-	435	86.0	521	801	1,843	3.54
	06/03/2014		7.71	-	91.91	218	70.6	287	468	1,044	3.16
	10/02/2014		9.00	-	90.62	309	74.9	407	475	1,266	ND < 10.0
	12/03/2014		8.28	-	91.34	241	61.8	325	354	981.8	4.82
	03/11/2015		8.32	-	91.30	193	62.5	497	567	1,320	ND < 1.00
	06/18/2015		8.47	-	91.15	246	63.3	540	551	1,400	4.43
MW-12	02/28/2005	100.85	9.38	-	91.47	127	6.6	50	57	240.6	24.8
	06/06/2005		9.17	-	91.68	250	8.2	29.2	51.4	338.8	129
	03/20/2006		9.17	-	91.68	229	9	35.5	50.2	323.7	26.6
	06/07/2006		8.68	-	92.17	470	17.4	81.1	86.8	655.3	96.7
	09/14/2006		8.13	-	92.72	476	14	42.9	63.2	596.1	55
	12/07/2006		8.37	-	92.48	225	7.3	5.1	22.5	259.9	29.4
	03/29/2007		9.16	-	91.69	193	3.7	4	12.5	213.2	44.3
	06/13/2007		8.28	-	92.57	274	8.3	5.8	24.7	312.8	86.5
	09/19/2007		9.16	-	91.69	285	6.2	4.2	20.5	315.9	33
	12/11/2007		9.90	-	90.95	249	5	4.2	17.6	275.8	31.6
	03/13/2008		9.21	-	91.64	172	3.6	11	14.4	201	ND < 1
	06/06/2008		9.33	-	91.52	134	4.4	8.5	15.8	162.7	20.6
	12/30/2008		9.22	-	91.63	603	12.3	115	53.9	784.2	41
	03/16/2009		10.21	-	90.64	144	3.2	32.2	17.7	197.1	12.9
	06/08/2009		9.16	-	91.69	474	8.6	69.2	33.5	585.3	147
	07/20/2009		9.38	-	91.47	14.5	0.56 J	15.2	2.4	32.66	41.9
	09/24/2009		9.71	-	91.14	54.8	3.1	37.8	21.4	117.1	113
	12/03/2009		9.75	-	91.10	120	3.9	52.7	28.5	205.1	88.4
	03/03/2010		9.15	-	91.70	148	3.6	23.1	16.1	190.8	41.4
	06/07/2010		8.97	-	91.88	22.9	1.1	8.4	7.2	39.6	8.6
	09/01/2010		10.22	-	90.63	111	2.4	10.7	11.6	135.7	23
	12/03/2010		10.00	-	90.85	87	1.6	7.5	7	103.1	20.3
	03/29/2011		8.53	-	92.32	2.1	ND < 1	0.34 J	0.32 J	2.76	6.7
	06/16/2011		8.90	-	91.95	3.5	0.36 J	0.72 J	1.3	5.88	8.9
	08/08/2011		9.70	-	91.15	24	1.4	3.5	6.6	35.5	32.5
	09/19/2011		8.39	-	92.46	2.8	0.35 J	2.4	3.2	8.75	ND < 1
	03/16/2012		10.17	-	90.68	27	1.05	8.41	4.22	40.68	24
	06/08/2012		9.42	-	91.43	30.2	ND < 1.00	4.87	ND < 3.00	35.07	24.3
	09/07/2012		9.66	-	91.19	38.2	ND < 1.00	4.92	ND < 3.00	43.12	ND < 1.00
	12/18/2012		9.98	-	90.87	50.5	1.02	5.07	ND < 3.00	56.59	13.4
	03/14/2013		9.58	-	91.27	35.3	ND < 1.00	5.36	ND < 3.00	40.66	13.5
	06/24/2013		8.36	-	92.49	2.76	ND < 1.00	ND < 1.00	ND < 3.00	2.76	2.48
	09/04/2013		9.58	-	91.27	15.5	ND < 1.00	3.19	ND < 2.00	18.69	7.88
	09/06/2013		9.65	-	91.20	15.5	ND < 1.00	3.19	ND < 2.00	18.69	7.88
	10/07/2013		9.98	-	90.87	-	-	-	-	-	-
	12/10/2013		10.67	-	90.18	34.4	ND < 1.00	1.45	ND < 3.00	35.85	12.1
	01/21/2014		-	-	-	-	-	-	-	-	-
	03/10/2014		COULD NOT GAUGE	-	-	5.71	ND < 1.00	ND < 1.00	ND < 3.00	5.71	ND < 1.00
	06/03/2014		8.81	-	92.04	2.19	ND < 1.00	ND < 1.00	ND < 2.00	2.19	1.59
	10/02/2014		10.25	-	90.60	10.2	ND < 1.00	ND < 1.00	ND < 2.00	10.2	5.21
	12/03/2014		9.55	-	91.30	19.9	ND < 1.00	ND < 1.00	ND < 2.00	19.9	8.41
	03/11/2015		9.34	-	91.51	10.7	ND < 1.00	ND < 1.00	ND < 2.00	10.7	ND < 1.00
	06/18/2015		9.44	-	91.41	1.56	ND < 1.00	ND < 1.00	ND < 3.00	1.56	3.48
MW-13	02/28/2005	100.04	8.83	2.17	92.84	-	-	-	-	-	-
	06/06/2005		8.54	0.01	91.51	-	-	-	-	-	-
	09/08/2005		9.37	0.21	90.83	-	-	-	-	-	-
	12/29/2005		8.65	0.01	91.40	-	-	-	-	-	-

Table 1

HISTORICAL GROUNDWATER MONITORING SUMMARY

Former Mobil Station #17-EMW

304 Columbia Street

Brooklyn, NY

Well	Date	Casing Elevation	Depth to Water	Product Thickness	Adjusted Elevation	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Xylenes, Total (ug/L)	Total BTEX (ug/L)	MTBE (ug/L)
			NYSDEC TOGS 1.1.1 WQS			1	5	5	5	NS	10
MW-13	03/20/2006	100.04	6.67	0.01	93.38	-	-	-	-	-	-
(cont)	06/07/2006		7.61	-	92.43	-	-	-	-	-	-
	09/14/2006		7.34	0.02	92.72	-	-	-	-	-	-
	12/07/2006		7.71	0.15	92.44	-	-	-	-	-	-
	03/29/2007		8.53	-	91.51	76.5	ND < 5	ND < 5	ND < 5	76.5	9.3
	06/13/2007		7.55	-	92.49	56.1	2.6	172	56.9	287.6	11
	09/19/2007		8.53	0.02	91.53	-	-	-	-	-	-
	12/11/2007		9.30	0.02	90.76	-	-	-	-	-	-
	03/13/2008		8.58	-	91.46	179	6.1	303	74.7	562.8	13.3
	06/06/2008		8.70	-	91.34	245	10.2	354	95.8	705	20.8
	12/30/2008		8.37	-	91.67	226	20.3	394	136	776.3	12.3
	03/16/2009		9.76	-	90.28	270	22.8	423	135	850.8	11.9
	06/08/2009		8.24	-	91.80	68.6	6.2	129	36.8	240.6	11.7
	07/20/2009		8.31	-	91.73	39	7.9	300	88.6	435.5	15.9
	09/24/2009		9.01	-	91.03	115	4.1	295	44.1	458.2	10.8
	12/03/2009		8.96	-	91.08	219	7	295	53	574	13.6
	03/03/2010		7.90	-	92.14	31.8	2.3	109	18.5	161.6	4.8
	06/07/2010		8.33	-	91.71	21.2	1.7	149	19.9	191.8	18.6
	09/01/2010		9.44	-	90.60	541	120	884	1,490	3,035	16.9
	12/03/2010		9.13	-	90.91	321	114	685	1,240	2,360	ND < 5
	03/29/2011		7.90	-	92.14	6	ND < 1	8.7	5.2	19.9	3
	06/16/2011		5.30	-	94.74	31.5	2	62	34.4	129.9	10.5
	08/08/2011		9.04	-	91.00	212	40.6	260	284	796.6	3.1
	09/19/2011		7.36	-	92.68	12.3	2	174	57.5	245.8	1.3
	12/05/2011		8.25	-	91.79	20	1.8	110	44	175.8	3.4
	03/16/2012		9.44	-	90.60	194	56	505	294	1,049	1.71
	06/08/2012		8.62	-	91.42	135	38.6	331	235	739.6	2.74
	09/07/2012		8.92	-	91.12	178	39.2	421	237	875.2	ND < 1.00
	12/18/2012		9.09	-	90.95	308	84.5	663	452	1,508	2.82
	03/14/2013		8.92	-	91.12	586	114	590	948	2,238	6.10
	06/24/2013		7.74	-	92.30	117	38.6	544	399	1,099	2.43
	09/04/2013		8.94	0.03	91.12	-	-	-	-	-	-
	09/06/2013		9.06	0.17	91.11	-	-	-	-	-	-
	09/26/2013		9.16	0.01	90.89	395	77.9	515	458	1,446	3.87
	10/07/2013		9.21	-	90.83	-	-	-	-	-	-
	10/23/2013		9.45	-	90.59	-	-	-	-	-	-
	11/11/2013		9.86	-	90.18	-	-	-	-	-	-
	12/10/2013		10.02	-	90.02	767	126	744	1,240	2,877	13.7
	01/21/2014		9.19	-	90.85	-	-	-	-	-	-
	03/10/2014		COULD NOT GAUGE	-	-	250	53.8	294	461	1,059	2.51
	06/03/2014		8.26	-	91.78	92.1	29.0	235	383	739.1	1.52
	10/02/2014		9.48	-	90.56	434	119	744	1,290	2,587	1.21
	12/03/2014		8.84	-	91.20	395	118	755	1,000	2,268	ND < 1.00
	03/11/2015		8.30	-	91.74	129	69.7	804	1,040	2,043	2.82
	06/18/2015		8.67	0.05	91.41	-	-	-	-	-	-
MW-14	02/28/2005	100.04	12.87	-	87.17	4.2	0.61 J	1.7	6.7	13.21	2.5
	06/06/2005		13.02	-	87.02	12.6	1	2.4	9.3	25.3	ND < 1
	03/20/2006		13.03	0.50	87.39	-	-	-	-	-	-
	06/07/2006		8.19	0.07	91.90	-	-	-	-	-	-
	12/07/2006		13.30	4.75	90.30	-	-	-	-	-	-
	03/29/2007		10.52	-	89.52	118	4.8	1.4	11.3	135.5	ND < 1
	06/13/2007		8.38	-	91.66	125	5.6	5.4	41.1	177.1	ND < 1
	09/19/2007		10.08	-	89.96	121	5	4.1	31.3	161.4	ND < 1
	12/11/2007		10.95	0.05	89.13	-	-	-	-	-	-
	03/13/2008		9.73	-	90.31	66.7	2.7	0.76 J	4.6	74.76	ND < 1
	06/06/2008		10.05	-	89.99	95.5	3.6	1.3	5.8	106.2	ND < 1
	12/30/2008		9.59	-	90.45	85.3	2.5	0.51 J	2.1	90.41	ND < 1
	03/16/2009		10.44	-	89.60	101	4.1	0.77 J	4.3	110.17	ND < 1
	06/08/2009		9.46	-	90.58	54.8	2.3	1.2	4.2	62.5	ND < 1
	07/20/2009		9.30	-	90.74	51.6	1.3	0.58 J	2.3	55.78	ND < 1
	09/24/2009		10.00	-	90.04	102	3.8	0.90 J	5.9	112.6	ND < 1
	12/03/2009		9.81	-	90.23	147	4.3	1.1	4.6	157	ND < 1
	03/03/2010		8.90	-	91.14	13.5	ND < 1	ND < 1	ND < 1	13.5	ND < 1
	06/07/2010		9.31	-	90.73	50.3	0.95 J	0.32 J	1.2	52.77	ND < 1

Table 1

HISTORICAL GROUNDWATER MONITORING SUMMARY

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

Well	Date	Casing Elevation	Depth to Water	Product Thickness	Adjusted Elevation	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Xylenes, Total (ug/L)	Total BTEX (ug/L)	MTBE (ug/L)
			NYSDEC TOGS 1.1.1 WQS			1	5	5	5	NS	10
	09/01/2010	100.04	10.36	-	89.68	139	3.4	1.2	3.7	147.3	ND < 1
	12/03/2010		10.11	-	89.93	114	4	0.86 J	3.2	122.06	ND < 1
	03/29/2011		8.60	-	91.44	12.7	ND < 1	ND < 1	ND < 1	12.7	ND < 1
	06/16/2011		9.20	-	90.84	41.4	0.55 J	0.27 J	0.53 J	42.75	ND < 1
	08/08/2011		9.87	-	90.17	84.1	0.77 J	ND < 1	ND < 1	84.87	ND < 1
	09/19/2011		8.22	-	91.82	3.8	ND < 1	ND < 1	ND < 1	3.8	ND < 1
	12/05/2011		9.19	-	90.85	64	0.39	0.22	0.60	65.21	ND < 0.18
	03/16/2012		10.36	-	89.68	91	1.28	ND < 1	ND < 3	92.28	ND < 1
	06/08/2012		9.62	-	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	117	1.96	ND < 1.00	ND < 3.00	118.96	ND < 1.00
	12/18/2012		9.84	-	90.20	70.8	1.60	ND < 1.00	ND < 3.00	72.4	ND < 1.00
	03/14/2013		10.43	-	89.61	20.2	ND < 1.00	ND < 1.00	ND < 3.00	20.2	ND < 1.00
	06/24/2013		8.50	-	91.54	7.68	ND < 1.00	ND < 1.00	ND < 3.00	7.68	ND < 1.00
	09/04/2013		9.77	-	90.27	44.2	ND < 1.00	ND < 1.00	ND < 2.00	44.2	ND < 1.00
	09/06/2013		9.85	-	90.19	44.2	ND < 1.00	ND < 1.00	ND < 2.00	44.2	ND < 1.00
	12/10/2013		10.56	-	89.48	51.9	ND < 1.00	ND < 1.00	ND < 3.00	51.9	ND < 1.00
	01/21/2014		-	-	-	-	-	-	-	-	-
	03/10/2014		COULD NOT GAUGE	-	-	8.32	ND < 1.00	ND < 1.00	ND < 3.00	8.32	ND < 1.00
	06/03/2014		8.92	-	91.12	4.91	ND < 1.00	ND < 1.00	ND < 2.00	4.91	ND < 1.00
	10/02/2014		10.49	-	89.55	42.8	ND < 1.00	ND < 1.00	ND < 2.00	42.8	ND < 1.00
	12/03/2014		9.59	-	90.45	20.2	ND < 1.00	ND < 1.00	ND < 2.00	20.2	ND < 1.00
	03/11/2015		9.34	-	90.70	8.69	ND < 1.00	ND < 1.00	ND < 2.00	8.69	ND < 1.00
	06/18/2015		9.44	-	90.60	34.2	ND < 1.00	ND < 1.00	ND < 3.00	34.2	ND < 1.00
MW-15	09/27/2006	100.47	10.72	-	89.75	616	21.1	21.7	64.4	723.2	425
	12/07/2006		9.29	-	91.18	522	16.6	8.2	54.5	601.3	114
	03/29/2007		9.81	-	90.66	389	14	5.9	30.7	439.6	59.5
	06/13/2007		8.99	-	91.48	924	26.7	6	56.8	1,014	191
	09/19/2007		9.72	-	90.75	747	16.6	3.5	34.1	801.2	104
	12/11/2007		10.29	-	90.18	800	15.1	2.8 J	40	857.9	119
	03/13/2008		9.85	-	90.62	662	6.4	2.9 J	15.2	686.5	83.4
	06/06/2008		9.63	-	90.84	509	5.6	1.2	12.7	528.5	81.1
	12/30/2008		9.50	-	90.97	164	1.9	0.58 J	4.6	171.08	16.8
	03/16/2009		10.69	-	89.78	540	5.8	1.2	9.5	556.5	57.2
	06/08/2009		9.45	-	91.02	141	ND < 1	ND < 1	1	142	14.8
	07/20/2009		9.33	-	91.14	80.7	1.2	0.93 J	3.7	86.53	19.1
	09/24/2009		9.91	-	90.56	162	3.9	7.3	8.6	181.8	74.5
	12/03/2009		9.98	-	90.49	432	8.6	7.3	17.4	465.3	52.2
	03/03/2010		9.41	-	91.06	606	6.4	8.1	18.5	639	99.2
	06/07/2010		9.42	-	91.05	200	3.6	6.2	6.3	216.1	24.7
	09/01/2010		10.06	-	90.41	194	3.6	2.8	5.3	205.7	101
	12/03/2010		12.20	-	88.27	405	7.6	6.9	13.7	433.2	93.3
	03/29/2011		9.52	-	90.95	119	0.86 J	ND < 1	0.89 J	120.75	26.8
	06/16/2011		9.34	-	91.13	8	ND < 1	ND < 1	ND < 1	8	3.4
	08/08/2011		9.93	-	90.54	81.1	2.3	0.85 J	4.2	88.45	45.1
	09/19/2011		8.49	-	91.98	43.2	1.5	0.94 J	4.6	50.24	25.8
	12/05/2011		9.40	-	91.07	5	ND < 0.15	ND < 0.21	0.51	5.51	5.4
	03/16/2012		10.57	-	89.90	31	ND < 1	ND < 1	ND < 3	31	58
	06/08/2012		9.67	-	90.80	3.89	ND < 1.00	ND < 1.00	ND < 3.00	3.89	8.11
	09/07/2012		9.83	-	90.64	ND < 1.00	ND < 1.00	ND < 1.00	ND < 3.00	ND	10.2
	12/18/2012		9.99	-	90.48	ND < 1.00	ND < 1.00	ND < 1.00	ND < 3.00	ND	11.3
	03/14/2013		10.23	-	90.24	6.60	ND < 1.00	ND < 1.00	ND < 3.00	6.6	30.5
	06/24/2013		8.98	-	91.49	2.91	ND < 1.00	ND < 1.00	ND < 3.00	2.91	2.21
	09/06/2013		10.09	-	90.38	1.77	ND < 1.00	ND < 1.00	ND < 2.00	1.77	13.0
	12/10/2013		10.31	-	90.16	ND < 1.00	ND < 1.00	ND < 1.00	ND < 3.00	ND	18.0
	01/21/2014		-	-	-	-	-	-	-	-	-
	03/10/2014		COULD NOT GAUGE	-	-	ND < 1.00	ND < 1.00	ND < 1.00	ND < 3.00	-	13.0
	06/03/2014		9.70	-	90.77	1.06	ND < 1.00	ND < 1.00	ND < 2.00	1.06	3.54
	10/02/2014		10.62	-	89.85	ND < 1.00	ND < 1.00	ND < 1.00	ND < 2.00	ND	8.18
	12/03/2014		10.21	-	90.26	ND < 1.00	ND < 1.00	ND < 1.00	ND < 2.00	ND	4.11
	03/11/2015		10.33	-	90.14	ND < 1.00	ND < 1.00	ND < 1.00	ND < 2.00	ND	9.97
	06/18/2015		10.02	-	90.45	ND < 1.00	ND < 1.00	ND < 1.00	ND < 3.00	ND	6.61
MW-16	09/27/2006	100.42	11.90	-	88.52	1,600	159	1,220	2,520	5,499	2.3 J
	12/07/2006		18.97	8.72	87.99	-	-	-	-	-	-
	03/29/2007		11.36	-	89.06	2,320	87.1	430	1,110	3,947	ND < 20

Table 1

HISTORICAL GROUNDWATER MONITORING SUMMARY

Former Mobil Station #17-EMW

304 Columbia Street

Brooklyn, NY

Well	Date	Casing Elevation	Depth to Water	Product Thickness	Adjusted Elevation	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Xylenes, Total (ug/L)	Total BTEX (ug/L)	MTBE (ug/L)
			NYSDEC TOGS 1.1.1 WQS			1	5	5	5	NS	10
MW-16	06/13/2007	100.42	10.82	0.14	89.71	-	-	-	-	-	-
(cont)	09/19/2007		10.98	0.22	89.61	-	-	-	-	-	-
	12/11/2007		9.80	0.03	90.64	-	-	-	-	-	-
	03/13/2008		10.89	-	89.53	1,200	34.1	146	303	1,683	ND < 10
	06/06/2008		10.06	-	90.36	1,350	49.6	225	394	2,019	16.1
	12/30/2008		9.66	-	90.76	958	59.8	393	662	2,073	7.7
	03/16/2009		10.70	-	89.72	1,320	44	141	222	1,727	3.7
	06/08/2009		9.64	-	90.78	2,830	158	667	1,010	4,665	ND < 20
	07/20/2009		9.56	0.09	90.93	-	-	-	-	-	-
	09/24/2009		9.96	0.16	90.58	-	-	-	-	-	-
	12/03/2009		9.85	0.09	90.64	-	-	-	-	-	-
	03/03/2010		8.90	-	91.52	940	104	1,070	2,020	4,134	3.5 J
	06/07/2010		9.28	0.28	91.35	-	-	-	-	-	-
	09/01/2010		10.21	-	90.21	2,590	131	492	828	4,041	ND < 20
	12/03/2010		9.67	0.01	90.76	-	-	-	-	-	-
	03/29/2011		8.45	-	91.97	312	26.3	284	319	941.3	ND < 2.5
	06/16/2011		8.75	-	91.67	1,490	76.6	433	634	2,634	ND < 10
	08/08/2011		9.44	0.03	91.00	-	-	-	-	-	-
	09/19/2011		7.89	-	92.53	68.3	4.1	59.9	77.1	209.4	ND < 1
	12/05/2011		8.77	-	91.65	655	26	237	246	1,164	ND < 0.37
	03/16/2012		9.96	-	90.46	1,400	59	157	342	1,958	ND < 1
	06/08/2012		9.22	-	91.20	1,310	49.2	157	229	1,745	ND < 1.00
	09/07/2012		9.36	-	91.06	2,060	81.1	303	380	2,824	ND < 1.00
	12/18/2012		9.56	-	90.86	1,130	63.4	423	329	1,945	ND < 1.00
	03/14/2013		9.39	-	91.03	1,140	59.3	159	261	1,619	ND < 1.00
	06/24/2013		8.23	-	92.19	509	46.1	177	303	1,035	ND < 1.00
	09/04/2013		9.32	0.04	91.13	-	-	-	-	-	-
	09/06/2013		9.57	0.21	91.01	-	-	-	-	-	-
	09/26/2013		10.83	0.23	89.76	-	-	-	-	-	-
	10/23/2013		10.08	0.25	90.53	-	-	-	-	-	-
	11/11/2013		10.34	-	90.08	-	-	-	-	-	-
	12/10/2013		10.75	-	89.67	1,060	57.8	99.1	200	1,417	1.30
	01/21/2014		9.68	0.12	90.83	-	-	-	-	-	-
	03/10/2014		COULD NOT GAUGE	-	-	-	-	-	-	-	-
	06/03/2014		8.72	0.08	91.76	-	-	-	-	-	-
	10/02/2014		9.85	-	90.57	1,060	68.5	495	1,020	2,644	ND < 10.0
	12/03/2014		9.25	-	91.17	1,380	86.9	337	1,390	3,194	ND < 1.00
	03/11/2015		8.99	-	91.43	524	80.5	590	1,190	2,385	ND < 1.00
	06/18/2015		9.08	-	91.34	1,330	128	586	1,180	3,224	ND < 1.00
MW-17	09/28/2006	100.05	10.59	-	89.46	4.8	64.2	378	1,420	1,867	202
	12/07/2006		10.90	-	89.15	19.9	97.6	335	1,090	1,543	29.8
	03/29/2007		10.18	-	89.87	15.4	145	432	1,300	1,892	19.4
	06/13/2007		9.55	-	90.50	11.1	76.9	228	695	1,011	21.3
	09/19/2007		9.71	-	90.34	11.4	69.3	252	665	997.7	13.6
	12/11/2007		10.17	-	89.88	4.8	32.9	148	386	571.7	4.3
	03/13/2008		9.17	-	90.88	20.4	143	695	2,160	3,018	8.2
	06/06/2008		9.03	-	91.02	2.6	14.2	63.7	178	258.5	3.4
	12/30/2008		8.51	-	91.54	18.1	60.3	421	418	917.4	2.3
	03/16/2009		9.42	-	90.63	3.8	20.4	134	184	342.2	2.1
	06/08/2009		8.19	-	91.86	244	80.1	773	439	1,536	7.7
	07/20/2009		8.23	-	91.82	27.4	145	726	1,100	1,998	1.7
	09/24/2009		8.93	-	91.12	10.6	47.7	324	369	751.3	ND < 1
	12/03/2009		8.91	-	91.14	32.7	161	854	1,170	2,218	1.7 J
	03/03/2010		8.02	-	92.03	7.5	37.7	225	289	559.2	1.4 J
	06/07/2010		8.33	-	91.72	7.6	35	259	274	575.6	0.83 J
	09/01/2010		9.01	-	91.04	16.3	91.3	716	675	1,499	ND < 2
	12/03/2010		8.80	-	91.25	19.8	103	757	881	1,761	ND < 1
	03/29/2011		7.83	-	92.22	6.3	14.7	166	90.9	277.9	1.2 J
	06/16/2011		7.96	0.06	92.14	-	-	-	-	-	-
	08/08/2011		8.62	0.04	91.46	-	-	-	-	-	-
	09/19/2011		7.12	0.01	92.94	-	-	-	-	-	-
	12/05/2011		7.86	-	92.19	9.3	43	230	209	491.3	1
	03/16/2012		9.40	0.07	90.70	-	-	-	-	-	-
	06/08/2012		8.49	-	91.56	23.7	78.4	402	239	743.1	ND < 1.00

Table 1

HISTORICAL GROUNDWATER MONITORING SUMMARY

Former Mobil Station #17-EMW

304 Columbia Street

Brooklyn, NY

Well	Date	Casing Elevation	Depth to Water	Product Thickness	Adjusted Elevation	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Xylenes, Total (ug/L)	Total BTEX (ug/L)	MTBE (ug/L)
			NYSDEC TOGS 1.1.1 WQS			1	5	5	5	NS	10
MW-17	09/07/2012	100.05	8.49	-	91.56	24.6	89.0	279	304	696.6	ND < 1.00
(cont)	12/18/2012		8.62	-	91.43	18.8	72.5	275	332	698.3	ND < 1.00
	03/14/2013		8.37	-	91.68	3.85	21.2	80.2	69.1	174.35	1.40
	06/24/2013		7.41	-	92.64	6.01	31.1	112	101	250.11	1.02
	09/04/2013		8.75	0.05	91.34	-	-	-	-	-	-
	09/06/2013	100.05	9.74	0.04	90.34	-	-	-	-	-	-
	09/26/2013	100.05	7.94	0.04	92.14	4.58	21.3	84.9	63.5	174.28	ND < 1.00
	10/07/2013		7.93	-	92.12	-	-	-	-	-	-
	10/23/2013		9.06	-	90.99	-	-	-	-	-	-
	11/11/2013		9.52	-	90.53	-	-	-	-	-	-
	12/10/2013		9.45	-	90.60	10.2	80.4	562	719	1,372	ND < 1.00
	01/21/2014		8.75	-	91.30	-	-	-	-	-	-
	03/10/2014		COULD NOT GAUGE	-	-	-	-	-	-	-	-
	06/03/2014		7.86	0.01	92.20	16.1	98.6	288	412	814.7	ND < 1.00
	10/02/2014		8.92	-	91.13	32.5	232	1,230	1,500	2,995	ND < 1.00
	12/03/2014		8.21	-	91.84	27.6	151	1,030	1,220	2,429	ND < 1.00
	03/11/2015		7.81	-	92.24	10.2	77.4	757	796	1,641	ND < 1.00
	06/18/2015		8.09	-	91.96	25.2	167	1,080	1,240	2,512	ND < 1.00
MW-18	09/28/2006	101.41	12.54	-	88.87	1,470	137	499	1,160	3,266	5.8
	12/07/2006		12.76	-	88.65	2,490	210	518	1,820	5,038	ND < 10
	03/29/2007		12.33	-	89.08	2,190	170	510	1,100	3,970	ND < 20
	06/13/2007		11.10	-	90.31	2,400	296	1,040	3,360	7,096	ND < 10
	09/19/2007		12.02	-	89.39	1,820	114	397	951	3,282	ND < 2.5
	12/11/2007		13.40	-	88.01	1,670	63.6	241	439	2,414	ND < 5
	03/13/2008		13.12	-	88.29	1,770	94.2	399	649	2,912	ND < 10
	06/06/2008		13.24	-	88.17	2,410	156	746	1,220	4,532	ND < 10
	12/30/2008		12.58	-	88.83	1,970	80.4	319	620	2,989	ND < 5
	03/16/2009		12.85	-	88.56	1,850	79.7	254	417	2,601	ND < 5
	06/08/2009		12.51	-	88.90	1,680	79.8	302	480	2,542	ND < 10
	07/20/2009		12.65	-	88.76	1,570	83.7	301	537	2,492	ND < 10
	09/24/2009		12.96	-	88.45	1,010	48.8	131	363	1,553	ND < 1
	12/03/2009		12.76	-	88.65	1,380	57.2	355	720	2,512	ND < 5
	03/03/2010		11.90	-	89.51	1,790	80.6	400	548	2,819	ND < 10
	06/07/2010		12.47	-	88.94	1,630	103	502	548	2,783	ND < 5
	09/01/2010		12.83	-	88.58	2,580	102	347	637	3,666	ND < 20
	12/03/2010		12.87	-	88.54	1,020	39.4	119	175	1,353	ND < 10
	03/29/2011		10.46	-	90.95	746	34.7	137	163	1,081	ND < 5
	06/16/2011		11.00	-	90.41	2,180	123	548	738	3,589	ND < 10
	08/08/2011		10.71	-	90.70	2,440	104	261	374	3,179	ND < 10
	09/19/2011		10.34	-	91.07	1,200	64.8	318	425	2,008	ND < 5
	12/05/2011		9.90	-	91.51	1,620	65	287	345	2,317	ND < 0.92
	03/16/2012		10.66	-	90.75	1,740	101	1,310	1,510	4,661	ND < 1
	06/08/2012		9.83	-	91.58	153	11.9	109	137	410.9	ND < 1.00
	09/07/2012		10.05	-	91.36	1,070	53.8	451	337	1,912	ND < 1.00
	12/18/2012		10.18	-	91.23	944	52.9	160	315	1,472	ND < 1.00
	03/14/2013		9.95	-	91.46	780	31.3	89.2	137	1,038	ND < 1.00
	06/24/2013		8.85	-	92.56	382	26.5	97.3	188	693.8	ND < 1.00
	09/04/2013		10.13	-	91.28	1,150	87.8	371	522	2,131	ND < 1.00
	09/06/2013		10.66	-	90.75	1,150	87.8	371	522	2,131	ND < 1.00
	12/10/2013		11.01	-	90.40	820	55.1	122	176	1,173	ND < 1.00
	01/21/2014		-	-	-	-	-	-	-	-	-
	03/10/2014		COULD NOT GAUGE	-	-	897	70.6	230	216	1,414	ND < 1.00
	06/03/2014		9.45	-	91.96	282	48.4	209	248	787.4	ND < 1.00
	10/02/2014		10.62	-	90.79	858	65.1	175	175	1,273	ND < 10.0
	12/03/2014		10.06	-	91.35	1,300	102	330	404	2,136	ND < 1.00
	03/11/2015		9.63	-	91.78	1,220	104	520	376	2,220	ND < 1.00
	06/18/2015		9.76	-	91.65	774	74.8	268	427	1,544	ND < 1.00
MW-19	09/06/2013	NSD	9.41	-	-	39.3	15.8	171	58.3	284.4	ND < 1.00
	10/07/2013		9.58	-	-	-	-	-	-	-	-
	10/23/2013		9.89	-	-	-	-	-	-	-	-
	11/11/2013		10.42	-	-	-	-	-	-	-	-
	12/10/2013		10.29	-	-	57.5	18.1	148	56.2	279.8	4.75
	01/21/2014		9.49	-	-	-	-	-	-	-	-
	03/10/2014		COULD NOT GAUGE	-	-	67.1	8.28	245	58.0	378.38	2.75

Table 1

HISTORICAL GROUNDWATER MONITORING SUMMARY

Former Mobil Station #17-EMW

304 Columbia Street

Brooklyn, NY

Well	Date	Casing Elevation	Depth to Water	Product Thickness	Adjusted Elevation	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Xylenes, Total (ug/L)	Total BTEX (ug/L)	MTBE (ug/L)
NYSDEC TOGS 1.1.1 WQS						1	5	5	5	NS	10
MW-19	06/03/2014	NSD	8.58	-	-	35.7	4.06	126	36.2	201.96	ND < 1.00
(cont)	10/02/2014		9.92	-	-	68.9	12.9	183	40.5	305.3	ND < 10.0
	12/03/2014		9.15	-	-	57.7	11.3	168	46.4	283.4	ND < 1.00
	03/11/2015		8.95	-	-	28.8	6.76	102	32.0	169.56	ND < 1.00
	06/18/2015		9.08	-	-	63.6	9.92	72.6	34.5	180.62	2.40
MW-20	09/06/2013		9.34	-	-	44.5	3.65	44.6	15.4	108.15	29.2
	10/07/2013		9.58	-	-	-	-	-	-	-	-
	10/23/2013		9.82	-	-	-	-	-	-	-	-
	11/11/2013		10.20	-	-	-	-	-	-	-	-
	12/10/2013		10.24	-	-	145	2.62	89.1	21.1	257.82	47.4
	01/21/2014		9.35	-	-	-	-	-	-	-	-
	03/10/2014		COULD NOT GAUGE	-	-	19.8	ND < 1.00	2.63	ND < 3.00	22.43	10.5
	06/03/2014		8.38	-	-	3.99	ND < 1.00	ND < 1.00	ND < 2.00	3.99	2.97
	10/02/2014		9.83	-	-	5.98	ND < 1.00	2.57	ND < 2.00	8.55	8.10
	12/03/2014		9.11	-	-	10.9	ND < 1.00	7.94	4.12	22.96	6.57
	03/11/2015	NSD	8.89	-	-	50.1	1.34	5.24	3.19	59.87	14.5
	06/18/2015	NSD	9.04	-	-	4.01	ND < 1.00	ND < 1.00	ND < 3.00	4.01	3.64

NOTES:

TOGS 1.1.1 WQS = Ambient Water Quality Standards Guidance Values and Groundwater Effluent Limitations, amended April 2000

- = Not analyzed or measured

BOLD = Value exceeds regulatory limits

BTEX = Benzene, Toluene, Ethylbenzene, and Total Xylenes

CNL = Could Not Locate

DRY = Insufficient water for sampling

ft = Feet

J = Estimated value

mg/L = Milligrams/Liter

MTBE = Methyl tertiary butyl ether

<# = Not detected. Where an analyte is not detected, a reporting limit is given.

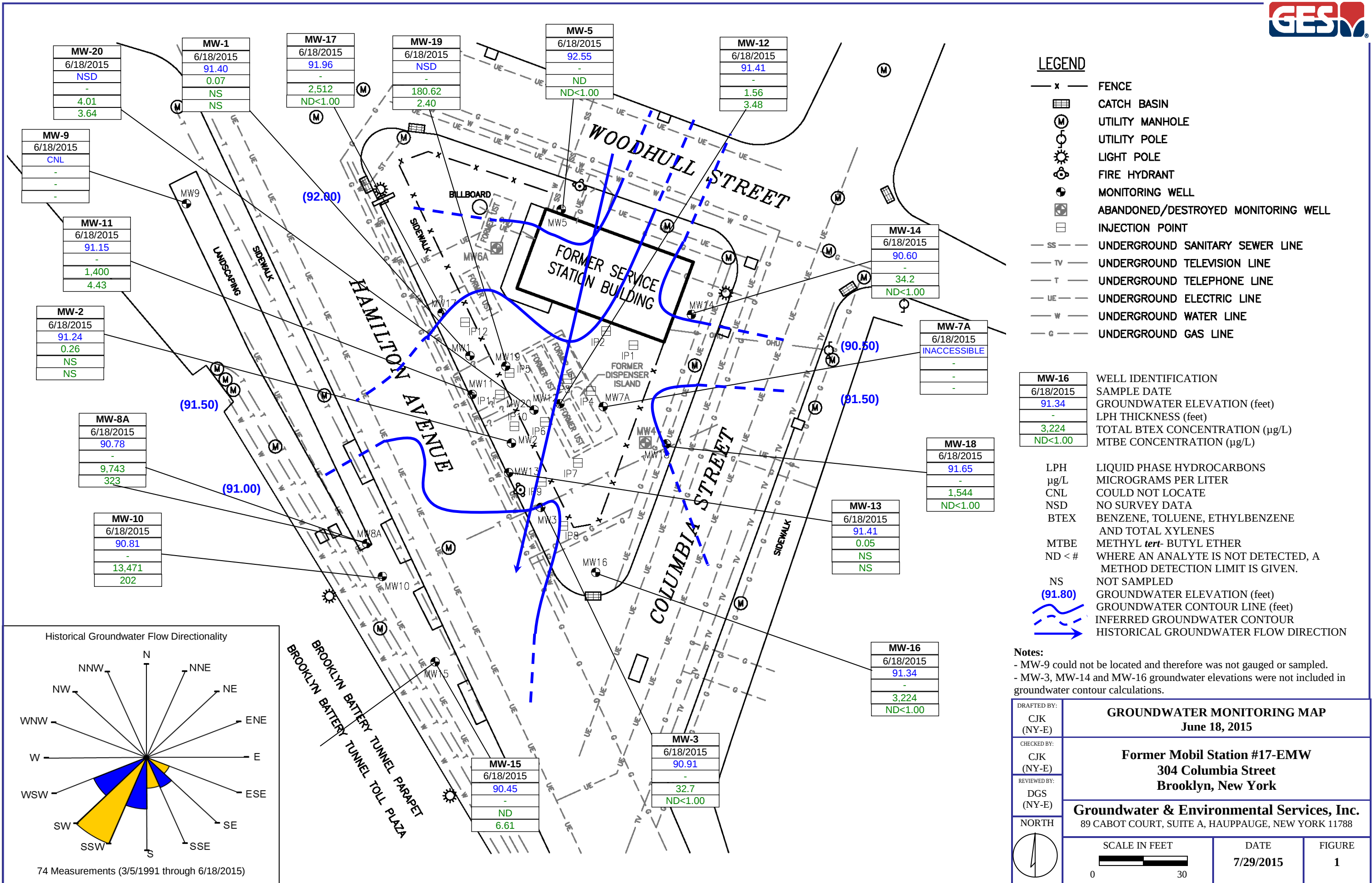
NS = No Standard

NSD = No Survey Data

NYSDEC = New York State Department of Environmental Remediation

µg/L = Micrograms per liter

FIGURE



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 <i>Commissioner Policy 51/ Soil Cleanup Guidance</i> , 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
mg/L :	Milligrams per liter
MNA :	Monitored Natural Attenuation
MPE :	Multi-Phase Extraction
MTBE :	Methyl Tertiary Butyl Ether
mV :	Millivolts
MW :	Monitoring Well
ND :	Not Detected
NYCDEP :	New York City Department of Environmental Protection
NYSDEC :	New York State Department of Environmental Conservation
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 :	<i>Spills Technology and Remediation Series #1</i> , amended August 1992
STIP :	Stipulation Agreement.
SVE :	Soil Vapor Extraction
SVOCs :	Semi Volatile Organic Compounds
TAGM :	<i>Technical and Administrative Guidance Memorandum (#4046): Determination of Soil Cleanup Objectives</i> , amended January 24, 1994
TOC :	Top of Casing



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 <i>Technical and Operation Guidance Series 1.1.1, Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations</i> and the April 2000 <i>Addendum</i> .

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.

Information pertaining to the active spill, along with historical investigation and remedial activities conducted at the site, has been summarized below.

- July 1989 – A tank removal and replacement event was conducted on behalf of Mobil Oil Corporation. Fifteen (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 excavated and disposed at a state-certified landfill.
- August 1, 1989 – Spill #89-04339 was assigned to the site by the NYSDEC.
- July 25, 1990 – A site assessment was conducted at the site. Five (5) monitoring wells were installed (W-1 through W-5). LPH was present in wells W-2 and W-3.
- December 1996 – A subsurface investigation was conducted prior to site divestment, and included the installation of three (3) direct-push soil borings.
- April 22 through 25, 1997 – Site divestment activities were conducted and 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 abandoned double-walled fiberglass 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 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 (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 (B-1 through B-5) to varying depths between 8 and 34 feet below ground surface (bgs).
- May 10 and 15, 2002 – A *Site Investigation Work Plan* was submitted for proposed delineation and included the installation of ten (10) on-site soil borings and four (4) off-site soil borings (along the north side of Hamilton Avenue) using a direct-push drill rig to 16 feet bgs with groundwater sampling.
- June 24, 2002 – The NYSDEC approved the *Site Investigation Work Plan* and proposed schedules submitted on May 10 and 15, 2002. The NYSDEC requested four (4) additional soil borings along Columbia Street and two additional soil borings along Woodhull Street. The NYSDEC also requested a Sensitive Receptor Survey (SRS) and UST investigation of the former tank field to evaluate the existence and/or proper abandonment of 1,000-gallon USTs from 1997.
- July 22 through 26, 2002 – A subsurface investigation was conducted and included the installation of six (6) on-site soil borings (SB-1, SB-2, SB-4, SB-7, SB-8, and SB-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 – NYSDEC and ExxonMobil visited the site to discuss proposed monitoring well locations.
- February 21, 2003 – A revised proposed monitoring well/soil boring location map was submitted to the NYSDEC via email in accordance with site discussions on February 10, 2003.
- March 20, 2003 – A letter was received from the NYSDEC to ExxonMobil approving the on- and off-site boring and monitoring well locations submitted on the February 21, 2003 revised map.
- May 12, 2003 – A subsurface investigation was conducted which included the installation of five (5) monitoring wells (MW-6A, MW-7A, MW-8A, MW-9 and MW-10).
- 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 of the pilot test and the 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 investigation was 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 (IP-1 through IP-12).
- 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-site areas 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 catalyst and 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.
- July 25, 2013 – A *Surfactant Injection and Well Installation Work Plan* was submitted to the NYSDEC detailing a proposed plan to conduct on-site surfactant injection/extraction activities to reduce the presence of liquid-phase hydrocarbons (LPH) in the vicinity of the western property boundary.
- July 29, 2013 – GES received approval of the July 2013 *Surfactant Injection and Well Installation Work Plan*.
- August 2, 2013 – An Underground Injection Control (UIC) Notification letter was submitted to the U.S. Environmental Protection Agency (EPA) requesting permission to conduct remedial activities at the Site involving the injection of surfactant solution into the subsurface. A copy of the letter was forwarded to the NYSDEC.
- August 29 and September 4, 2013 – Well installation activities were conducted which included the installation of two (2) monitoring wells (MW-19 and MW-20) on the west-central portion of the Site. The wells were installed in accordance with the July 2013 *Surfactant Injection and Well Installation Work Plan*.
- October 7 through 11, 2013 – A surfactant injection and extraction event was conducted at the Site to reduce the presence of LPH along the western property boundary. On October 7, 2013, 750 gallons of surfactant solution were injected into monitoring wells MW-1, MW-2, MW-11, MW-17, MW-19 and MW-20. Between October 8 and 11 of 2013, a total of 1,022 gallons of fluids were extracted from the same monitoring wells.
- October 15, 2013 – A *Monitoring Well Installation Report* was submitted to the NYSDEC detailing the August and September 2013 well installation activities.



- November 11 through 14, 2013 – A surfactant injection and extraction event was conducted at the Site. On November 11, 2013, a total of 500 gallons of surfactant solution was injected into monitoring wells MW-1, MW-2, MW-13 and MW-16. Between November 12 and 14 of 2013, a total of 1,008 gallons of fluids were extracted from the same monitoring wells.
- January 21, 2014 – Conducted post-surfactant injection groundwater monitoring activities which included the gauging of nine (9) monitoring wells (MW-1 through MW-3, MW-11, MW-13, MW-16, MW-17, MW-19 and MW-20). Monitoring well MW-12 was not gauged as it was inaccessible. LPH was detected in two (2) monitoring wells (MW-1 and MW-16).
- September 8 through 12, 2014 - Conducted a Surfactant Enhanced Groundwater Extraction Event which included the injection of approximately 500 gallons of surfactant into monitoring wells MW-1, MW-2, MW-11, MW-13, MW-16 and MW-17 on September 8, 2014 and the extraction of approximately 1,059 gallons of surfactant/groundwater mixture from these wells between September 9 through 12, 2014.
- December 8 through 12, 2014 – Conducted a Surfactant Enhanced Groundwater Extraction Event which included the injection of approximately 500 gallons of surfactant into monitoring wells MW-1, MW-2, MW-11, MW-13, MW-16 and MW-17 on December 8, 2014 and the extraction of approximately 1,450 gallons of surfactant/groundwater mixture from these wells between December 9 through 12, 2014.

ATTACHMENT C

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Nashville

2960 Foster Creighton Drive

Nashville, TN 37204

Tel: (615)726-0177

TestAmerica Job ID: 490-81034-1

TestAmerica SDG: 304 Columbia St., Brooklyn, NY

Client Project/Site: EM 17-EMW

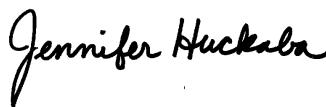
For:

Groundwater & Environmental Services Inc

89A Cabot Court

Hauppauge, New York 11788

Attn: GES, Inc.



Authorized for release by:

6/29/2015 3:18:58 PM

Jennifer Huckaba, Project Manager II

(615)301-5042

jennifer.huckaba@testamericainc.com

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

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

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



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Sample Summary

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

TestAmerica Job ID: 490-81034-1
SDG: 304 Columbia St., Brooklyn, NY

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
490-81034-1	MW-3	Ground Water	06/18/15 11:15	06/19/15 09:00
490-81034-2	MW-5	Ground Water	06/18/15 10:25	06/19/15 09:00
490-81034-3	MW-8A	Ground Water	06/18/15 11:40	06/19/15 09:00
490-81034-4	MW-10	Ground Water	06/18/15 11:15	06/19/15 09:00
490-81034-5	MW-11	Ground Water	06/18/15 09:45	06/19/15 09:00
490-81034-6	MW-12	Ground Water	06/18/15 10:20	06/19/15 09:00
490-81034-7	MW-14	Ground Water	06/18/15 09:05	06/19/15 09:00
490-81034-8	MW-15	Ground Water	06/18/15 10:50	06/19/15 09:00
490-81034-9	MW-16	Ground Water	06/18/15 10:00	06/19/15 09:00
490-81034-10	MW-17	Ground Water	06/18/15 08:58	06/19/15 09:00
490-81034-11	MW-18	Ground Water	06/18/15 09:35	06/19/15 09:00
490-81034-12	MW-19	Ground Water	06/18/15 10:00	06/19/15 09:00
490-81034-13	MW-20	Ground Water	06/18/15 10:10	06/19/15 09:00
490-81034-14	Trip Blank	Water	06/18/15 01:00	06/19/15 09:00

Case Narrative

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

TestAmerica Job ID: 490-81034-1
SDG: 304 Columbia St., Brooklyn, NY

Job ID: 490-81034-1

Laboratory: TestAmerica Nashville

Narrative

Job Narrative 490-81034-1

Comments

No additional comments.

Receipt

The samples were received on 6/19/2015 9:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.7° C.

GC/MS VOA

Method(s) 8260C: Surrogate recovery for the following samples was outside control limits: MW-8A (490-81034-3), MW-10 (490-81034-4) and MW-18 (490-81034-11). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed at the 1x level.

Method(s) 8260C: The following samples were collected in properly preserved vials for analysis of volatile organic compounds (VOCs). However, the pH was outside the required criteria when verified by the laboratory, and corrective action was not possible: MW-8A (490-81034-3) and MW-10 (490-81034-4).

Method(s) 8260C: Surrogate recovery for the following sample was outside control limits: MW-19 (490-81034-12). Evidence of matrix interference is present; therefore, a third re-analysis was not performed.

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

VOA Prep

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

The laboratory is only responsible for the certified testing and is not responsible for the sample integrity prior to laboratory receipt.

Definitions/Glossary

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

TestAmerica Job ID: 490-81034-1
SDG: 304 Columbia St., Brooklyn, NY

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

Client Sample Results

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

TestAmerica Job ID: 490-81034-1
SDG: 304 Columbia St., Brooklyn, NY

Client Sample ID: MW-3
Date Collected: 06/18/15 11:15
Date Received: 06/19/15 09:00

Lab Sample ID: 490-81034-1
Matrix: Ground Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.00		ug/L			06/23/15 04:05	1
Toluene	1.12		1.00		ug/L			06/23/15 04:05	1
Ethylbenzene	5.18		1.00		ug/L			06/23/15 04:05	1
Xylenes, Total	26.4		3.00		ug/L			06/23/15 04:05	1
Methyl tert-butyl ether	ND		1.00		ug/L			06/23/15 04:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	108		70 - 130		06/23/15 04:05	1
4-Bromofluorobenzene (Surr)	97		70 - 130		06/23/15 04:05	1
Dibromofluoromethane (Surr)	101		70 - 130		06/23/15 04:05	1
Toluene-d8 (Surr)	98		70 - 130		06/23/15 04:05	1

Client Sample Results

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

TestAmerica Job ID: 490-81034-1
SDG: 304 Columbia St., Brooklyn, NY

Client Sample ID: MW-5
Date Collected: 06/18/15 10:25
Date Received: 06/19/15 09:00

Lab Sample ID: 490-81034-2
Matrix: Ground Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.00		ug/L			06/23/15 04:31	1
Toluene	ND		1.00		ug/L			06/23/15 04:31	1
Ethylbenzene	ND		1.00		ug/L			06/23/15 04:31	1
Xylenes, Total	ND		3.00		ug/L			06/23/15 04:31	1
Methyl tert-butyl ether	ND		1.00		ug/L			06/23/15 04:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		70 - 130		06/23/15 04:31	1
4-Bromofluorobenzene (Surr)	96		70 - 130		06/23/15 04:31	1
Dibromofluoromethane (Surr)	100		70 - 130		06/23/15 04:31	1
Toluene-d8 (Surr)	97		70 - 130		06/23/15 04:31	1

Client Sample Results

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

TestAmerica Job ID: 490-81034-1
SDG: 304 Columbia St., Brooklyn, NY

Client Sample ID: MW-8A

Date Collected: 06/18/15 11:40

Date Received: 06/19/15 09:00

Lab Sample ID: 490-81034-3

Matrix: Ground Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1900		50.0		ug/L			06/23/15 21:06	50
Toluene	303		1.00		ug/L			06/23/15 04:57	1
Ethylbenzene	1690		50.0		ug/L			06/23/15 21:06	50
Xylenes, Total	5850		150		ug/L			06/23/15 21:06	50
Methyl tert-butyl ether	323		1.00		ug/L			06/23/15 04:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		70 - 130		06/23/15 04:57	1
1,2-Dichloroethane-d4 (Surr)	104		70 - 130		06/23/15 21:06	50
4-Bromofluorobenzene (Surr)	105		70 - 130		06/23/15 04:57	1
4-Bromofluorobenzene (Surr)	100		70 - 130		06/23/15 21:06	50
Dibromofluoromethane (Surr)	99		70 - 130		06/23/15 04:57	1
Dibromofluoromethane (Surr)	101		70 - 130		06/23/15 21:06	50
Toluene-d8 (Surr)	135	X	70 - 130		06/23/15 04:57	1
Toluene-d8 (Surr)	98		70 - 130		06/23/15 21:06	50

Client Sample Results

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

TestAmerica Job ID: 490-81034-1
SDG: 304 Columbia St., Brooklyn, NY

Client Sample ID: MW-10

Date Collected: 06/18/15 11:15

Date Received: 06/19/15 09:00

Lab Sample ID: 490-81034-4

Matrix: Ground Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	5580		50.0		ug/L			06/23/15 21:33	50
Toluene	631		50.0		ug/L			06/23/15 21:33	50
Ethylbenzene	1780		50.0		ug/L			06/23/15 21:33	50
Xylenes, Total	5480		150		ug/L			06/23/15 21:33	50
Methyl tert-butyl ether	202		1.00		ug/L			06/23/15 05:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	93		70 - 130		06/23/15 05:23	1
1,2-Dichloroethane-d4 (Surr)	106		70 - 130		06/23/15 21:33	50
4-Bromofluorobenzene (Surr)	104		70 - 130		06/23/15 05:23	1
4-Bromofluorobenzene (Surr)	98		70 - 130		06/23/15 21:33	50
Dibromofluoromethane (Surr)	99		70 - 130		06/23/15 05:23	1
Dibromofluoromethane (Surr)	102		70 - 130		06/23/15 21:33	50
Toluene-d8 (Surr)	131	X	70 - 130		06/23/15 05:23	1
Toluene-d8 (Surr)	98		70 - 130		06/23/15 21:33	50

Client Sample Results

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

TestAmerica Job ID: 490-81034-1
SDG: 304 Columbia St., Brooklyn, NY

Client Sample ID: MW-11

Date Collected: 06/18/15 09:45

Date Received: 06/19/15 09:00

Lab Sample ID: 490-81034-5

Matrix: Ground Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	246		10.0		ug/L			06/23/15 18:55	10
Toluene	63.3		1.00		ug/L			06/23/15 05:50	1
Ethylbenzene	540		10.0		ug/L			06/23/15 18:55	10
Xylenes, Total	551		30.0		ug/L			06/23/15 18:55	10
Methyl tert-butyl ether	4.43		1.00		ug/L			06/23/15 05:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	95		70 - 130		06/23/15 05:50	1
1,2-Dichloroethane-d4 (Surr)	104		70 - 130		06/23/15 18:55	10
4-Bromofluorobenzene (Surr)	97		70 - 130		06/23/15 05:50	1
4-Bromofluorobenzene (Surr)	98		70 - 130		06/23/15 18:55	10
Dibromofluoromethane (Surr)	99		70 - 130		06/23/15 05:50	1
Dibromofluoromethane (Surr)	101		70 - 130		06/23/15 18:55	10
Toluene-d8 (Surr)	103		70 - 130		06/23/15 05:50	1
Toluene-d8 (Surr)	97		70 - 130		06/23/15 18:55	10

Client Sample Results

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

TestAmerica Job ID: 490-81034-1
SDG: 304 Columbia St., Brooklyn, NY

Client Sample ID: MW-12

Date Collected: 06/18/15 10:20

Date Received: 06/19/15 09:00

Lab Sample ID: 490-81034-6

Matrix: Ground Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.56		1.00		ug/L			06/23/15 17:10	1
Toluene	ND		1.00		ug/L			06/23/15 17:10	1
Ethylbenzene	ND		1.00		ug/L			06/23/15 17:10	1
Xylenes, Total	ND		3.00		ug/L			06/23/15 17:10	1
Methyl tert-butyl ether	3.48		1.00		ug/L			06/23/15 06:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		70 - 130		06/23/15 06:16	1
1,2-Dichloroethane-d4 (Surr)	101		70 - 130		06/23/15 17:10	1
4-Bromofluorobenzene (Surr)	96		70 - 130		06/23/15 06:16	1
4-Bromofluorobenzene (Surr)	98		70 - 130		06/23/15 17:10	1
Dibromofluoromethane (Surr)	100		70 - 130		06/23/15 06:16	1
Dibromofluoromethane (Surr)	100		70 - 130		06/23/15 17:10	1
Toluene-d8 (Surr)	100		70 - 130		06/23/15 06:16	1
Toluene-d8 (Surr)	97		70 - 130		06/23/15 17:10	1

Client Sample Results

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

TestAmerica Job ID: 490-81034-1
SDG: 304 Columbia St., Brooklyn, NY

Client Sample ID: MW-14

Date Collected: 06/18/15 09:05

Date Received: 06/19/15 09:00

Lab Sample ID: 490-81034-7

Matrix: Ground Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	34.2		1.00		ug/L			06/23/15 06:42	1
Toluene	ND		1.00		ug/L			06/23/15 06:42	1
Ethylbenzene	ND		1.00		ug/L			06/23/15 06:42	1
Xylenes, Total	ND		3.00		ug/L			06/23/15 06:42	1
Methyl tert-butyl ether	ND		1.00		ug/L			06/23/15 06:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		70 - 130		06/23/15 06:42	1
4-Bromofluorobenzene (Surr)	98		70 - 130		06/23/15 06:42	1
Dibromofluoromethane (Surr)	99		70 - 130		06/23/15 06:42	1
Toluene-d8 (Surr)	98		70 - 130		06/23/15 06:42	1

Client Sample Results

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

TestAmerica Job ID: 490-81034-1
SDG: 304 Columbia St., Brooklyn, NY

Client Sample ID: MW-15

Date Collected: 06/18/15 10:50

Date Received: 06/19/15 09:00

Lab Sample ID: 490-81034-8

Matrix: Ground Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.00		ug/L			06/23/15 07:09	1
Toluene	ND		1.00		ug/L			06/23/15 07:09	1
Ethylbenzene	ND		1.00		ug/L			06/23/15 07:09	1
Xylenes, Total	ND		3.00		ug/L			06/23/15 07:09	1
Methyl tert-butyl ether	6.61		1.00		ug/L			06/23/15 07:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		70 - 130		06/23/15 07:09	1
4-Bromofluorobenzene (Surr)	98		70 - 130		06/23/15 07:09	1
Dibromofluoromethane (Surr)	101		70 - 130		06/23/15 07:09	1
Toluene-d8 (Surr)	97		70 - 130		06/23/15 07:09	1

Client Sample Results

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

TestAmerica Job ID: 490-81034-1
SDG: 304 Columbia St., Brooklyn, NY

Client Sample ID: MW-16

Date Collected: 06/18/15 10:00

Date Received: 06/19/15 09:00

Lab Sample ID: 490-81034-9

Matrix: Ground Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1330		10.0		ug/L			06/23/15 19:21	10
Toluene	128		1.00		ug/L			06/23/15 07:35	1
Ethylbenzene	586		10.0		ug/L			06/23/15 19:21	10
Xylenes, Total	1180		30.0		ug/L			06/23/15 19:21	10
Methyl tert-butyl ether	ND		1.00		ug/L			06/23/15 07:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	91		70 - 130		06/23/15 07:35	1
1,2-Dichloroethane-d4 (Surr)	95		70 - 130		06/23/15 19:21	10
4-Bromofluorobenzene (Surr)	101		70 - 130		06/23/15 07:35	1
4-Bromofluorobenzene (Surr)	99		70 - 130		06/23/15 19:21	10
Dibromofluoromethane (Surr)	101		70 - 130		06/23/15 07:35	1
Dibromofluoromethane (Surr)	101		70 - 130		06/23/15 19:21	10
Toluene-d8 (Surr)	106		70 - 130		06/23/15 07:35	1
Toluene-d8 (Surr)	99		70 - 130		06/23/15 19:21	10

Client Sample Results

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

TestAmerica Job ID: 490-81034-1
SDG: 304 Columbia St., Brooklyn, NY

Client Sample ID: MW-17

Date Collected: 06/18/15 08:58

Date Received: 06/19/15 09:00

Lab Sample ID: 490-81034-10

Matrix: Ground Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	25.2		1.00		ug/L			06/23/15 08:01	1
Toluene	167		1.00		ug/L			06/23/15 08:01	1
Ethylbenzene	1080		20.0		ug/L			06/23/15 20:14	20
Xylenes, Total	1240		60.0		ug/L			06/23/15 20:14	20
Methyl tert-butyl ether	ND		1.00		ug/L			06/23/15 08:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		70 - 130		06/23/15 08:01	1
1,2-Dichloroethane-d4 (Surr)	102		70 - 130		06/23/15 20:14	20
4-Bromofluorobenzene (Surr)	99		70 - 130		06/23/15 08:01	1
4-Bromofluorobenzene (Surr)	99		70 - 130		06/23/15 20:14	20
Dibromofluoromethane (Surr)	100		70 - 130		06/23/15 08:01	1
Dibromofluoromethane (Surr)	100		70 - 130		06/23/15 20:14	20
Toluene-d8 (Surr)	111		70 - 130		06/23/15 08:01	1
Toluene-d8 (Surr)	98		70 - 130		06/23/15 20:14	20

Client Sample Results

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

TestAmerica Job ID: 490-81034-1
SDG: 304 Columbia St., Brooklyn, NY

Client Sample ID: MW-18

Date Collected: 06/18/15 09:35

Date Received: 06/19/15 09:00

Lab Sample ID: 490-81034-11

Matrix: Ground Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	774		10.0		ug/L			06/23/15 19:48	10
Toluene	74.8		1.00		ug/L			06/23/15 08:28	1
Ethylbenzene	268		10.0		ug/L			06/23/15 19:48	10
Xylenes, Total	427		30.0		ug/L			06/23/15 19:48	10
Methyl tert-butyl ether	ND		1.00		ug/L			06/23/15 08:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		70 - 130		06/23/15 08:28	1
1,2-Dichloroethane-d4 (Surr)	93		70 - 130		06/23/15 19:48	10
4-Bromofluorobenzene (Surr)	111		70 - 130		06/23/15 08:28	1
4-Bromofluorobenzene (Surr)	99		70 - 130		06/23/15 19:48	10
Dibromofluoromethane (Surr)	101		70 - 130		06/23/15 08:28	1
Dibromofluoromethane (Surr)	100		70 - 130		06/23/15 19:48	10
Toluene-d8 (Surr)	143	X	70 - 130		06/23/15 08:28	1
Toluene-d8 (Surr)	98		70 - 130		06/23/15 19:48	10

Client Sample Results

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

TestAmerica Job ID: 490-81034-1
SDG: 304 Columbia St., Brooklyn, NY

Client Sample ID: MW-19

Date Collected: 06/18/15 10:00

Date Received: 06/19/15 09:00

Lab Sample ID: 490-81034-12

Matrix: Ground Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	63.6		1.00		ug/L			06/23/15 18:03	1
Toluene	9.92		1.00		ug/L			06/23/15 18:03	1
Ethylbenzene	72.6		1.00		ug/L			06/23/15 18:03	1
Xylenes, Total	34.5		3.00		ug/L			06/23/15 18:03	1
Methyl tert-butyl ether	2.40		1.00		ug/L			06/23/15 08:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	92		70 - 130		06/23/15 08:54	1
1,2-Dichloroethane-d4 (Surr)	85		70 - 130		06/23/15 18:03	1
4-Bromofluorobenzene (Surr)	104		70 - 130		06/23/15 08:54	1
4-Bromofluorobenzene (Surr)	108		70 - 130		06/23/15 18:03	1
Dibromofluoromethane (Surr)	100		70 - 130		06/23/15 08:54	1
Dibromofluoromethane (Surr)	101		70 - 130		06/23/15 18:03	1
Toluene-d8 (Surr)	135	X	70 - 130		06/23/15 08:54	1
Toluene-d8 (Surr)	147	X	70 - 130		06/23/15 18:03	1

Client Sample Results

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

TestAmerica Job ID: 490-81034-1
SDG: 304 Columbia St., Brooklyn, NY

Client Sample ID: MW-20
Date Collected: 06/18/15 10:10
Date Received: 06/19/15 09:00

Lab Sample ID: 490-81034-13
Matrix: Ground Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	4.01		1.00		ug/L			06/23/15 18:29	1
Toluene	ND		1.00		ug/L			06/23/15 18:29	1
Ethylbenzene	ND		1.00		ug/L			06/23/15 18:29	1
Xylenes, Total	ND		3.00		ug/L			06/23/15 18:29	1
Methyl tert-butyl ether	3.64		1.00		ug/L			06/23/15 09:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		70 - 130		06/23/15 09:20	1
1,2-Dichloroethane-d4 (Surr)	100		70 - 130		06/23/15 18:29	1
4-Bromofluorobenzene (Surr)	98		70 - 130		06/23/15 09:20	1
4-Bromofluorobenzene (Surr)	96		70 - 130		06/23/15 18:29	1
Dibromofluoromethane (Surr)	100		70 - 130		06/23/15 09:20	1
Dibromofluoromethane (Surr)	99		70 - 130		06/23/15 18:29	1
Toluene-d8 (Surr)	98		70 - 130		06/23/15 09:20	1
Toluene-d8 (Surr)	98		70 - 130		06/23/15 18:29	1

Client Sample Results

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

TestAmerica Job ID: 490-81034-1
SDG: 304 Columbia St., Brooklyn, NY

Client Sample ID: Trip Blank

Date Collected: 06/18/15 01:00

Date Received: 06/19/15 09:00

Lab Sample ID: 490-81034-14

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.00		ug/L			06/23/15 03:38	1
Toluene	ND		1.00		ug/L			06/23/15 03:38	1
Ethylbenzene	ND		1.00		ug/L			06/23/15 03:38	1
Xylenes, Total	ND		3.00		ug/L			06/23/15 03:38	1
Methyl tert-butyl ether	ND		1.00		ug/L			06/23/15 03:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		70 - 130		06/23/15 03:38	1
4-Bromofluorobenzene (Surr)	97		70 - 130		06/23/15 03:38	1
Dibromofluoromethane (Surr)	100		70 - 130		06/23/15 03:38	1
Toluene-d8 (Surr)	97		70 - 130		06/23/15 03:38	1

QC Sample Results

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

TestAmerica Job ID: 490-81034-1
SDG: 304 Columbia St., Brooklyn, NY

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 490-258445/7

Matrix: Water

Analysis Batch: 258445

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			06/23/15 03:12	1
Toluene	ND		1.00		ug/L			06/23/15 03:12	1
Ethylbenzene	ND		1.00		ug/L			06/23/15 03:12	1
Xylenes, Total	ND		3.00		ug/L			06/23/15 03:12	1
Methyl tert-butyl ether	ND		1.00		ug/L			06/23/15 03:12	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		70 - 130		06/23/15 03:12	1
4-Bromofluorobenzene (Surr)	97		70 - 130		06/23/15 03:12	1
Dibromofluoromethane (Surr)	101		70 - 130		06/23/15 03:12	1
Toluene-d8 (Surr)	98		70 - 130		06/23/15 03:12	1

Lab Sample ID: LCS 490-258445/3

Matrix: Water

Analysis Batch: 258445

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	56.54		ug/L		113	80 - 121
Toluene	50.0	58.22		ug/L		116	80 - 126
Ethylbenzene	50.0	57.48		ug/L		115	80 - 130
Xylenes, Total	150	170.1		ug/L		113	80 - 132
Methyl tert-butyl ether	50.0	57.68		ug/L		115	72 - 133

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	106		70 - 130
4-Bromofluorobenzene (Surr)	96		70 - 130
Dibromofluoromethane (Surr)	100		70 - 130
Toluene-d8 (Surr)	98		70 - 130

Lab Sample ID: LCSD 490-258445/4

Matrix: Water

Analysis Batch: 258445

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	54.69		ug/L		109	80 - 121	3	17
Toluene	50.0	56.45		ug/L		113	80 - 126	3	15
Ethylbenzene	50.0	55.78		ug/L		112	80 - 130	3	15
Xylenes, Total	150	164.7		ug/L		110	80 - 132	3	15
Methyl tert-butyl ether	50.0	55.31		ug/L		111	72 - 133	4	16

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	105		70 - 130
4-Bromofluorobenzene (Surr)	97		70 - 130
Dibromofluoromethane (Surr)	99		70 - 130
Toluene-d8 (Surr)	98		70 - 130

TestAmerica Nashville

QC Sample Results

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

TestAmerica Job ID: 490-81034-1
SDG: 304 Columbia St., Brooklyn, NY

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

Lab Sample ID: 490-81034-2 MS

Matrix: Ground Water

Analysis Batch: 258445

Client Sample ID: MW-5

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	ND		50.0	56.77		ug/L		114	75 - 133
Toluene	ND		50.0	58.08		ug/L		116	75 - 136
Ethylbenzene	ND		50.0	58.15		ug/L		116	79 - 139
Xylenes, Total	ND		150	169.8		ug/L		113	74 - 141
Methyl tert-butyl ether	ND		50.0	60.35		ug/L		121	66 - 141

Surrogate	MS %Recovery	MS Qualifier	MS Limits
1,2-Dichloroethane-d4 (Surr)	106		70 - 130
4-Bromofluorobenzene (Surr)	96		70 - 130
Dibromofluoromethane (Surr)	99		70 - 130
Toluene-d8 (Surr)	96		70 - 130

Lab Sample ID: 490-81034-2 MSD

Matrix: Ground Water

Analysis Batch: 258445

Client Sample ID: MW-5

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	57.87		ug/L		116	75 - 133	2	17
Toluene	ND		50.0	58.95		ug/L		118	75 - 136	1	15
Ethylbenzene	ND		50.0	58.71		ug/L		117	79 - 139	1	15
Xylenes, Total	ND		150	172.6		ug/L		115	74 - 141	2	15
Methyl tert-butyl ether	ND		50.0	63.41		ug/L		127	66 - 141	5	16

Surrogate	MSD %Recovery	MSD Qualifier	MSD Limits
1,2-Dichloroethane-d4 (Surr)	108		70 - 130
4-Bromofluorobenzene (Surr)	96		70 - 130
Dibromofluoromethane (Surr)	100		70 - 130
Toluene-d8 (Surr)	97		70 - 130

Lab Sample ID: MB 490-258611/10

Matrix: Water

Analysis Batch: 258611

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			06/23/15 16:17	1
Toluene	ND		1.00		ug/L			06/23/15 16:17	1
Ethylbenzene	ND		1.00		ug/L			06/23/15 16:17	1
Xylenes, Total	ND		3.00		ug/L			06/23/15 16:17	1
Methyl tert-butyl ether	ND		1.00		ug/L			06/23/15 16:17	1

Surrogate	MB %Recovery	MB Qualifier	MB Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		70 - 130		06/23/15 16:17	1
4-Bromofluorobenzene (Surr)	98		70 - 130		06/23/15 16:17	1
Dibromofluoromethane (Surr)	99		70 - 130		06/23/15 16:17	1
Toluene-d8 (Surr)	97		70 - 130		06/23/15 16:17	1

TestAmerica Nashville

QC Sample Results

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

TestAmerica Job ID: 490-81034-1
SDG: 304 Columbia St., Brooklyn, NY

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

Lab Sample ID: LCS 490-258611/3

Matrix: Water

Analysis Batch: 258611

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	56.55		ug/L		113	80 - 121
Toluene	50.0	57.53		ug/L		115	80 - 126
Ethylbenzene	50.0	56.91		ug/L		114	80 - 130
Xylenes, Total	150	168.0		ug/L		112	80 - 132
Methyl tert-butyl ether	50.0	60.17		ug/L		120	72 - 133

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	108		70 - 130
4-Bromofluorobenzene (Surr)	96		70 - 130
Dibromofluoromethane (Surr)	100		70 - 130
Toluene-d8 (Surr)	97		70 - 130

Lab Sample ID: LCSD 490-258611/4

Matrix: Water

Analysis Batch: 258611

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	50.0	56.77		ug/L		114	80 - 121	0	17
Toluene	50.0	57.72		ug/L		115	80 - 126	0	15
Ethylbenzene	50.0	57.22		ug/L		114	80 - 130	1	15
Xylenes, Total	150	169.7		ug/L		113	80 - 132	1	15
Methyl tert-butyl ether	50.0	60.40		ug/L		121	72 - 133	0	16

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	108		70 - 130
4-Bromofluorobenzene (Surr)	96		70 - 130
Dibromofluoromethane (Surr)	100		70 - 130
Toluene-d8 (Surr)	97		70 - 130

Lab Sample ID: 490-81052-B-2 MS

Matrix: Water

Analysis Batch: 258611

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	ND		50.0	55.18		ug/L		110	75 - 133
Toluene	ND		50.0	56.00		ug/L		112	75 - 136
Ethylbenzene	ND		50.0	55.82		ug/L		112	79 - 139
Xylenes, Total	ND		150	163.3		ug/L		109	74 - 141
Methyl tert-butyl ether	ND		50.0	52.04		ug/L		104	66 - 141

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	105		70 - 130
4-Bromofluorobenzene (Surr)	97		70 - 130
Dibromofluoromethane (Surr)	100		70 - 130
Toluene-d8 (Surr)	97		70 - 130

TestAmerica Nashville

QC Sample Results

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

TestAmerica Job ID: 490-81034-1
SDG: 304 Columbia St., Brooklyn, NY

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

Lab Sample ID: 490-81052-C-2 MSD

Matrix: Water

Analysis Batch: 258611

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	ND		50.0	57.00		ug/L		114	75 - 133	3	17
Toluene	ND		50.0	57.62		ug/L		115	75 - 136	3	15
Ethylbenzene	ND		50.0	57.26		ug/L		115	79 - 139	3	15
Xylenes, Total	ND		150	169.6		ug/L		113	74 - 141	4	15
Methyl tert-butyl ether	ND		50.0	57.41		ug/L		115	66 - 141	10	16

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	109		70 - 130
4-Bromofluorobenzene (Surr)	96		70 - 130
Dibromofluoromethane (Surr)	101		70 - 130
Toluene-d8 (Surr)	96		70 - 130

QC Association Summary

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

TestAmerica Job ID: 490-81034-1
SDG: 304 Columbia St., Brooklyn, NY

GC/MS VOA

Analysis Batch: 258445

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-81034-1	MW-3	Total/NA	Ground Water	8260C	
490-81034-2	MW-5	Total/NA	Ground Water	8260C	
490-81034-2 MS	MW-5	Total/NA	Ground Water	8260C	
490-81034-2 MSD	MW-5	Total/NA	Ground Water	8260C	
490-81034-3	MW-8A	Total/NA	Ground Water	8260C	
490-81034-4	MW-10	Total/NA	Ground Water	8260C	
490-81034-5	MW-11	Total/NA	Ground Water	8260C	
490-81034-6	MW-12	Total/NA	Ground Water	8260C	
490-81034-7	MW-14	Total/NA	Ground Water	8260C	
490-81034-8	MW-15	Total/NA	Ground Water	8260C	
490-81034-9	MW-16	Total/NA	Ground Water	8260C	
490-81034-10	MW-17	Total/NA	Ground Water	8260C	
490-81034-11	MW-18	Total/NA	Ground Water	8260C	
490-81034-12	MW-19	Total/NA	Ground Water	8260C	
490-81034-13	MW-20	Total/NA	Ground Water	8260C	
490-81034-14	Trip Blank	Total/NA	Water	8260C	
LCS 490-258445/3	Lab Control Sample	Total/NA	Water	8260C	
LCSD 490-258445/4	Lab Control Sample Dup	Total/NA	Water	8260C	
MB 490-258445/7	Method Blank	Total/NA	Water	8260C	

Analysis Batch: 258611

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-81034-3	MW-8A	Total/NA	Ground Water	8260C	
490-81034-4	MW-10	Total/NA	Ground Water	8260C	
490-81034-5	MW-11	Total/NA	Ground Water	8260C	
490-81034-6	MW-12	Total/NA	Ground Water	8260C	
490-81034-9	MW-16	Total/NA	Ground Water	8260C	
490-81034-10	MW-17	Total/NA	Ground Water	8260C	
490-81034-11	MW-18	Total/NA	Ground Water	8260C	
490-81034-12	MW-19	Total/NA	Ground Water	8260C	
490-81034-13	MW-20	Total/NA	Ground Water	8260C	
490-81052-B-2 MS	Matrix Spike	Total/NA	Water	8260C	
490-81052-C-2 MSD	Matrix Spike Duplicate	Total/NA	Water	8260C	
LCS 490-258611/3	Lab Control Sample	Total/NA	Water	8260C	
LCSD 490-258611/4	Lab Control Sample Dup	Total/NA	Water	8260C	
MB 490-258611/10	Method Blank	Total/NA	Water	8260C	

Lab Chronicle

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

TestAmerica Job ID: 490-81034-1
SDG: 304 Columbia St., Brooklyn, NY

Client Sample ID: MW-3

Date Collected: 06/18/15 11:15

Date Received: 06/19/15 09:00

Lab Sample ID: 490-81034-1

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	10 mL	10 mL	258445	06/23/15 04:05	PS	TAL NSH

Client Sample ID: MW-5

Date Collected: 06/18/15 10:25

Date Received: 06/19/15 09:00

Lab Sample ID: 490-81034-2

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	10 mL	10 mL	258445	06/23/15 04:31	PS	TAL NSH

Client Sample ID: MW-8A

Date Collected: 06/18/15 11:40

Date Received: 06/19/15 09:00

Lab Sample ID: 490-81034-3

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	10 mL	10 mL	258445	06/23/15 04:57	PS	TAL NSH
Total/NA	Analysis	8260C		50	10 mL	10 mL	258611	06/23/15 21:06	RP	TAL NSH

Client Sample ID: MW-10

Date Collected: 06/18/15 11:15

Date Received: 06/19/15 09:00

Lab Sample ID: 490-81034-4

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	10 mL	10 mL	258445	06/23/15 05:23	PS	TAL NSH
Total/NA	Analysis	8260C		50	10 mL	10 mL	258611	06/23/15 21:33	RP	TAL NSH

Client Sample ID: MW-11

Date Collected: 06/18/15 09:45

Date Received: 06/19/15 09:00

Lab Sample ID: 490-81034-5

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	10 mL	10 mL	258445	06/23/15 05:50	PS	TAL NSH
Total/NA	Analysis	8260C		10	10 mL	10 mL	258611	06/23/15 18:55	RP	TAL NSH

Client Sample ID: MW-12

Date Collected: 06/18/15 10:20

Date Received: 06/19/15 09:00

Lab Sample ID: 490-81034-6

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	10 mL	10 mL	258445	06/23/15 06:16	PS	TAL NSH
Total/NA	Analysis	8260C		1	10 mL	10 mL	258611	06/23/15 17:10	RP	TAL NSH

TestAmerica Nashville

Lab Chronicle

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

TestAmerica Job ID: 490-81034-1
SDG: 304 Columbia St., Brooklyn, NY

Client Sample ID: MW-14

Date Collected: 06/18/15 09:05

Date Received: 06/19/15 09:00

Lab Sample ID: 490-81034-7

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	10 mL	10 mL	258445	06/23/15 06:42	PS	TAL NSH

Client Sample ID: MW-15

Date Collected: 06/18/15 10:50

Date Received: 06/19/15 09:00

Lab Sample ID: 490-81034-8

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	10 mL	10 mL	258445	06/23/15 07:09	PS	TAL NSH

Client Sample ID: MW-16

Date Collected: 06/18/15 10:00

Date Received: 06/19/15 09:00

Lab Sample ID: 490-81034-9

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	10 mL	10 mL	258445	06/23/15 07:35	PS	TAL NSH
Total/NA	Analysis	8260C		10	10 mL	10 mL	258611	06/23/15 19:21	RP	TAL NSH

Client Sample ID: MW-17

Date Collected: 06/18/15 08:58

Date Received: 06/19/15 09:00

Lab Sample ID: 490-81034-10

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	10 mL	10 mL	258445	06/23/15 08:01	PS	TAL NSH
Total/NA	Analysis	8260C		20	10 mL	10 mL	258611	06/23/15 20:14	RP	TAL NSH

Client Sample ID: MW-18

Date Collected: 06/18/15 09:35

Date Received: 06/19/15 09:00

Lab Sample ID: 490-81034-11

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	10 mL	10 mL	258445	06/23/15 08:28	PS	TAL NSH
Total/NA	Analysis	8260C		10	10 mL	10 mL	258611	06/23/15 19:48	RP	TAL NSH

Client Sample ID: MW-19

Date Collected: 06/18/15 10:00

Date Received: 06/19/15 09:00

Lab Sample ID: 490-81034-12

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	10 mL	10 mL	258445	06/23/15 08:54	PS	TAL NSH
Total/NA	Analysis	8260C		1	10 mL	10 mL	258611	06/23/15 18:03	RP	TAL NSH

TestAmerica Nashville

Lab Chronicle

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

TestAmerica Job ID: 490-81034-1
SDG: 304 Columbia St., Brooklyn, NY

Client Sample ID: MW-20

Date Collected: 06/18/15 10:10

Date Received: 06/19/15 09:00

Lab Sample ID: 490-81034-13

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	10 mL	10 mL	258445	06/23/15 09:20	PS	TAL NSH
Total/NA	Analysis	8260C		1	10 mL	10 mL	258611	06/23/15 18:29	RP	TAL NSH

Client Sample ID: Trip Blank

Date Collected: 06/18/15 01:00

Date Received: 06/19/15 09:00

Lab Sample ID: 490-81034-14

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	10 mL	10 mL	258445	06/23/15 03:38	PS	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: EM 17-EMW

TestAmerica Job ID: 490-81034-1
SDG: 304 Columbia St., Brooklyn, NY

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by 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: EM 17-EMW

TestAmerica Job ID: 490-81034-1
SDG: 304 Columbia St., Brooklyn, NY

Laboratory: TestAmerica Nashville

The certifications listed below are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
New York	NELAP	2	11342	03-31-16



COOLER RECEIPT FORM

Cooler Received/Opened On 6/19/2015 @ 900

1. Tracking # 0800 (last 4 digits, FedEx)

Courier: Fed-ex IR Gun ID 17960358

2. Temperature of rep. sample or temp blank when opened: 2.7 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 (initial) BZA

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 (initial) MDM

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

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

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

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

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

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

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

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

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

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

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

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

THE LEADER IN ENVIRONMENTAL TESTING

Consultant Name: Groundwater & Environmental Services Inc

Address: 89 Cabot Court

City/State/Zip: Hauppauge, NY 11788

ExxonMobil Project Mgr: Laurie McCarthy
Consultant Project Mgr: Dennis Shin

Consultant Project Mgr: Deann Shin

Consultant Telephone Number:

Sampler Name: (Print)

Sampler Signature:

Fax No.:

Singapore

TA Project #: 49001306

PO#:

ExxonMobil

Loc: 490
81034

6/29/2015

Page 1 of 2

Sample ID or Field ID	Date Sampled	Time Sampled	No. of Containers Shipped	Grab	Composite	Field Filtered	Preservative							Matrix			Analyze For:							
							Methanol	Sodium Bisulfate	HCl (Blue Label)	NaOH (Orange Label)	H ₂ SO ₄ Plastic (Yellow Label)	H ₂ SO ₄ Glass (Yellow Label)	HNO ₃ (Red Label)	None (Black Label)	Groundwater	Wastewater		Drinking Water	Sludge	Soil	Other (specify):			
MW-3	6/18/15	11:15	3	X				X					NB							RUSH TAT (Pre-Schedule) *	TAT request (in Bus. Days)	Fax Results (yes or no)	Due Date of Report	
MW-5		10:25																						
MW-8A		11:40																						
MW-10		11:15																						
MW-11		9:45																						
MW-12		10:20																						
MW-14		9:05																						
MW-15		10:50																						
MW-16		10:00																						
MW-17		8:58																						
Comments/Special Instructions: email EQEDD package to: gss@equisonline.com ; LILABS@gsonline.com TA Project #: ExxonMobil projects only (bill directly to GSS: 49001306) EOD name: EM17-EMW-14 b report # .1810.EQEDD.zip																								
Laboratory Comments: Temperature Upon Receipt: 27C Sample Containers Intact? Y VOCs Free of Headspace? N QC Deliverables (please circle one) Level 2 Level 3 Level 4 Other * It will be the responsibility of ExxonMobil or its consultant to notify the TestAmerica Project Manager by phone or fax that a rush sample will be submitted. TA Project Manager: Date:																								
Requisitioned by: [Signature]		Date: 6/18/15	Time: 1700	Received By: FED EX		Date: 6/18/15	Time: 1700																	
Requisitioned by: [Signature]		Date: 6/18/15	Time: 1700	Received by TestAmerica: [Signature]		Date: 6/19/15	Time: 0900																	

Login Sample Receipt Checklist

Client: Groundwater & Environmental Services Inc

Job Number: 490-81034-1
SDG Number: 304 Columbia St., Brooklyn, NY

Login Number: 81034

List Number: 1

Creator: McBride, Mike

List Source: TestAmerica Nashville

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ 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	2.7
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 $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	